

DAFTAR PUSTAKA

- Acheampong, R. A., Agyemang, F. S. K., & Abdul-Fatawu, M. (2017). Quantifying the spatio-temporal patterns of settlement growth in a metropolitan region of Ghana. *GeoJournal*, 82(4), 823–840. <https://doi.org/10.1007/s10708-016-9719-x>
- Agrawal, G., Sarup, J., & Bhopal, M. (2011). Comparision of QUAC and FLAASH atmospheric correction modules on EO-1 Hyperion data of Sanchi. *Int. J. Adv. Eng. Sci. Technol*, 4, 178–186.
- Ai, Y. X., & Lu, S. J. (2020). Evaluation Strategy for Regional Ecological Security Based on GIS. *Proceedings - 2020 5th International Conference on Smart Grid and Electrical Automation, ICSGEA 2020*, 428–432. <https://doi.org/10.1109/ICSGEA51094.2020.00098>
- Akbar, D., Nindya Utami, S. N., & Hernandi Virgianto, R. (2021). Analisis Hubungan Kekeringan Meteorologis Dengan Kekeringan Agrikultural Di Pulau Lombok Menggunakan Korelasi Pearson. *Delta: Jurnal Ilmiah Pendidikan Matematika*, 9(1), 133. <https://doi.org/10.31941/delta.v9i1.1275>
- Al-Aomar, R. (2010). A combined ahp-entropy method for deriving subjective and objective criteria weights. *International Journal of Industrial Engineering : Theory Applications and Practice*, 17(1), 12–24.
- Albalawi, E. K., & Kumar, L. (2013). Using remote sensing technology to detect, model and map desertification: A review. *Journal of Food, Agriculture and Environment*, 11(2), 791–797.
- Alberti, M. (2005). The effects of urban patterns on ecosystem function. *International Regional Science Review*, 28(2), 168–192. <https://doi.org/10.1177/0160017605275160>
- Alberti, M. (2008). *Advances in urban ecology: Integrating humans and ecological processes in urban ecosystems*. Springer. <https://doi.org/10.1007/978-0-387-75510-6>
- Alberti, M., Marzluff, J. M., Shulenberger, E., Bradley, G., Ryan, C., & Zumbrunnen, C. (2003). Integrating human into ecology: Opportunities and challenges for studying urban ecosystems. *BioScience*, 53(12), 1169–1179. [https://doi.org/10.1641/0006-3568\(2003\)053\[1169:IHIEOA\]2.0.CO;2](https://doi.org/10.1641/0006-3568(2003)053[1169:IHIEOA]2.0.CO;2)
- Alinda, Ayu, P., Nurul, C., & Destriana, N. (2015). The detection of urban open space at Jakarta , Bogor , Depok , and Tangerang – Indonesia by using remote sensing technique for urban ecology analysis. *Procedia Environmental Sciences*, 24, 87–94. <https://doi.org/10.1016/j.proenv.2015.03.012>
- Almutairi, B., El, A., Belaid, M. A., & Musa, N. (2013). Comparative Study of SAVI and NDVI Vegetation Indices in Sulaibiya Area (Kuwait) Using Worldview Satellite Imagery. *International Journal of Geosceinces and Geomatics*, 1(2), 50–53.
- Amiri, M., Pourghasemi, H. R., Arabameri, A., Vazirzadeh, A., Yousefi, H., & Kafaei, S. (2019). 16 - Prioritization of Flood Inundation of Maharloo Watershed in Iran Using Morphometric Parameters Analysis and TOPSIS

- MCDM Model. In H. R. Pourghasemi & C. B. T.-S. M. in G. I. S. and R. for E. and E. S. Gokceoglu (Eds.), *Spatial Modeling in GIS and R for Earth and Environmental Sciences* (pp. 371–390). Elsevier.
<https://doi.org/https://doi.org/10.1016/B978-0-12-815226-3.00016-8>
- Amri, S. N., Adrianto, L., Bengen, D. G., & Kurnia, R. (2017). Spatial Projection Of Land Use And Its Connection With Urban Ecology Spatial Planning In The Coastal City , Case Study In Makassar City , Indonesia. *International Journal of Remote Sensing and Earth Sciences*, 14(2), 95–110.
- Anderson, G. P., Felde, G. W., Hoke, M. L., Ratkowski, A. J., Cooley, T. W., Jr., J. H. C., Gardner, J. A., Adler-Golden, S. M., Matthew, M. W., Berk, A., Bernstein, L. S., Acharya, P. K., Miller, D. P., & Lewis, P. E. (2002). MODTRAN4-based atmospheric correction algorithm: FLAASH (fast line-of-sight atmospheric analysis of spectral hypercubes). *Proc.SPIE*, 4725.
<https://doi.org/10.1117/12.478737>
- Andreas, H., Abidin, H. Z., Gumilar, I., Sidiq, T. P., & Yuwono, B. (2017). Adaptation and mitigation of land subsidence in Semarang. *AIP Conference Proceedings*, 1857(January 2018). <https://doi.org/10.1063/1.4987088>
- Angel, S., Parent, J., Civco, D. L., Blei, A., & Potere, D. (2011). The dimensions of global urban expansion: Estimates and projections for all countries, 2000–2050. *Progress in Planning*, 75(2), 53–107.
<https://doi.org/10.1016/j.progress.2011.04.001>
- Aplin, P. (2004). Remote sensing as a means of determining ecological conditions. *Bioscience*, 17(7), 444–449.
<https://doi.org/10.1191/030913305pp437pr>
- Apostolopoulos, D. N., & Nikolakopoulos, K. G. (2022). SPOT vs Landsat satellite images for the evolution of the north Peloponnese coastline, Greece. *Regional Studies in Marine Science*, 56, 102691.
<https://doi.org/10.1016/j.rsma.2022.102691>
- Arai, E., Shimabukuro, Y. E., Pereira, G., & Vijaykumar, N. L. (2011). A multi-resolution multi-temporal technique for detecting and mapping deforestation in the Brazilian Amazon rainforest. *Remote Sensing*, 3(9), 1943–1956.
<https://doi.org/10.3390/rs3091943>
- Ardiansyah, A., Hernina, R., Suseno, W., Zulkarnain, F., Yanidar, R., & Rokhmatuloh, R. (2018). Percent of Building Density (PBD) of Urban Environment: A multi-index Approach Based Study in DKI Jakarta Province. *Indonesian Journal of Geography*, 50(2), 154.
<https://doi.org/10.22146/ijg.36113>
- Ash, N. J., Butler, C. D., Callicott, J. B., Carpenter, S. R., Cropper, A., Daily, G. C., Groot, R. De, Dietz, T., May, R. M., Mccalla, A. F., Mooney, H., Nelson, G. C., Prescott-allen, R., Reid, W. V, Watson, R. T., Wilbanks, T. J., Williams, M., & Foley, J. (2006). Ekosistem dan Kesejahteraan Manusia: Suatu Kerangka Pikir untuk Penilaian. *Laporan Kelompok Kerja Conceptual Framework Millennium Ecosystem Assessment*.
- Astuti, K. D., Sariffuddin, S., & Pangi, P. (2020). Integrasi Ruang Biru Pada Rencana Tata Ruang Wilayah Sebagai Instrumen Mitigasi Bencana Banjir di Kota Semarang. *Tataloka*, 22(2), 236–248.

- <https://doi.org/10.14710/tataloka.22.2.236-248>
- Averill M. Law, W. D. K. (1991). Simulation modeling and analysis. In *McGrawHill New York LÕEcuyer P Giroux N Glynn PW* (Vol. 2).
<https://doi.org/10.1145/1667072.1667074>
- B Sasmito, A Suprayogi, M Awaluddin, S P Darlina, N D Andani, I. O. P. K. (2019). Spatial Model of Micro Climate Assessment and Recommendation of Mitigation In Semarang City With Remote Sensing Technology Spatial Model of Micro Climate Assessment and Recommendation of Mitigation In Semarang City With Remote Sensing Technology. *The 3rd Geoplanning-International Conference on Geomatics and Planning*.
<https://doi.org/10.1088/1755-1315/313/1/012037>
- Badan Lingkungan Hidup, Y. (2016). *Profil Keanekaragaman Hayati Daerah Istimew Yogyakarta Tahun 2016*.
- Bai, Xiaorui, & Tang, J. (2010a). Ecological Security Assessment of Tianjin by PSR Model. *Procedia Environmental Sciences*, 2(5), 881–887.
<https://doi.org/10.1016/j.proenv.2010.10.099>
- Bai, Xiaorui, & Tang, J. (2010b). Ecological Security Assessment of Tianjin by PSR Model. *Procedia Environmental Sciences*, 2, 881–887.
<https://doi.org/10.1016/J.PROENV.2010.10.099>
- Bai, Xuefeng, & Xu, H. (2023). The Egyptian Journal of Remote Sensing and Space Sciences Understanding spatial growth of the old city of Nanjing during 1850 – 2020 based on historical maps and Landsat data. *The Egyptian Journal of Remote Sensing and Space Sciences*, 26(1), 25–41.
<https://doi.org/10.1016/j.ejrs.2022.12.005>
- Baker, L. A., Hope, D., Xu, Y., Edmonds, J., & Lauver, L. (2001). Nitrogen balance for the Central Arizona-Phoenix (CAP) ecosystem. *Ecosystems*, 4(6), 582–602. <https://doi.org/10.1007/s10021-001-0031-2>
- Baldwin, D. A. (2018). The concept of security. *National and International Security*, 19, 41–62. <https://doi.org/10.5937/vojdelo1607068k>
- Banaszak-Cibicka, W., & Dylewski, Ł. (2021). Species and functional diversity — A better understanding of the impact of urbanization on bee communities. *Science of The Total Environment*, 774, 145729.
<https://doi.org/https://doi.org/10.1016/j.scitotenv.2021.145729>
- Baraldi, A., & Parmiggiani, F. (1990). Urban Area Classification by Multispectral SPOT Images. *IEEE Transactions on Geoscience and Remote Sensing*, 28(4), 674–680. <https://doi.org/10.1109/TGRS.1990.572979>
- Bardhan, R., Kurisu, K., & Hanaki, K. (2015). Does compact urban forms relate to good quality of life in high density cities of India? Case of Kolkata. *Cities*, 48, 55–65. <https://doi.org/https://doi.org/10.1016/j.cities.2015.06.005>
- Behling, R., Bochow, M., Foerster, S., Roessner, S., & Kaufmann, H. (2015). Automated GIS-based derivation of urban ecological indicators using hyperspectral remote sensing and height information. *Ecological Indicators*, 48, 218–234. <https://doi.org/10.1016/j.ecolind.2014.08.003>
- Benz, U. C., Hofmann, P., Willhauck, G., Lingenfelder, I., & Heynen, M. (2004). Multi-resolution, object-oriented fuzzy analysis of remote sensing data for GIS-ready information. *ISPRS Journal of Photogrammetry and Remote*

- Sensing*, 58(3–4), 239–258.
<https://doi.org/10.1016/J.ISPRSJPRS.2003.10.002>
- Betts, M. G., Diamond, A. W., Forbes, G. J., Villard, M. A., & Gunn, J. S. (2006). The importance of spatial autocorrelation, extent and resolution in predicting forest bird occurrence. *Ecological Modelling*, 191(2), 197–224.
<https://doi.org/10.1016/j.ecolmodel.2005.04.027>
- Bhatti, S. S., & Tripathi, N. K. (2014). Built-up area extraction using Landsat 8 OLI imagery. *GIScience & Remote Sensing*, 51(4), 445–467.
<https://doi.org/10.1080/15481603.2014.939539>
- Bielecka, E. (2005). A dasymetric population density map of poland. *Proceedings of the 22nd International Cartographic Conference*, 48 22, 9–15.
- Blaschke J., T. and S. (2003). Defining landscape units through integrated morphometric characteristics. *Landscape Modelling: Digital Techniques for Landscape Architecture*, 104–113.
- Blaschke, T., & Strobl, J. (2015). What' s wrong with pixels ? Some recent developments interfacing remote sensing and GIS. *Interfacing Remote Sensing and GIS*, October, 1–7.
- Blaszczyński, J. S. (1997). Landform characterization with geographic information systems. *Photogrammetric Engineering and Remote Sensing*, 63(2), 183–191.
- Peraturan Kepala Badan Nasional Penanggulangan Bencana Nomor 02 Tahun 2012 Tentang Pedoman Umum Pengkajian Risiko Bencana, (2012).
- BNPB. (2021). Indeks risiko bencana Indonesia (IRBI) tahun 2020. *Bnpb*, 199.
https://inarisk.bnpb.go.id/pdf/BUKU_IRBI_2020_KP.pdf
- Boori, M. S., Choudhary, K., Paringer, R., & Kupriyanov, A. (2022). Using RS/GIS for spatiotemporal ecological vulnerability analysis based on DPSIR framework in the Republic of Tatarstan, Russia. *Ecological Informatics*, 67(November 2021), 101490. <https://doi.org/10.1016/j.ecoinf.2021.101490>
- Borst, R., & McCluskey, W. I. (2007). Comparative evaluation of the comparable sales method with geostatistical valuation models. *Pacific Rim Property Research Journal*, 13(1), 106–129.
<https://doi.org/10.1080/14445921.2007.11104225>
- BPBD, L. (2019). *Bab IV . Penyelenggaraan Urusan Pemerintahan Daerah pertumbuhan penduduk , degradasi lahan yang tinggi dan belum terintegrasinya tata ruang lahan . Angka IRBI 148 , 53 menunjukkan bahwa risiko bencana di DIY masih tinggi dan masih resiko bencana . Peningk* (Vol. 7).
- BPS Provinsi DI Yogyakarta/BPS-Statistics of DI Yogyakarta Province. (2021). *Indikator Kesejahteraan Rakyat Daerah Istimewa Yogyakarta 2021*.
- Buchori, I., & Sugiri, A. (2016). An empirical examination of sustainable metropolitan development in Semarang City, Indonesia. *Australian Planner*, 53(3), 163–177. <https://doi.org/10.1080/07293682.2016.1151905>
- Buchori, I., Sugiri, A., Maryono, M., Pramitasari, A., & Pamungkas, I. T. D. (2017). Theorizing spatial dynamics of metropolitan regions: A preliminary study in Java and Madura Islands, Indonesia. *Sustainable Cities and Society*, 35(August), 468–482. <https://doi.org/10.1016/j.scs.2017.08.022>

- Bundy, A., Gomez, C., & Cook, A. M. (2019). Scrupulous proxies: Defining and applying a rigorous framework for the selection and evaluation of a suite of ecological indicators. *Ecological Indicators*, 104(January), 737–754. <https://doi.org/10.1016/j.ecolind.2019.01.031>
- Buyantuyev, A., Wu, J., & Gries, C. (2007). Estimating vegetation cover in an urban environment based on Landsat ETM+ imagery: A case study in Phoenix, USA. *International Journal of Remote Sensing*, 28(2), 269–291. <https://doi.org/10.1080/01431160600658149>
- Caige, S. U. N. (2013). Analysis on Evaluation of Ecological Security Based on Remote Sensing Data. *International Conference on Remote Sensing, Environment and Transportation Engineering (RSETE 2013) Analysis, Rsete*, 116–119.
- Caige, S. U. N., Kaiwen, Z., Xulong, L. I. U., & Liang, X. I. E. (2011). *GIS Analysis of Ecological Security Evaluation in Xinfengjiang River Valley Using ALOS Data GIS Analysis of Ecological Security Evaluation in Xinfengjiang River Valley Using ALOS Data*. 12(2), 2018.
- Cao, B. shuai, Zou, C., & Gao, J. (2019). Review on Methodology and Application of Ecological Security Assesment. *Journal of Ecology and Rural Environment*, 35(8), 953–963.
- Cao, G., & Hou, P. (2016). *Assessment of the ecological security based on the ecological carrying capacity*. 7285–7288.
- Cao, Y., Kong, L., Zhang, L., & Ouyang, Z. (2021). The balance between economic development and ecosystem service value in the process of land urbanization: A case study of China's land urbanization from 2000 to 2015. *Land Use Policy*, 108, 105536. <https://doi.org/10.1016/j.landusepol.2021.105536>
- Casalegno, S., Anderson, K., Cox, D. T. C., Hancock, S., & Gaston, K. J. (2017). Ecological connectivity in the three-dimensional urban green volume using waveform airborne lidar. *Scientific Reports*, 7(February), 1–8. <https://doi.org/10.1038/srep45571>
- Case, H. U. A., Core, U., & Zone, T. (2021). Spatiotemporal Evolution Analysis of Habitat Quality under. *Land (Basel)*, 2073-445X, 167.
- Caves, R. W. (2005). *Encyclopedia of the City* (R. W. Caves (Ed.)). Routledge. <https://www.ptonline.com/articles/how-to-get-better-mfi-results>
- Cen, X., Wu, C., Xing, X., Fang, M., Garang, Z., & Wu, Y. (2015). Coupling intensive land use and landscape ecological security for urban sustainability: An integrated socioeconomic data and spatial metrics analysis in hangzhou city. *Sustainability (Switzerland)*, 7(2), 1459–1482. <https://doi.org/10.3390/su7021459>
- Chai, B., & Li, P. (2023). An ensemble method for monitoring land cover changes in urban areas using dense Landsat time series data. *ISPRS Journal of Photogrammetry and Remote Sensing*, 195(October 2022), 29–42. <https://doi.org/10.1016/j.isprsjprs.2022.11.002>
- Chai, J., Wang, Z., & Yu, C. (2021). Analysis for the interaction relationship between urbanization and ecological security: A case study in wuhan city circle of china. *International Journal of Environmental Research and Public*

- Health*, 18(24). <https://doi.org/10.3390/ijerph182413187>
- chakouri, M., Lhissou, R., El Harti, A., Maimouni, S., & Adiri, Z. (2020). Assessment of the image-based atmospheric correction of multispectral satellite images for geological mapping in arid and semi-arid regions. *Remote Sensing Applications: Society and Environment*, 20(August), 100420. <https://doi.org/10.1016/j.rsase.2020.100420>
- Chandler, T. J., & Nieuwolt, S. (1977). Tropical Climatology: An Introduction to the Climates of the Low Latitudes. *The Geographical Journal*, 143(3), 473. <https://doi.org/10.2307/634726>
- Chaplin-Kramer, R., Sharp, R. P., Mandle, L., Sim, S., Johnson, J., Butnar, I., Milà I Canals, L., Eichelberger, B. A., Ramler, I., Mueller, C., McLachlan, N., Yousefi, A., King, H., & Kareiva, P. M. (2015). Spatial patterns of agricultural expansion determine impacts on biodiversity and carbon storage. *Proceedings of the National Academy of Sciences of the United States of America*, 112(24), 7402–7407. <https://doi.org/10.1073/pnas.1406485112>
- Chaudhuri, S., & Kumar, A. (2020). Evaluating the contribution of urban ecosystem services in regulating thermal comfort. *Spatial Information Research*. <https://doi.org/10.1007/s41324-020-00336-8>
- Chavez, P. S. (1996). Image-Based Atmospheric Corrections - Revisited and Improved. *Photogrammetric Engineering and Remote Sensing*, 62, 1025–1036.
- Chen, D., Stow, D., & Getis, A. (2002). Multi-resolution classification framework for improving land use/cover mapping. In S. J. Walsh & K. A. Crews-Meyer (Eds.), *Linking People, Place, and Policy* (Issue January). Springer US. <https://doi.org/10.1007/978-1-4615-0985-1>
- Chen, J., Gao, J., & Yuan, F. (2016). Growth Type and Functional Trajectories: An Empirical Study of Urban Expansion in Nanjing, China. *PLoS ONE*, 11(2), 1–18. <https://doi.org/10.1371/journal.pone.0148389>
- Chen, L.-D., Lu, Y.-H., Tian, H.-Y., & Shi, Q. (2007). Principles and methodology for ecological rehabilitation and security pattern design in key project construction. *Chinese Journal of Applied Ecology*, 18(3), 674–680. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-34248684147&partnerID=40&md5=df22857efa9e58fc8195e398e359f7ff>
- Chen, L., Jing, Y., & Sun, R. (2018). Urban eco-security pattern construction: Targets, principles and basic framework. *Acta Ecologica Sinica*, 38(12), 4101–4108 Urban. <https://doi.org/10.5846/stxb201802270395s>
- Chen, M., Liu, W., & Tao, X. (2013). Evolution and assessment on China's urbanization 1960-2010: Under-urbanization or over-urbanization? *Habitat International*, 38(1), 25–33. <https://doi.org/10.1016/j.habitatint.2012.09.007>
- Chen, X., Xu, D., Fadelelseed, S., & Li, L. (2019). Spatiotemporal analysis and control of landscape eco-security at the urban fringe in shrinking resource cities: A case study in daqing, China. *International Journal of Environmental Research and Public Health*, 16(23). <https://doi.org/10.3390/ijerph16234640>
- Chen, Zhaoya, Ma, L., Guo, F., & Chen, Y. (2020). Internet of Things Technology in Ecological Security Assessment System of Intelligent Land. *IEEE Access*, 8, 99772–99782.

- <https://doi.org/10.1109/ACCESS.2020.2995259>
- Chen, Ziyue. (2017). *The Application of Airborne Lidar Data in the Modelling of 3D Urban Landscape Ecology*. Cambridge Scholars Publishing.
<https://doi.org/10.15713/ins.mmj.3>
- Cheng, H., Zhu, L., & Meng, J. (2021). Fuzzy evaluation of the ecological security of land resources in mainland China based on the Pressure-State-Response framework. *Science of The Total Environment*, 804, 150053.
<https://doi.org/10.1016/j.scitotenv.2021.150053>
- Cheng, H., Zhu, L., & Meng, J. (2022). Fuzzy evaluation of the ecological security of land resources in mainland China based on the Pressure-State-Response framework. *Science of the Total Environment*, 804, 150053.
<https://doi.org/10.1016/j.scitotenv.2021.150053>
- Cherry, W. A. (1995). What is ecological security? *Peace Research*, 27(2), 87–89.
- Childers, D. L. (2015). Richard T. T. Forman. Urban Ecology—Science of Cities . *Society & Natural Resources*, 28(6), 686–687.
<https://doi.org/10.1080/08941920.2015.1029862>
- Childers, D. L., Pickett, S. T. A., Grove, J. M., Ogden, L., & Whitmer, A. (2014). Advancing urban sustainability theory and action: Challenges and opportunities. *Landscape and Urban Planning*, 125, 320–328.
<https://doi.org/10.1016/J.LANDURBPLAN.2014.01.022>
- Chu, L., Sun, T., Wang, T., Li, Z., & Cai, C. (2018). Evolution and prediction of landscape pattern and habitat quality based on CA-Markov and InVEST model in hubei section of Three Gorges Reservoir Area (TGRA). *Sustainability (Switzerland)*, 10(11). <https://doi.org/10.3390/su10113854>
- Chu, X., Deng, X., Jin, G., Wang, Z., & Li, Z. (2017). Ecological security assessment based on ecological footprint approach in Beijing-Tianjin-Hebei region, China. *Physics and Chemistry of the Earth, Parts A/B/C*, 101, 43–51.
<https://doi.org/10.1016/J.PCE.2017.05.001>
- Clarke, K. C., Couclelis, H., & Clarke, K. C. (2005). The role of spatial metrics in the analysis and modeling of urban land use change. *Computers, Environment and Urban Systems*, 29(4), 369–399.
<https://doi.org/10.1016/j.compenvurbsys.2003.12.001>
- Cohen, W. B., & Samuel N, G. (2004). Landsat ' s Role in Ecological Applications of Remote Sensing. *Bioscience*, 54(6), 535–545.
- Collins, J. P., Kinzig, A., Grimm, N. B., Fagan, W. F., Hope, D., Wu, J., Borer, E. T., Collins, J. P., Kinzig, A., Grimm, N. B., Fagan, W. R., Hope, D., Wu, J., & Borer, E. T. (2000). special problems for the development and testing of ecological theory A New Urban Ecology special problems for the development and testing of ecological theory. *American Scientist*, 88(5).
<https://www.jstor.org/stable/27858089>
- Congedo, L., & Macchi, S. (2015). The demographic dimension of climate change vulnerability: Exploring the relation between population growth and urban sprawl in Dar es Salaam. *Current Opinion in Environmental Sustainability*, 13, 1–10. <https://doi.org/10.1016/j.cosust.2014.12.002>
- Congreve, A., & Cross, I. D. (2019). Integrating ecosystem services into environmental decision-making. In *Journal of Applied Ecology* (Vol. 56,

- Issue 3, pp. 494–499). <https://doi.org/10.1111/1365-2664.13341>
- Conquest, L. L. (1983). Assessing the statistical effectiveness of ecological experiments: utility of the coefficient of variation. *International Journal of Environmental Studies*, 20(3–4), 209–221.
<https://doi.org/10.1080/00207238308710037>
- Cook, C. N., Hockings, M., & Carter, R. W. (Bill). (2010). Conservation in the dark? The information used to support management decisions. *Frontiers in Ecology and the Environment*, 8(4), 181–186.
<https://doi.org/https://doi.org/10.1890/090020>
- Costanza, R., D'Arge, R., De Groot, R., Farber, S., Grasso, M., Hannon, B., Limburg, K., Naeem, S., O'Neill, R. V., Paruelo, J., Raskin, R. G., Sutton, P., & Van Den Belt, M. (1997). The value of the world's ecosystem services and natural capital. *Nature*, 387(6630), 253–260.
<https://doi.org/10.1038/387253a0>
- Cotter, M., Häuser, I., Harich, F. K., He, P., Sauerborn, J., Treydte, A. C., Martin, K., & Cadisch, G. (2017). Biodiversity and ecosystem services—A case study for the assessment of multiple species and functional diversity levels in a cultural landscape. *Ecological Indicators*, 75, 111–117.
<https://doi.org/10.1016/J.ECOLIND.2016.11.038>
- Cui, Xuegang, Fang, C., Liu, H., & Liu, X. (2019). Assessing sustainability of urbanization by a coordinated development index for an Urbanization-Resources-Environment complex system: A case study of Jing-Jin-Ji region, China. *Ecological Indicators*, 96(August 2018), 383–391.
<https://doi.org/10.1016/j.ecolind.2018.09.009>
- Cui, Xufeng, Deng, W., Yang, J., Huang, W., & de Vries, W. T. (2022). Construction and optimization of ecological security patterns based on social equity perspective: A case study in Wuhan, China. *Ecological Indicators*, 136, 108714. <https://doi.org/10.1016/j.ecolind.2022.108714>
- Czaplewski, R. L., & Patterson, P. L. (2003). Classification accuracy for stratification with remotely sensed data. *Forest Science*, 49(3), 402–408.
- Dadashpoor, H., Azizi, P., & Moghadasi, M. (2019a). Analyzing spatial patterns, driving forces and predicting future growth scenarios for supporting sustainable urban growth: Evidence from Tabriz metropolitan area, Iran. *Sustainable Cities and Society*, 47(April 2018), 101502.
<https://doi.org/10.1016/j.scs.2019.101502>
- Dadashpoor, H., Azizi, P., & Moghadasi, M. (2019b). Land use change, urbanization, and change in landscape pattern in a metropolitan area. *Science of the Total Environment*, 655, 707–719.
<https://doi.org/10.1016/j.scitotenv.2018.11.267>
- Dai, L., Li, S., Lewis, B. J., Wu, J., Yu, D., Zhou, W., Zhou, L., & Wu, S. (2018). The influence of land use change on the spatial–temporal variability of habitat quality between 1990 and 2010 in Northeast China. *Journal of Forestry Research*, July. <https://doi.org/10.1007/s11676-018-0771-x>
- Dalby, S. (2007). Ecology, Security, and Change in the Anthropocene. *Brown Journal of World Affairs*, 13(2), 155–164.
<http://search.ebscohost.com/login.aspx?direct=true&db=bth&AN=25431108>

- &site=ehost-live
- Daoud, J. I. (2018). Multicollinearity and Regression Analysis. *Journal of Physics: Conference Series*, 949(1). <https://doi.org/10.1088/1742-6596/949/1/012009>
- Darwish, A., Leukert, K., & Reinhardt, W. (2003). Urban Land-Cover Classification : An Object Based Perspective. *2nd GRSSLSPRS Joint Workshop on "Data Fusion and Remote Sensing over Urban Areas*, 2–6.
- Das, M., & Das, A. (2022). Indicator based assessment of urban ecological security pattern in Kolkata metropolitan area, India. *Geocarto International*, 0(0), 1–25. <https://doi.org/10.1080/10106049.2022.2120637>
- Decker, E. H., Elliott, S., Smith, F. A., Blake, D. R., & Rowland, F. S. (2000). Energy and material flow through the urban ecosystem. *Annual Review of Ecology and Systematics*, 26, 685–740. <https://doi.org/10.1146/annurev.energy.25.1.685>
- Deng, C., & Wu, C. (2012). BCI: A biophysical composition index for remote sensing of urban environments. *Remote Sensing of Environment*, 127, 247–259. <https://doi.org/10.1016/j.rse.2012.09.009>
- Deng, Y., Wu, C., Li, M., & Chen, R. (2015). RNDSI: A ratio normalized difference soil index for remote sensing of urban/suburban environments. *International Journal of Applied Earth Observation and Geoinformation*, 39, 40–48. <https://doi.org/10.1016/j.jag.2015.02.010>
- Deuermeyer, B. L., & Curry, G. L. (1992). Extending resources to multiple busy states in discrete simulation. *SIMULATION*, 58(1), 17–21. <https://doi.org/10.1177/003754979205800104>
- Dewi, S. P., & Kurniati, R. (2022). Revealing Cost and Benefit of Vegetative Approach to Mitigate Riverbank Landslide in Semarang Coastal Villages. *IOP Conference Series: Earth and Environmental Science*, 1082(1). <https://doi.org/10.1088/1755-1315/1082/1/012030>
- Dinda, S., Das, K., Chatterjee, N. Das, & Ghosh, S. (2019). Integration of GIS and statistical approach in mapping of urban sprawl and predicting future growth in Midnapore town, India. *Modeling Earth Systems and Environment*, 5(1), 331–352. <https://doi.org/10.1007/s40808-018-0536-8>
- Dinku, T., Funk, C., Peterson, P., Maidment, R., Tadesse, T., Gadain, H., & Ceccato, P. (2018). Validation of the CHIRPS satellite rainfall estimates over eastern Africa. *Quarterly Journal of the Royal Meteorological Society*, 144(June 2017), 292–312. <https://doi.org/10.1002/qj.3244>
- Dong, C., Dong, X., Gehman, J., & Lefsrud, L. (2017). Using BP neural networks to prioritize risk management approaches for China's unconventional shale gas industry. *Sustainability (Switzerland)*, 9(6), 1–18. <https://doi.org/10.3390/su9060979>
- Dong, P., Ramesh, S., & Nepali, A. (2010). Evaluation of small-area population estimation using LiDAR, Landsat TM and parcel data. *International Journal of Remote Sensing*, 31(21), 5571–5586. <https://doi.org/10.1080/01431161.2010.496804>
- Dong, R., Zhang, X., & Li, H. (2019). Constructing the ecological security pattern for sponge city: A case study in Zhengzhou, China. *Water (Switzerland)*,

- 11(2), 1–17. <https://doi.org/10.3390/w11020284>
- Donnay, J.-P., Michael J. Barnsley, & A. Longley, P. (Eds.). (2001). *Remote Sensing and Urban Analysis*. Taylor & Francis.
- Du, P., Liu, P., Xia, J., Feng, L., Liu, S., Tan, K., & Cheng, L. (2014). Remote sensing image interpretation for urban environment analysis: Methods, system and examples. *Remote Sensing*, 6(10), 9458–9474. <https://doi.org/10.3390/rs6109458>
- Du, P., Xia, J., Du, Q., Luo, Y., & Tan, K. (2013a). Evaluation of the spatio-temporal pattern of urban ecological security using remote sensing and GIS. *International Journal of Remote Sensing*, 34(3), 848–863. <https://doi.org/10.1080/01431161.2012.714503>
- Du, P., Xia, J., Du, Q., Luo, Y., & Tan, K. (2013b). Evaluation of the spatio-temporal pattern of urban ecological security using remote sensing and GIS. *International Journal of Remote Sensing*, 34(3), 848–863. <https://doi.org/10.1080/01431161.2012.714503>
- Du, P., Xia, J., Du, Q., Luo, Y., & Tan, K. (2013c). Evaluation of the spatio-temporal pattern of urban ecological security using remote sensing and GIS. *International Journal of Remote Sensing*, 34(3), 848–863. <https://doi.org/10.1080/01431161.2012.714503>
- Du, P., Xia, J., Du, Q., Luo, Y., & Tan, K. (2013d). Evaluation of the spatio-temporal pattern of urban ecological security using remote sensing and GIS. *International Journal of Remote Sensing*, 34(3). <https://doi.org/10.1080/01431161.2012.714503>
- du Plessis, W. P. (1999). Linear regression relationships between NDVI, vegetation and rainfall in Etosha National Park, Namibia. *Journal of Arid Environments*, 42(4), 235–260. <https://doi.org/https://doi.org/10.1006/jare.1999.0505>
- Dutta, D., Rahman, A., Paul, S. K., & Kundu, A. (2021). Impervious surface growth and its inter-relationship with vegetation cover and land surface temperature in peri-urban areas of Delhi. *Urban Climate*, 37(February), 100799. <https://doi.org/10.1016/j.uclim.2021.100799>
- Dziauddin, M. F., & Idris, Z. (2017). Use of geographically weighted regression (gwr) method to estimate the effects of location attributes on the residential property values. *Indonesian Journal of Geography*, 49(1), 97–110. <https://doi.org/10.22146/ijg.27036>
- Ebrahimzadeh, S., Motagh, M., Mahboub, V., & Mirdar Harijani, F. (2018). An improved RUSLE/SDR model for the evaluation of soil erosion. *Environmental Earth Sciences*, 77(12), 1–17. <https://doi.org/10.1007/s12665-018-7635-8>
- Ellis, E. C., Pascual, U., & Mertz, O. (2019). Ecosystem services and nature's contribution to people: negotiating diverse values and trade-offs in land systems. *Current Opinion in Environmental Sustainability*, 38, 86–94. <https://doi.org/https://doi.org/10.1016/j.cosust.2019.05.001>
- Enderle, D. I., Weih Jr, R. C., Jr, R. C., IMenderle, D., & Weih Jr, R. C. (2005). Integrating Supervised and Unsupervised Classification Methods to Develop a More Accurate Land Cover Classification. *Journal of the Arkansas*

- Academy of Science*, 59, 10.
<http://scholarworks.uark.edu/jaashttp://scholarworks.uark.edu/jaas/vol59/iss1/10>
- Erlani, R., & Nugrahandika, W. H. (2019). Ketangguhan Kota Semarang dalam Menghadapi Bencana Banjir Pasang Air Laut (Rob). *Journal of Regional and Rural Development Planning*, 3(1), 47.
<https://doi.org/10.29244/jp2wd.2019.3.1.47-36>
- Estes, J., Kline, K., & Collins, E. (2001). *Remote Sensing* (N. J. Smelser & P. B. B. T.-I. E. of the S. & B. S. Baltes (Eds.); pp. 13144–13150). Pergamon.
<https://doi.org/https://doi.org/10.1016/B0-08-043076-7/02526-2>
- Estoque, R. C., & Murayama, Y. (2015). Classification and change detection of built-up lands from Landsat-7 ETM+ and Landsat-8 OLI/TIRS imageries: A comparative assessment of various spectral indices. *Ecological Indicators*, 56, 205–217. <https://doi.org/10.1016/j.ecolind.2015.03.037>
- Ezeonu, I. C., & Ezeonu, F. C. (2000). The Environment and Global Security. *The Environmentalist*, 20, 41–48. <https://link.springer-com.ezproxy.lib.gla.ac.uk/content/pdf/10.1023%2FA%3A1006651927333.pdf>
- Faisal, A.-A.-, Kafy, A.-A., Al Rakib, A., Akter, K. S., Jahir, D. M. A., Sikdar, M. S., Ashrafi, T. J., Mallik, S., & Rahman, M. M. (2021). Assessing and predicting land use/land cover, land surface temperature and urban thermal field variance index using Landsat imagery for Dhaka Metropolitan area. *Environmental Challenges*, 4(June), 100192.
<https://doi.org/10.1016/j.envc.2021.100192>
- Faisal, K., & Shaker, A. (2017). Improving the Accuracy of Urban Environmental Quality Assessment Using Geographically-Weighted Regression Techniques. *Sensors*, 17(3), 528. <https://doi.org/10.3390/s17030528>
- Faizah, A. N., & Hendarto, M. (2013). Analisis difusi keruangan di sekitar kawasan perkotaan yogyakarta. *Diponegoro Journal of Economics*, 2(3), 1–9.
- Fakhri Islam, L. J., Prasetyo, Y., & Sudarsono, B. (2017). Analisis Penurunan Muka Tanah (Land Subsidence) Kota Semarang Menggunakan Citra Sentinel-1 Berdasarkan Metode Dinsar Pada Perangkat Lunak Snap. *Jurnal Geodesi Undip*, 6(2), 29–36.
- Fawcett, T. (2006). An introduction to ROC analysis. *Pattern Recognition Letters*, 27(8), 861–874. <https://doi.org/10.1016/j.patrec.2005.10.010>
- Fei, W., & Qi, W. (2018a). Research on Comprehensive Assessment Method of Ecological Security in Urban New Area Oriented to Planning - Qinhan New Town in Xixian New Area for Example. *IOP Conference Series: Earth and Environmental Science*. <https://doi.org/doi:10.1088/1755-1315/153/6/062021>
- Fei, W., & Qi, W. (2018b). Research on Comprehensive Assessment Method of Ecological Security in Urban New Area Oriented to Planning - Qinhan New Town in Xixian New Area for Example. *IOP Conference Series: Earth and Environmental Science*, 153(6). <https://doi.org/10.1088/1755-1315/153/6/062021>

- Feng, X., Xiu, C., Bai, L., Zhong, Y., & Wei, Y. (2020). Comprehensive evaluation of urban resilience based on the perspective of landscape pattern: A case study of Shenyang city. *Cities*, 104(February 2019), 102722. <https://doi.org/10.1016/j.cities.2020.102722>
- Feng, Y., Liu, Y., & Liu, Y. (2016). Spatially explicit assessment of land ecological security with spatial variables and logistic regression modeling in Shanghai, China. *Stochastic Environmental Research and Risk Assessment*, 31(9), 2235–2249. <https://doi.org/10.1007/s00477-016-1330-7>
- Feng, Y., Liu, Y., & Liu, Y. (2017). Spatially explicit assessment of land ecological security with spatial variables and logistic regression modeling in Shanghai, China. *Stochastic Environmental Research and Risk Assessment*, 31(9), 2235–2249. <https://doi.org/10.1007/s00477-016-1330-7>
- Feng, Y., Yang, Q., Tong, X., & Chen, L. (2018a). Evaluating land ecological security and examining its relationships with driving factors using GIS and generalized additive model. *Science of The Total Environment*, 633, 1469–1479. <https://doi.org/10.1016/j.scitotenv.2018.03.272>
- Feng, Y., Yang, Q., Tong, X., & Chen, L. (2018b). Evaluating land ecological security and examining its relationships with driving factors using GIS and generalized additive model. *Science of The Total Environment*, 633, 1469–1479. <https://doi.org/10.1016/J.SCITOTENV.2018.03.272>
- Ferro-Famil, L., & Lavalley, M. (2009). Detection and analysis of urban areas using alos palsar polarimetric data. *International Geoscience and Remote Sensing Symposium (IGARSS)*, 5, V-142–V-145. <https://doi.org/10.1109/IGARSS.2009.5417711>
- Festus, I. A., Omoboye, I. F., & Andrew, O. B. (2020). Urban Sprawl: Environmental Consequence of Rapid Urban Expansion. *Malaysian Journal of Social Sciences and Humanities (MJSSH)*, 5(6), 110–118. <https://doi.org/10.47405/mjssh.v5i6.411>
- Finley, A. O. (2011). Comparing spatially-varying coefficients models for analysis of ecological data with non-stationary and anisotropic residual dependence. *Methods in Ecology and Evolution*, 2(2), 143–154. <https://doi.org/10.1111/j.2041-210X.2010.00060.x>
- Firman, T. (2010). Multi local-government under Indonesia's decentralization reform: The case of Kartamantul (The Greater Yogyakarta). *Habitat International*, 34(4), 400–405. <https://doi.org/10.1016/j.habitatint.2009.11.005>
- Firozjaei, M. K., Fatholouloumi, S., Weng, Q., Kiavarz, M., & Alavipanah, S. K. (2020). Remotely sensed urban surface ecological index (RSUSEI): An analytical framework for assessing the surface ecological status in urban environments. *Remote Sensing*, 12(12). <https://doi.org/10.3390/rs12122029>
- Fisher, J. R. B., Acosta, E. A., Dennedy-Frank, P. J., Kroeger, T., & Boucher, T. M. (2018). Impact of satellite imagery spatial resolution on land use classification accuracy and modeled water quality. *Remote Sensing in Ecology and Conservation*, 4(2), 137–149. <https://doi.org/10.1002/rse2.61>
- Fitriana, H. L., Sulma, S., Febrianti, N., Nugroho, J. T., & Haryani, N. S. (2019). the Utilization of Remote Sensing Data To Support Green Open Space

- Mapping in Jakarta, Indonesia. *International Journal of Remote Sensing and Earth Sciences (IJReSES)*, 15(2), 199.
<https://doi.org/10.30536/j.ijreses.2018.v15.a2890>
- Foody, G. M., & Mathur, A. (2004). Toward intelligent training of supervised image classifications: Directing training data acquisition for SVM classification. In *Remote Sensing of Environment* (Vol. 93, Issues 1–2, pp. 107–117). <https://doi.org/10.1016/j.rse.2004.06.017>
- Forman, R. T. T. (2014). *Urban ecology : science of cities*. Cambridge University Press.
- Forman, R. T. T. (2016). Urban ecology principles: are urban ecology and natural area ecology really different? *Landscape Ecology*, 31(8), 1653–1662.
<https://doi.org/10.1007/s10980-016-0424-4>
- Forster, B. (1983). Some urban measurements from Landsat data. *Photogrammetric Engineering and Remote Sensing*, 49(12), 1693–1707.
<http://scholar.google.com/scholar?hl=en&btnG=Search&q=intitle:Some+urban+measurements+from+Landsat+data#0>
- Franklin, J. F., Lindenmayer, D., Macmahon, J. A., Mckee, A., Perry, D. A., Waide, R., & Foster, D. (2000). Threads of Continuity: Ecosystem disturbance, recovery, and the theory of biological legacies. *Conservation in Practice*, 1(1), 8–17.
- Funk, C. C., Peterson, P. J., Landsfeld, M. F., Pedreros, D. H., Verdin, J. P., Rowland, J. D., Romero, B. E., Husak, G. J., Michaelsen, J. C., & Verdin, A. P. (2014). A Quasi-Global Precipitation Time Series for Drought Monitoring. *U.S. Geological Survey Data Series*, 832(January), 4.
<https://doi.org/10.3133/ds832>
- Funk, C., Peterson, P., Landsfeld, M., Pedreros, D., Verdin, J., Shukla, S., Husak, G., Rowland, J., Harrison, L., Hoell, A., & Michaelsen, J. (2015). The climate hazards infrared precipitation with stations - A new environmental record for monitoring extremes. *Scientific Data*, 2(December).
<https://doi.org/10.1038/sdata.2015.66>
- Gaetano, R., Scarpa, G., & Poggi, G. (2009). Hierarchical texture-based segmentation of multiresolution remote-sensing images. *IEEE Transactions on Geoscience and Remote Sensing*, 47(7), 2129–2141.
<https://doi.org/10.1109/TGRS.2008.2010708>
- Gamba, P., Dell'Acqua, F., Lisini, G., & Cisotta, F. (2006). Improving Building Footprints in InSAR Data by Comparison with a Lidar DSM. *Photogrammetric Engineering & Remote Sensing*, 72(1), 63–70.
<https://doi.org/10.14358/PERS.72.1.63>
- Gao, C., Chen, X., Wei, C., & Peng, X. (2006). Application of entropy weight and fuzzy synthetic evaluation in urban ecological security assessment. *Chinese Journal of Applied Ecology*, 17(10), 1923–1927.
<https://doi.org/10.1002/etc.5620111207>
- Gao, P. P., Li, Y. P., Sun, J., & Li, H. W. (2018a). Coupling fuzzy multiple attribute decision-making with analytic hierarchy process to evaluate urban ecological security : A case study of Guangzhou , China. *Ecological Complexity*, 34, 23–34. <https://doi.org/10.1016/j.ecocom.2018.03.001>

- Gao, P. P., Li, Y. P., Sun, J., & Li, H. W. (2018b). Coupling fuzzy multiple attribute decision-making with analytic hierarchy process to evaluate urban ecological security: A case study of Guangzhou, China. *Ecological Complexity*, 34, 23–34. <https://doi.org/10.1016/j.ecocom.2018.03.001>
- Gao, X., Wang, G., Innes, J. L., Zhao, Y., Zhang, X., Zhang, D., & Mi, F. (2021). Forest Ecological Security in China: A Quantitative Analysis of Twenty Five Years. *Global Ecology and Conservation*, e01821. <https://doi.org/10.1016/j.gecco.2021.e01821>
- Gao, Yu, Ma, L., Liu, J., Zhuang, Z., Huang, Q., & Li, M. (2017). Constructing Ecological Networks Based on Habitat Quality Assessment: A Case Study of Changzhou, China. *Scientific Reports*, 7(April), 1–11. <https://doi.org/10.1038/srep46073>
- Gao, Yuan, Zhang, C., He, Q., & Liu, Y. (2017). Urban ecological security simulation and prediction using an improved cellular automata (CA) approach—a case study for the city of Wuhan in China. *International Journal of Environmental Research and Public Health*, 14(6). <https://doi.org/10.3390/ijerph14060643>
- Ge, Y., Li, X., Hu, M. G., Wang, J. H., Jin, R., Wang, J. F., & Zhang, R. H. (2013). Technical Specification For The Validation Of Remote Sensing. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XL(June), 13–17.
- Geddes, P., & Sanders, S. R. (2014). Into the Intro: Urban Ecology. *Fifteeneightyfour (Cambridge University Press)*, 1–11. <http://www.cambridgeblog.org/2014/04/into-the-intro-urban-ecology/>
- Geng, W., Baochi, N., Lin, W., & Wei, W. (2013). Research on Methods of Ecological Security Assessment of the Middle and Lower Reaches of Liaohe River Based on GIS s Research on Methods of Ecological Security Assessment of the Middle and Lower Reaches of Liaohe River Based on GIS. *Chinese Journal of Population Resources and Environment*, 2857(November 2017), 17–23. <https://doi.org/10.1080/10042857.2005.10677435>
- Ghosh, A., & Maiti, R. (2021). Development of new Ecological Susceptibility Index (ESI) for monitoring ecological risk of river corridor using F-AHP and AHP and its application on the Mayurakshi river of Eastern India. *Ecological Informatics*, 63(May), 101318. <https://doi.org/10.1016/j.ecoinf.2021.101318>
- Ghosh, S., Das Chatterjee, N., & Dinda, S. (2021a). Urban ecological security assessment and forecasting using integrated DEMATEL-ANP and CA-Markov models: A case study on Kolkata Metropolitan Area, India. *Sustainable Cities and Society*, 68(February), 102773. <https://doi.org/10.1016/j.scs.2021.102773>
- Ghosh, S., Das Chatterjee, N., & Dinda, S. (2021b). Urban ecological security assessment and forecasting using integrated DEMATEL-ANP and CA-Markov models: A case study on Kolkata Metropolitan Area, India. *Sustainable Cities and Society*, 68(October 2020), 102773. <https://doi.org/10.1016/j.scs.2021.102773>
- Giyarsih, S. R., & Marfai, M. A. (2018). The perception of stakeholders on

- regional transformation on the outskirts of Yogyakarta City, Indonesia. *GeoJournal*, 83(5), 983–991. <https://doi.org/10.1007/s10708-017-9812-9>
- Goldblatt, R. (2017). High Spatial Resolution Visual Band Imagery Outperforms Medium Resolution Spectral Imagery for Ecosystem Assessment in the Semi-Arid Brazilian Sertão. *Remote Sensing*, 9(12), 1336. <https://doi.org/10.3390/rs9121336>
- Gong, J.-Z., Xia, B.-C., & Guo, L. (2006). Assessment and prediction models of urban ecological security. *Acta Scientiarum Natralium Universitatis Sunyatseni*, 45(1), 107–111.
- Gong, Jian-zhou,; Liu, Y., Xia, B., & Zhao, G. (2009). Urban ecological security assessment and forecasting, based on a cellular automata model: A case study of Guangzhou, China. *Ecological Modelling*, 220(24), 3612–3620. <https://doi.org/10.1016/j.ecolmodel.2009.10.018>
- Gong, Jian-zhou, Liu, Y., Xia, B., & Zhao, G. (2009). Urban ecological security assessment and forecasting, based on a cellular automata model: A case study of Guangzhou, China. *Ecological Modelling*, 220(24), 3612–3620. <https://doi.org/10.1016/J.ECOLMODEL.2009.10.018>
- Goodall, D. W. (1972). Building and testing ecosystem models. *Mathematical Models in Ecology 12th Symp. Oxford*. https://scholar.google.com/scholar?hl=en&as_sdt=0,5&cluster=12173166690689415341
- Goward, S. N., Masek, J. G., Loveland, T. R., Dwyer, J. L., Williams, D. L., Arvidson, T., Rocchio, L. E. P., & Irons, J. R. (2022). *SEMI-CENTENNIAL OF LANDSAT OBSERVATIONS & PENDING LANDSAT 9 LAUNCH Delivered by Ingenta*. 533–539. <https://doi.org/10.14358/PERS.87.8.533>
- Graham, P. S. (n.d.). *Urban Ecological Security and the ‘ Anthropocene . ’*
- Greiving, S., & Angignard, M. (2014). *Disaster Mitigation by Spatial Planning BT - Mountain Risks: From Prediction to Management and Governance* (T. Van Asch, J. Corominas, S. Greiving, J.-P. Malet, & S. Sterlacchini (Eds.); pp. 287–302). Springer Netherlands. https://doi.org/10.1007/978-94-007-6769-0_10
- Grimm, N. B. (2008). *Global Change and the Ecology of Cities*. March. <https://doi.org/10.1126/science.1150195>
- Grimm, N. B., Faeth, S. H., Golubiewski, N. E., Redman, C. L., Wu, J., Bai, X., & Briggs, J. M. (2008). Global change and the ecology of cities. *Science*, 319(5864), 756–760. <https://doi.org/10.1126/science.1150195>
- Grimm, N. B., Grove, J. M., Pickett, S. T. A., Redman, C. L., & Grove, M. J. (2000). Integrated Approaches to Long-Term Studies of Urban Ecological Systems. *BioScience*, 50(7), 571–584.
- Gudynaitė-Franckevičienė, V., & Pliūra, A. (2021). The impact of different environmental conditions during vegetative propagation on growth, survival, and biochemical characteristics in populus hybrids in clonal field trial. *Forests*, 12(7). <https://doi.org/10.3390/f12070892>
- Guha, S., Govil, H., Dey, A., & Gill, N. (2018). Analytical study of land surface temperature with NDVI and NDBI using Landsat 8 OLI and TIRS data in Florence and Naples city, Italy. *European Journal of Remote Sensing*, 51(1),

- 667–678. <https://doi.org/10.1080/22797254.2018.1474494>
- Gulink, H., Dufourmont, H., Coppin, P., & Hermly, M. (2000). Landscape research, landscape policy and Earth observation. *International Journal of Remote Sensing*, 21(13–14), 2541–2554. <https://doi.org/10.1080/01431160050110160>
- Guo, Hengliang, Zhang, B., Bai, Y., & He, X. (2017). Ecological environment assessment based on Remote Sensing in Zhengzhou. *IOP Conf. Series: Earth and Environmental Science* 94. <https://doi.org/10.1088/1755-1315/94/1/012190>
- Guo, Hui, Cao, K., & Wang, P. (2017). Population estimation in Singapore based on remote sensing and open data. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 42(2W7), 1181–1187. <https://doi.org/10.5194/isprs-archives-XLII-2-W7-1181-2017>
- Guo, L., Liu, R., Men, C., Wang, Q., Miao, Y., & Zhang, Y. (2019). Quantifying and simulating landscape composition and pattern impacts on land surface temperature: A decadal study of the rapidly urbanizing city of Beijing, China. *Science of The Total Environment*, 654, 430–440. <https://doi.org/https://doi.org/10.1016/j.scitotenv.2018.11.108>
- Guo, R., Wu, T., Liu, M., Huang, M., Stendardo, L., & Zhang, Y. (2019). The construction and optimization of ecological security pattern in the Harbin-Changchun urban agglomeration, China. *International Journal of Environmental Research and Public Health*, 16(7), 1–18. <https://doi.org/10.3390/ijerph16071190>
- Han, B., Liu, H., & Wang, R. (2015a). Urban ecological security assessment for cities in the Beijing-Tianjin-Hebei metropolitan region based on fuzzy and entropy methods. *Ecological Modelling*, 318, 217–225. <https://doi.org/10.1016/j.ecolmodel.2014.12.015>
- Han, B., Liu, H., & Wang, R. (2015b). Urban ecological security assessment for cities in the Beijing-Tianjin-Hebei metropolitan region based on fuzzy and entropy methods. *Ecological Modelling*, 318, 217–225. <https://doi.org/10.1016/j.ecolmodel.2014.12.015>
- Han, Y., Yu, C., Feng, Z., Du, H., Huang, C., & Wu, K. (2021). *Based on Spatial Syntax Classification — Taking Ningbo , China ,.*
- Handayani, W., & Rudiarto, I. (2014). Dynamics of Urban Growth in Semarang Metropolitan – Central Java: An Examination Based on Built-Up Area and Population Change. *Journal of Geography and Geology*, 6(4). <https://doi.org/10.5539/jgg.v6n4p80>
- Hanley, J. A., & McNeil, B. J. (1982). The meaning and use of the area under a receiver operating characteristic (ROC) curve. *Radiology*, 143.
- Hao, H., Li, Y., Zhang, H., Zhai, R., & Liu, H. (2019). Spatiotemporal variations of vegetation and its determinants in the National Key Ecological Function Area on Loess Plateau between 2000 and 2015. *Ecology and Evolution*, 9(10), 5810–5820. <https://doi.org/10.1002/ece3.5165>
- Hao, R., Su, W., & Yu, D. (2013). *Quantifying the Type of Urban Sprawl and Dynamic Changes in Shenzhen BT - Computer and Computing Technologies*

- in Agriculture VI* (D. Li & Y. Chen (Eds.); pp. 407–415). Springer Berlin Heidelberg.
- Harris, P., Clarke, A., Juggins, S., Brunsdon, C., & Charlton, M. (2015). Enhancements to a geographically weighted principal component analysis in the context of an application to an environmental data set. *Geographical Analysis*, 47(2), 146–172. <https://doi.org/10.1111/gean.12048>
- Hassan, F., Safdar, T., Khan, A. U., Irtaza, G., Kazmi, S. M. H., & Murtaza, F. (2020). Urbanization change analysis based on SVM and RF machine learning algorithms. *International Journal of Advanced Computer Science and Applications*, 11(5), 591–601. <https://doi.org/10.14569/IJACSA.2020.0110573>
- Hawken, S., Metternicht, G., Liew, C. W. C. S. C., & Gupta, A. (2014a). Remote Sensing Of Urban Ecological Infrastructure In Desakota. *35th Asian Conference On Remote Sensing (Acrs 2014)*. [https://doi.org/DOI: 10.13140/2.1.3202.9768](https://doi.org/DOI:10.13140/2.1.3202.9768)
- Hawken, S., Metternicht, G., Liew, C. W. C. S. C., & Gupta, A. (2014b). Remote Sensing of Urban Ecological Infrastructure in Desakota Environments: A Review of Current Approaches. *35th Asian Conference on Remote Sensing (ACRS 2014), October*. <https://doi.org/10.13140/2.1.3202.9768>
- He, C., Gao, B., Huang, Q., Ma, Q., & Dou, Y. (2017). Environmental degradation in the urban areas of China: Evidence from multi-source remote sensing data. *Remote Sensing of Environment*, 193(2017), 65–75. <https://doi.org/10.1016/j.rse.2017.02.027>
- He, C., Okada, N., Zhang, Q., Shi, P., & Zhang, J. (2006). Modeling urban expansion scenarios by coupling cellular automata model and system dynamic model in Beijing, China. *Applied Geography*, 26(3–4), 323–345. <https://doi.org/10.1016/j.apgeog.2006.09.006>
- He, D., Hou, K., Wen, J. F., Wu, S. Q., & Wu, Z. P. (2021). A coupled study of ecological security and land use change based on GIS and entropy method—a typical region in Northwest China, Lanzhou. *Environmental Science and Pollution Research*.
- He, G., Yu, B., Li, S., & Zhu, Y. (2017). Comprehensive evaluation of ecological security in mining area based on PSR – ANP – GRAY. *Environmental Technology ISSN*., 3330(November). <https://doi.org/10.1080/09593330.2017.1371250>
- He, G., Yu, B., Li, S., Zhu, Y., & Gray, P. S. R. A. N. P. (2017). Comprehensive evaluation of ecological security in mining area based on PSR – ANP – GRAY. *Environmental Technology*, 0(0), 1–7. <https://doi.org/10.1080/09593330.2017.1371250>
- He, W., Wen, Y. L., & Xiong, Z. Q. (2021). Spatial-temporal dynamics and scenario simulation of land ecological security: a case study of Deyang, Sichuan Province, China. *Environmental Science and Pollution Research*, 28(16), 20209–20221. <https://doi.org/10.1007/s11356-020-11837-2>
- Hedhli, I., Moser, G., Serpico, S. B., & Zerubia, J. (2015). New cascade model for hierarchical joint classification of multitemporal, multiresolution and multisensor remote sensing data. *IGARSS 2015*, 1543–1546.

- Hennig, E. I., Schwick, C., Soukup, T., Orlitová, E., Kienast, F., & Jaeger, J. A. G. (2015). Multi-scale analysis of urban sprawl in Europe: Towards a European de-sprawling strategy. *Land Use Policy*, 49, 483–498. <https://doi.org/10.1016/j.landusepol.2015.08.001>
- Herold, M., Gardner, M. E., & Roberts, D. A. (2003). Spectral resolution requirements for mapping urban areas. *IEEE Transactions on Geoscience and Remote Sensing*, 41(9), 1907–1919. <https://doi.org/10.1109/TGRS.2003.815238>
- Herold, Martin, Goldstein, N. C., & Clarke, K. C. (2003). The spatiotemporal form of urban growth: measurement, analysis and modeling. *Remote Sensing of Environment*, 86(3), 286–302. [https://doi.org/10.1016/S0034-4257\(03\)00075-0](https://doi.org/10.1016/S0034-4257(03)00075-0)
- Hjørland, B., & Pedersen, K. N. (2005). A substantive theory of classification for information retrieval. *Journal of Documentation*, 61(5), 582–597. <https://doi.org/10.1108/00220410510625804>
- Hodson, M., & Marvin, S. (2009). “Urban ecological security”: A new urban paradigm? *International Journal of Urban and Regional Research*, 33(1), 193–215. <https://doi.org/10.1111/j.1468-2427.2009.00832.x>
- Hodson, M., & Marvin, S. (2010a). Urbanism in the anthropocene Ecological urbanism or premium ecological enclaves? *City*, 14(3), 299–313. <https://doi.org/10.1080/13604813.2010.482277>
- Hodson, M., & Marvin, S. (2010b). *World Cities And Climate Change: Producing Urban Ecological Security*. 99(December 2011), 182. <http://books.google.com/books?id=k1hQB2jpa3oC>
- Hofmann, P. (2001). Detecting informal settlements from {IKONOS} image data using methods of object oriented image analysis -- an example from {C}ape {T}own ({S}outh {A}frica). *Remote Sensing of Urban Areas, January 2001*, 41–42.
- Hou, K., Li, X., Wang, J., & Zhang, J. (2016). Evaluating ecological vulnerability using the GIS and analytic hierarchy process (AHP) method in Yan'an, China. *Polish Journal of Environmental Studies*, 25(2), 599–605. <https://doi.org/10.15244/pjoes/61312>
- Hough, P. (2017). Ecological Security. *Rethinking Security in the Twenty-First Century*, 183–194. https://doi.org/10.1057/978-1-137-52542-0_13
- Hu, M. G., & Wang, J. F. (2011). A spatial sampling optimization package using MSN theory. *Environmental Modelling and Software*, 26(4), 546–548. <https://doi.org/10.1016/j.envsoft.2010.10.006>
- Hu, X., & Xu, H. (2018a). A new remote sensing index for assessing the spatial heterogeneity in urban ecological quality : A case from Fuzhou City , China. *Ecological Indicators*, 89(August 2017), 11–21. <https://doi.org/10.1016/j.ecolind.2018.02.006>
- Hu, X., & Xu, H. (2018b). A new remote sensing index for assessing the spatial heterogeneity in urban ecological quality : A case from Fuzhou City , China. *Ecological Indicators*, 89(December 2017), 11–21. <https://doi.org/10.1016/j.ecolind.2018.02.006>
- Hu, X., & Xu, H. (2018c). A new remote sensing index for assessing the spatial

- heterogeneity in urban ecological quality: A case from Fuzhou City, China. *Ecological Indicators*, 89(December 2017), 11–21.
<https://doi.org/10.1016/j.ecolind.2018.02.006>
- Hu, X., & Xu, H. (2019). A new remote sensing index based on the pressure-state-response framework to assess regional ecological change. *Environmental Science and Pollution Research*, 26(6), 5381–5393.
<https://doi.org/10.1007/s11356-018-3948-0>
- Hu, Y., & Jia, G. (2010). Influence of land use change on urban heat island derived from multi-sensor data. *International Journal of Climatology*, 30(9), 1382–1395. <https://doi.org/10.1002/joc.1984>
- Hua, T., Zhao, W., Cherubini, F., Hu, X., & Pereira, P. (2021). Sensitivity and future exposure of ecosystem services to climate change on the Tibetan Plateau of China. *Landscape Ecology*, 36(12), 3451–3471.
<https://doi.org/10.1007/s10980-021-01320-9>
- Huang, F., Wang, P., & Qi, X. (2018). Assessment of ecological security in Changbai Mountain Area, China based on MODIS data and PSR model. *Journal of Applied Science and Engineering*, 21(1), 926034.
<https://doi.org/10.1117/12.2068884>
- Huang, J., Tang, Z., Liu, D., & He, J. (2020). Ecological response to urban development in a changing socio-economic and climate context: Policy implications for balancing regional development and habitat conservation. *Land Use Policy*, 97(June), 104772.
<https://doi.org/10.1016/j.landusepol.2020.104772>
- Huang, Q., Peng, B., Wei, G., & Wan, A. (2021). Dynamic assessment and early warning of ecological security: a case study of the Yangtze river urban agglomeration. *Natural Hazards*, 107(3), 2441–2461.
<https://doi.org/10.1007/s11069-020-04436-4>
- Huete, A. R. (1988). A soil-adjusted vegetation index (SAVI). *Remote Sensing of Environment*, 25(3), 295–309. [https://doi.org/10.1016/0034-4257\(88\)90106-X](https://doi.org/10.1016/0034-4257(88)90106-X)
- Hung, M. (2002). Urban Land Cover Analysisi Form Satellite Images. *Pecora 15/Land Satellite Information IV/ISPRS Commission I/FIEOS 2002 Conference, Figure 1*.
- Id, L. W., & Xie, B. (2019). *The variation differences of cultivated land ecological security between flatland and mountainous areas based on LUCC*. 1–20.
- Id, Y. C., Id, J. W., Id, E. K., & Id, A. T. (2022). *Ecological security assessment at different spatial scales in central Yunnan Province* ., 1–19.
<https://doi.org/10.1371/journal.pone.0270267>
- Indrawati, L., Murti, S. H., Rachmawati, R., & Kurniawan, A. (2020). Urban expansion analysis through Remote Sensing and GIS in Semarang-Indonesia. *IOP Conference Series: Earth and Environmental Science*, 485(1).
<https://doi.org/10.1088/1755-1315/485/1/012113>
- Indrawati, Like. (2017). Pemanfaatan Data Landsat Multitemporal Untuk Pemetaan Pola Ekspansi Perkotaan Secara Spasiotemporal: Studi Kasus Pada Tiga Kota Metropolitan Di Pulau Jawa. *Seminar Teknologi Terapan 2017*.

- Indrawati, Like, Sigit Heru Murti, B. S., & Rachmawati, R. (2020). Integrated ecological index (IEI) for urban ecological status based on remote sensing data: A study at Semarang - Indonesia. *IOP Conference Series: Earth and Environmental Science*, 500(1). <https://doi.org/10.1088/1755-1315/500/1/012074>
- Innocent, Jiwen, G., & Mamadou, S. (2009). An assessment and evaluation of the ecological security in a human inhabited protected area at Korup , south western Cameroon : Linking satellite , ecological and human socioeconomic indicators. *Journal of American Science*, 5(2), 43–53.
- Inouye, C. E. N., de Sousa, W. C., de Freitas, D. M., & Simões, E. (2015). Modelling the spatial dynamics of urban growth and land use changes in the north coast of São Paulo, Brazil. *Ocean and Coastal Management*, 108, 147–157. <https://doi.org/10.1016/j.ocecoaman.2014.12.016>
- IONIȚĂ-BURDA, Ș.-D. (2012). *Potential Risks To Ecological Security*.
- IPCC. (2007). *Climate Change 2007: Impacts, Adaptation and Vulnerability*. Cambridge University Press.
- Isneni, A. N., Putranto, T. T., & Trisnawati, D. (2020). Analisis Sebaran Daerah Rawan Longsor Menggunakan Remote Sensing dan Analytical Hierarchy Process (AHP) di Kabupaten Magelang Provinsi Jawa Tengah. *Jurnal Geosains Dan Teknologi*, 3(3), 149–160. <https://doi.org/10.14710/jgt.3.3.2020.149-160>
- Jain, S., Sannigrahi, S., Sen, S., Bhatt, S., Chakraborti, S., & Rahmat, S. (2019). Urban heat island intensity and its mitigation strategies in the fast-growing urban area. *Journal of Urban Management*, 9(1), 54–66. <https://doi.org/10.1016/j.jum.2019.09.004>
- James, P. (2015). Advances in Urban Sustainability: Urban Sustainability in Theory and Practice. In *Routledge* (Vol. 4, Issue 1). Routledge.
- Janus, J., & Bozek, P. (2019). Land abandonment in Poland after the collapse of socialism: Over a quarter of a century of increasing tree cover on agricultural land. *Ecological Engineering*, 138(June), 106–117. <https://doi.org/10.1016/j.ecoleng.2019.06.017>
- Jedlovec, G. (2009). *Advances in Geoscience and Remote Sensing* (D. G. Jedlovec (Ed.)). In-teh. <https://doi.org/10.5772/955>
- Jensen, J., & Cowen, D. (1999). Remote sensing of urban suburban infrastructure and socio-economic attributes. *Photogrammetric Engineering and Remote Sensing*, 65(5), 611–622.
- Jensen, R., Gatrell, J., Boulton, J., & Harper, B. (2004). Using Remote Sensing and Geographic Information Systems to Study Urban Quality of Life and Urban Forest Amenities. *Ecology and Society*, 9(5).
- J i - x i C A O B i n g - s h u a i , Z O U C h a n g - x i n , G A O . (2019). Review on Methodology and Application of Ecological Security Assessment. *Journal Of Ecology And Rural Environment*, 35(8), 953–963.

- Ji, C. Y., Liu, Q., Sun, D., Wang, S., Lin, P., & Li, X. (2001). Monitoring urban expansion with remote sensing in China. *International Journal of Remote Sensing*, 22(8), 1441–1455.
- Jiahua, P. (2013). Ensuring Ecological Security by Adapting to Carrying Capacity. *Social Sciences in China*, 34(4), 154–161.
<https://doi.org/10.1080/02529203.2013.849094>
- Jiang, X. (2011). Urban Ecological Security Evaluation and Analysis Based on Fuzzy Mathematics. *Procedia Engineering*, 15, 4451–4455.
<https://doi.org/10.1016/J.PROENG.2011.08.836>
- Jiao, M., Wang, Y., Hu, M., & Xia, B. (2021). Spatial deconstruction and differentiation analysis of early warning for ecological security in the Pearl River Delta, China. *Sustainable Cities and Society*, 64(October 2020), 102557. <https://doi.org/10.1016/j.scs.2020.102557>
- Jin, S., & Sader, S. A. (2005). Comparison of time series tasseled cap wetness and the normalized difference moisture index in detecting forest disturbances. *Remote Sensing of Environment*, 94(3), 364–372.
<https://doi.org/10.1016/j.rse.2004.10.012>
- Jin, X., Wei, L., Wang, Y., & Lu, Y. (2021). Construction of ecological security pattern based on the importance of ecosystem service functions and ecological sensitivity assessment: a case study in Fengxian County of Jiangsu Province, China. *Environment, Development and Sustainability*, 23(1), 563–590. <https://doi.org/10.1007/s10668-020-00596-2>
- Jolliffe, I. T. (1986). *Principal Component Analysis and Factor Analysis BT - Principal Component Analysis* (I. T. Jolliffe (Ed.); pp. 115–128). Springer New York. https://doi.org/10.1007/978-1-4757-1904-8_7
- Juanita, A.-D., Ignacio, P., Jorgelina, G.-A., Cecilia, A.-S., Carlos, M., & Francisco, N. (2019). Assessing the effects of past and future land cover changes in ecosystem services, disservices and biodiversity: A case study in Barranquilla Metropolitan Area (BMA), Colombia. *Ecosystem Services*, 37, 100915. <https://doi.org/https://doi.org/10.1016/j.ecoser.2019.100915>
- Kadhim, N., Mourshed, M., & Bray, M. (2016). Advances in remote sensing applications for urban sustainability. *Euro-Mediterranean Journal for Environmental Integration*, 1(1). <https://doi.org/10.1007/s41207-016-0007-4>
- Kafy, A.- Al, Abdullah-Al-Faisal, Rahman, M. S., Islam, M., Al Rakib, A., Islam, M. A., Khan, M. H. H., Sikdar, M. S., Sarker, M. H. S., Mawa, J., & Sattar, G. S. (2021). Prediction of seasonal urban thermal field variance index using machine learning algorithms in Cumilla, Bangladesh. *Sustainable Cities and Society*, 64, 102542. <https://doi.org/https://doi.org/10.1016/j.scs.2020.102542>
- Kafy, A. Al, Faisal, A. Al, Rahman, M. S., Islam, M., Al Rakib, A., Islam, M. A., Khan, M. H. H., Sikdar, M. S., Sarker, M. H. S., Mawa, J., & Sattar, G. S. (2021). Prediction of seasonal urban thermal field variance index using machine learning algorithms in Cumilla, Bangladesh. *Sustainable Cities and Society*, 64(October 2020), 102542.
<https://doi.org/10.1016/j.scs.2020.102542>
- Kang, H., Xuxiang, L., & Jing, Z. (2015a). GIS analysis of changes in ecological vulnerability using a SPCA model in the Loess plateau of Northern Shaanxi,

- China. *International Journal of Environmental Research and Public Health*, 12(4), 4292–4305. <https://doi.org/10.3390/ijerph120404292>
- Kang, H., Xuxiang, L., & Jing, Z. (2015b). GIS analysis of changes in ecological vulnerability using a SPCA model in the Loess plateau of Northern Shaanxi, China. *International Journal of Environmental Research and Public Health*, 12(4), 4292–4305. <https://doi.org/10.3390/ijerph120404292>
- Kang, J., Zhang, X., Zhu, X., & Zhang, B. (2021a). Ecological security pattern: A new idea for balancing regional development and ecological protection. A case study of the Jiaodong Peninsula, China. *Global Ecology and Conservation*, 26, e01472. <https://doi.org/10.1016/j.gecco.2021.e01472>
- Kang, J., Zhang, X., Zhu, X., & Zhang, B. (2021b). Ecological security pattern: A new idea for balancing regional development and ecological protection. A case study of the Jiaodong Peninsula, China. *Global Ecology and Conservation*, 26, e01472. <https://doi.org/10.1016/J.GECCO.2021.E01472>
- Kang, P., & Xu, L. (2010a). The urban ecological regulation based on ecological carrying capacity. *Procedia Environmental Sciences*, 2, 1692–1700. <https://doi.org/10.1016/j.proenv.2010.10.180>
- Kang, P., & Xu, L. (2010b). The urban ecological regulation based on ecological carrying capacity. *Procedia Environmental Sciences*, 2, 1692–1700. <https://doi.org/10.1016/j.proenv.2010.10.180>
- Kang, P., & Xu, L. (2010c). The urban ecological regulation based on ecological carrying capacity. *Procedia Environmental Sciences*, 2, 1692–1700. <https://doi.org/10.1016/J.PROENV.2010.10.180>
- Karamizadeh, S., Abdullah, S. M., Manaf, A. A., Zamani, M., & Hooman, A. (2013). An Overview of Principal Component Analysis. *Journal of Signal and Information Processing*, 04(03), 173–175. <https://doi.org/10.4236/jsip.2013.43b031>
- Karume, K., Schmidt, C., Kundert, K., Bagula, M. E., Safina, B. F., Schomacker, R., Ganza, D., Azanga, O., Nfundiko, C., Karume, N., & Mushagalusa, G. N. (2018). Use of Remote Sensing for Population Number Determination. *The Open Access Journal of Science and Technology*, 05(03), 1–9. <https://doi.org/10.11131/2017/101227>
- Kaspersen, P. S., Fensholt, R., & Drews, M. (2015). Using Landsat vegetation indices to estimate impervious surface fractions for European cities. *Remote Sensing*, 7(6), 8224–8249. <https://doi.org/10.3390/rs70608224>
- Kawakami, M., Pai, Z. S. J., Gao, X., & Zhang, M. (2013). Spatial Planning and Sustainable Development Approaches for Achieving Sustainable Urban Form in Asian Cities. In M. Kawakami, Z. S. J. Pai, X. Gao, & M. Zhang (Eds.), *Spatial Planning and Sustainable Development: Approaches for Achieving Sustainable Urban Form in Asian Cities*. Springer. https://doi.org/10.1007/978-94-007-5922-0_12
- Ke, F. A. N. (2012). Study on Urban Ecological Security Pattern : 2012 2nd International Conference on Remote Sensing, Environment and Transportation Engineering, 41101137, 1–4. <https://doi.org/10.1109/RSETE.2012.6260757>
- Ke, X., Wang, X., Guo, H., Yang, C., Zhou, Q., & Mougharbel, A. (2021a).

- Urban ecological security evaluation and spatial correlation research—based on data analysis of 16 cities in Hubei Province of China. *Journal of Cleaner Production*, 311(May), 127613.
<https://doi.org/10.1016/j.jclepro.2021.127613>
- Ke, X., Wang, X., Guo, H., Yang, C., Zhou, Q., & Mougharbel, A. (2021b). Urban ecological security evaluation and spatial correlation research—based on data analysis of 16 cities in Hubei Province of China. *Journal of Cleaner Production*, 311(April), 127613.
<https://doi.org/10.1016/j.jclepro.2021.127613>
- Kelble, C. R., Loomis, D. K., Lovelace, S., Nuttle, W. K., Ortner, P. B., Fletcher, P., Cook, G. S., Lorenz, J. J., & Boyer, J. N. (2013). The EBM-DPSER Conceptual Model: Integrating Ecosystem Services into the DPSIR Framework. *PLoS ONE*, 8(8), 1–12.
<https://doi.org/10.1371/journal.pone.0070766>
- Kementerian Lingkungan Hidup dan Kehutanan. (2019). *Buku 1 : Buku Pedoman Penentuan Data Dukung dan Daya Tampung Lingkungan Hidup Daerah*.
- Kennedy, R. E., Townsend, P. A., Gross, J. E., Cohen, W. B., Bolstad, P., Wang, Y. Q., & Adams, P. (2009). Remote sensing change detection tools for natural resource managers: Understanding concepts and tradeoffs in the design of landscape monitoring projects. *Remote Sensing of Environment*, 113(7), 1382–1396. <https://doi.org/https://doi.org/10.1016/j.rse.2008.07.018>
- Kerr, J. T., & Ostrovsky, M. (2003). From space to species: ecological applications for remote sensing. *Trends Ecol Evol*, 18(6), 299–305.
[https://doi.org/10.1016/s0169-5347\(03\)00071-5](https://doi.org/10.1016/s0169-5347(03)00071-5)
- Kesetovic, M. B. and Z. (2004). *Rethinking Security*.
- Kiese, N., & Mager, C. (2018). *Urban Green and Open Spaces under Pressure: The Potential of Ecosystem Services Supply and Demand Analysis for Mediating Planning Processes in the Context of Climate Change* Nina Kiese, Christoph Mager. 0(April), 699–704.
- Kinasih, S. S. K., & Muta'ali, L. (2011). Potensi Pengembangan Teknologi Roof Garden untuk Pembangunan Kota Berkelanjutan (Kajian Komparatif Jakarta dan Chicago , Illinois , AS). *Planocosmo*, 66–78.
- Kopecká, M., Szatmári, D., & Rosina, K. (2017). Analysis of Urban Green Spaces Based on Sentinel-2A: Case Studies from Slovakia. *Land*, 6(2), 25.
<https://doi.org/10.3390/land6020025>
- Korneć, R. (2020). Ecological security of communities in polish cities. *Journal of Human Security*, 16(1), 41–50. <https://doi.org/10.12924/johs2020.16010041>
- Kullenberg, G. (2002). Regional co-development and security: A comprehensive approach. *Ocean and Coastal Management*, 45(11–12), 761–776.
[https://doi.org/10.1016/S0964-5691\(02\)00105-9](https://doi.org/10.1016/S0964-5691(02)00105-9)
- Kumar, B. P., Babu, K. R., Anusha, B. N., & Rajasekhar, M. (2022). Geo-environmental monitoring and assessment of land degradation and desertification in the semi-arid regions using Landsat 8 OLI / TIRS, LST, and NDVI approach. *Environmental Challenges*, 8(December 2021).
<https://doi.org/10.1016/j.envc.2022.100578>
- Kurnianingsih, T. N., & Santosa, P. B. (2019). Desain Sistem Informasi Bencana

- Kota Semarang Untuk Pengelolaan Data Bencana. *Elipsoida : Jurnal Geodesi Dan Geomatika*, 2(02), 53–62.
<https://doi.org/10.14710/elipsoida.2019.4921>
- Kurniawan, E., & Suharini, E. (2021). Flood Disaster in Semarang City from Colonial to Reformasi: A Review of its Management. *Paramita: Historical Studies Journal*, 31(2), 184–193.
<https://doi.org/10.15294/paramita.v31i2.22879>
- Lai, X., & Xiao, Z. (2020). A research on urban eco-security evaluation and analysis: complex system's brittle structure model. *Environmental Science and Pollution Research*, 27(20), 24914–24928.
<https://doi.org/10.1007/s11356-020-08713-4>
- Lakes, T., & Kim, H. (2012). The urban environmental indicator “ Biotope Area Ratio ”— An enhanced approach to assess and manage the urban ecosystem services using high resolution. *Ecological Indicators*, 13(1), 93–103.
<https://doi.org/10.1016/j.ecolind.2011.05.016>
- Landis, W. G. (2003). The frontiers in ecological risk assessment at expanding spatial and temporal scales. *Human and Ecological Risk Assessment*, 9(6), 1415–1424. <https://doi.org/10.1080/10807030390250912>
- Lazzarini, E., & Nardi, P. (2015). A model of urban ecological security in ordinary cities: Evidences from the milan case. *Economics and Policy of Energy and the Environment*, 2015(1), 29–41.
<https://doi.org/10.4337/9781845423421.00013>
- Lechner, A. M., & Rhodes, J. R. (2016). Recent Progress on Spatial and Thematic Resolution in Landscape Ecology. *Current Landscape Ecology Reports*, 1(2), 98–105. <https://doi.org/10.1007/s40823-016-0011-z>
- Lee, K., Kim, Y., Sung, H. C., Ryu, J., & Jeon, S. W. (2020). *Trend Analysis of Urban Heat Island Intensity According to Urban Area Change in Asian Mega Cities*.
- Lewison, R. L., Rudd, M. A., Al-Hayek, W., Baldwin, C., Beger, M., Lieske, S. N., Jones, C., Satumanatpan, S., Junchompoo, C., & Hines, E. (2016). How the DPSIR framework can be used for structuring problems and facilitating empirical research in coastal systems. *Environmental Science and Policy*, 56, 110–119. <https://doi.org/10.1016/j.envsci.2015.11.001>
- Li, J., Gong, J., Guldmann, J. M., & Yang, J. (2021). Assessment of urban ecological quality and spatial heterogeneity based on remote sensing: A case study of the rapid urbanization of wuhan city. *Remote Sensing*, 13(21).
<https://doi.org/10.3390/rs13214440>
- Li, K., Yu, T., Li, J., Cui, C., & Wu, S. (2021). Optimization of the Method of Constructing Ecological Security Pattern with Rapid Urban Expansion. *E3S Web of Conferences*, 299, 02016.
<https://doi.org/10.1051/e3sconf/202129902016>
- Li, M. (2012). Assessment of Urban Ecosystem Health Based on Attribute Recognition Theory. *Proceedings of the International Conference on Green Communications and Networks (GCN 2011)*, 113, 521–529.
<https://doi.org/10.1007/978-94-007-2169-2>
- Li, S., Wei, H., Ni, X. L., Gu, Y. W., & Li, C. X. (2014). [Evaluation of urban

- human settlement quality in Ningxia based on AHP and the entropy method]. *Ying Yong Sheng Tai Xue Bao*, 25(9), 2700–2708.
<http://www.ncbi.nlm.nih.gov/pubmed/25757325>
- Li, Sucui, Xiao, W., Zhao, Y., & Lv, X. (2020). Incorporating ecological risk index in the multi-process MCRE model to optimize the ecological security pattern in a semi-arid area with intensive coal mining: A case study in northern China. *Journal of Cleaner Production*, 247, 119143.
<https://doi.org/10.1016/j.jclepro.2019.119143>
- Li, Sucui, Xiao, W., Zhao, Y., Xu, J., Da, H., & Lv, X. (2019). Quantitative Analysis of the Ecological Security Pattern for Regional Sustainable Development: Case Study of Chaohu Basin in Eastern China. *Journal of Urban Planning and Development*, 145(3), 1–18.
[https://doi.org/10.1061/\(ASCE\)UP.1943-5444.0000508](https://doi.org/10.1061/(ASCE)UP.1943-5444.0000508)
- Li, Sucui, Zhao, Y., Xiao, W., Yue, W., & Wu, T. (2021). Optimizing ecological security pattern in the coal resource-based city : A case study in Shuo Zhou City , China. *Ecological Indicators*, 130(July), 108026.
<https://doi.org/10.1016/j.ecolind.2021.108026>
- Li, Wan, Qi, C., & Jing, T. (2008). Application of Remote Sensing and GIS for Dynamic Information Analysis of Ecological Security. *Second International Symposium on Intelligent Information Technology Application*, 701–705.
<https://doi.org/10.1109/IITA.2008.528>
- Li, Weifeng, Ouyang, Z., Zhou, W., & Chen, Q. (2011). Effects of spatial resolution of remotely sensed data on estimating urban impervious surfaces. *Journal of Environmental Sciences*, 23(8), 1375–1383.
[https://doi.org/10.1016/S1001-0742\(10\)60541-4](https://doi.org/10.1016/S1001-0742(10)60541-4)
- Li, X., Tian, M., Wang, H., Wang, H., & Yu, J. (2014). Development of an ecological security evaluation method based on the ecological footprint and application to a typical steppe region in China. *Ecological Indicators*, 39, 153–159. <https://doi.org/10.1016/j.ecolind.2013.12.014>
- Li, Y., Sun, X., Zhu, X., & Cao, H. (2010a). An early warning method of landscape ecological security in rapid urbanizing coastal areas and its application in Xiamen, China. *Ecological Modelling*, 221(19), 2251–2260.
<https://doi.org/10.1016/j.ecolmodel.2010.04.016>
- Li, Y., Sun, X., Zhu, X., & Cao, H. (2010b). An early warning method of landscape ecological security in rapid urbanizing coastal areas and its application in Xiamen, China. *Ecological Modelling*, 221(19), 2251–2260.
<https://doi.org/10.1016/j.ecolmodel.2010.04.016>
- Li, Y., Sun, X., Zhu, X., & Cao, H. (2010c). An early warning method of landscape ecological security in rapid urbanizing coastal areas and its application in Xiamen , China. *Ecological Modelling*, 221, 2251–2260.
<https://doi.org/10.1016/j.ecolmodel.2010.04.016>
- Li, Z. J., Tian, Q., & Song, L. L. (2016). Assessment of ecological security based on soil and water conservation: A case study from Gansu Province, China. *IOP Conference Series: Earth and Environmental Science*, 41(1).
<https://doi.org/10.1088/1755-1315/41/1/012009>
- Li, Z., & Linyu, X. (2010). Evaluation indicators for urban ecological security

- based on ecological network analysis. *Procedia Environmental Sciences*, 2(5), 1393–1399. <https://doi.org/10.1016/j.proenv.2010.10.151>
- Li, Z. T., Li, M., & Xia, B. C. (2020). Spatio-temporal dynamics of ecological security pattern of the Pearl River Delta urban agglomeration based on LUCC simulation. *Ecological Indicators*, 114(March). <https://doi.org/10.1016/j.ecolind.2020.106319>
- Li, Z., & Xu, L. (2010). Evaluation indicators for urban ecological security based on ecological network analysis. *Procedia Environmental Sciences*, 2, 1393–1399. <https://doi.org/10.1016/j.proenv.2010.10.151>
- LI, Z., & XU, L. (2010). Evaluation indicators for urban ecological security based on ecological network analysis. *Procedia Environmental Sciences*, 2, 1393–1399. <https://doi.org/10.1016/j.proenv.2010.10.151>
- Liao, W., & Jiang, W. (2020). Evaluation of the spatiotemporal variations in the eco-environmental quality in China based on the remote sensing ecological index. *Remote Sensing*, 12(15). <https://doi.org/10.3390/RS12152462>
- Lin, J., Lin, T., & Cui, S. (2012). Quantitative selection model of ecological indicators and its solving method. *Ecological Indicators*, 13(1), 294–302. <https://doi.org/10.1016/j.ecolind.2011.06.024>
- Lin, M., Lin, T., Sun, C., Jones, L., Sui, J., Zhao, Y., Liu, J., Xing, L., Ye, H., Zhang, G., & Li, X. (2020). Using the Eco-Erosion Index to assess regional ecological stress due to urbanization – A case study in the Yangtze River Delta urban agglomeration. *Ecological Indicators*, 111(December 2019), 106028. <https://doi.org/10.1016/j.ecolind.2019.106028>
- Lin, Q., Mao, J., Wu, J., Li, W., & Yang, J. (2016). Ecological security pattern analysis based on invest and least-cost path model: A case study of Dongguan water village. *Sustainability (Switzerland)*, 8(2). <https://doi.org/10.3390/su8020172>
- Lin, T., Sun, C., Li, X., Zhao, Q., Zhang, G., Ge, R., Ye, H., Huang, N., & Yin, K. (2016). Spatial pattern of urban functional landscapes along an urban–rural gradient: A case study in Xiamen City, China. *International Journal of Applied Earth Observation and Geoinformation*, 46, 22–30. <https://doi.org/10.1016/j.jag.2015.11.014>
- Lin, Y.-P., Lin, W.-C., Wang, Y.-C., Lien, W.-Y., Huang, T., Hsu, C.-C., Schmeller, D. S., & Crossman, N. D. (2017). Systematically designating conservation areas for protecting habitat quality and multiple ecosystem services. *Environmental Modelling & Software*, 90, 126–146. <https://doi.org/10.1016/j.envsoft.2017.01.003>
- Liu, Chaoxian, Wu, X., & Wang, L. (2019). Analysis on land ecological security change and affect factors using RS and GWR in the Danjiangkou Reservoir area, China. *Applied Geography*, 105(June 2018), 1–14. <https://doi.org/10.1016/j.apgeog.2019.02.009>
- Liu, Chunxia, Wang, C., Li, Y., & Wang, Y. (2022). Spatiotemporal differentiation and geographic detection mechanism of ecological security in Chongqing, China. *Global Ecology and Conservation*, 35(February), e02072. <https://doi.org/10.1016/j.gecco.2022.e02072>
- Liu, Dan, & Chang, Q. (2015). Ecological security research progress in China.

- Acta Ecologica Sinica*, 35(5), 111–121.
<https://doi.org/10.1016/j.chnaes.2015.07.001>
- Liu, Delin, & Hao, S. (2017). Ecosystem health assessment at county-scale using the pressure-state-response framework on the loess plateau, China. *International Journal of Environmental Research and Public Health*, 14(1).
<https://doi.org/10.3390/ijerph14010002>
- Liu, J, Heiskanen, J., Aynekulu, E., & Pellikka, P. K. E. (2015). Seasonal Variation Of Land Cover Classification Accuracy Of Landsat 8 Images In Burkina Faso. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XL-7/W3(May), 11–15.
<https://doi.org/10.5194/isprsarchives-XL-7-W3-455-2015>
- Liu, Jinhua, Cao, X., Zhao, L., Dong, G., & Jia, K. (2022). Spatiotemporal Differentiation of Land Ecological Security and Its Influencing Factors: A Case Study in Jinan, Shandong Province, China. *Frontiers in Environmental Science*, 10(February), 1–12. <https://doi.org/10.3389/fenvs.2022.824254>
- Liu, Pei, Jia, S., Han, R., & Zhang, H. (2018). Landscape Pattern and Ecological Security Assessment and Prediction Using Remote Sensing Approach. *Journal of Sensors*, 2018.
<https://doi.org/https://doi.org/10.1155/2018/1058513>
- Liu, Pei, Zhang, X., Ma, C., Zhang, H., Han, R., & Lu, X. (2021). Ecological Security Assessment Based on Remote Sensing and Landscape Ecology Model. *Journal of Sensors*, 2021. <https://doi.org/10.1155/2021/6684435>
- Liu, Pengfei, & Liang, L. (2010). Process of the Ecological Security Research. *Scientific Research*, 627–632.
- Liu, Q., Liu, G., & Huang, C. (2018). Monitoring desertification processes in Mongolian plateau using MODIS tasseled cap transformation and TGSI time series. *Journal of Arid Land*, 10(1), 12–26. <https://doi.org/10.1007/s40333-017-0109-0>
- Liu, W. (2012). Regional ecological security assessment based on long periods of ecological footprint analysis. *2012 2nd International Conference on Remote Sensing, Environment and Transportation Engineering*.
<https://doi.org/10.1109/RSETE.2012.6260675>
- Liu, Yanxu, Peng, J., & Wang, Y. (2017). Diversification of Land Surface Temperature Change under Urban Landscape Renewal : A Case Study in. *Remote Sensing*, 9(919). <https://doi.org/10.3390/rs9090919>
- Liu, Ying, Zhang, J., Wang, S., Wang, Y., & Zhao, A. (2018). Assessment of Environmental Carrying Capacity Using Principal Component Analysis. *Journal of Geoscience and Environment Protection*, 06(03), 54–65.
<https://doi.org/10.4236/gep.2018.63006>
- Liu, Youyan, Zhao, C., Liu, X., Chang, Y., Wang, H., Yang, J., Yang, X., & Wei, Y. (2021). The multi-dimensional perspective of ecological security evaluation and drive mechanism for Baishuijiang National Nature Reserve, China. *Ecological Indicators*, 132, 108295.
<https://doi.org/10.1016/j.ecolind.2021.108295>
- Lo, C. P. (2001). Modeling the Population of China Using DMSP Operational Linescan System Nighttime Data. *Photogrammetric Engineering & Remote*

- Sensing*, 67(9), 1037–1047.
- Lo, P. (1986). Accuracy of Population Estimation from Medium-Scale Aerial Photography *. *Photogrammetric Engineering & Remote Sensing*, 52(12), 1859–1869.
- Longley, P. (2002). Geographical Information Systems: will developments in urban remote sensing and GIS lead to “better” urban geography? *Progress in Human Geography*, 26(2), 231–239.
<https://doi.org/10.1191/0309132502ph366pr>
- Lossack, H., Mayer, C., Prem, I., Probst, K., Riha, K., & Uebelhoer, K. (2012). *Mengintegrasikan Jasa Ekosistem ke dalam Perencanaan Pembangunan Pendekatan selangkah demi selangkah bagi praktisi berdasarkan*.
- Lu, B., Charlton, M., & Fotheringham, A. S. (2011). Geographically Weighted Regression using a non-Euclidean distance metric with a study on London house price data. *Procedia Environmental Sciences*, 7, 92–97.
<https://doi.org/10.1016/j.proenv.2011.07.017>
- Lu, D., & Weng, Q. (2007). A survey of image classification methods and techniques for improving classification performance. *International Journal of Remote Sensing*, 28(5), 823–870.
<https://doi.org/10.1080/01431160600746456>
- Lu, Dengsheng, Herick, S., Moran, E., & Li, G. (2010). Detection of Urban Expansion In An Urban-rural Landscape With Multitemporal QuickBird Images. *J. Appl. Remote Sensing*, 23(4), 1–22.
<https://doi.org/10.1117/1.3501124>
- Lu, Shan-long, Zou, L., Shen, X., Wu, W., & Zhang, W. (2011). Multi-spectral remote sensing image enhancement method based on PCA and IHS transformations. *Journal of Zhejiang University-SCIENCE A*, 12(6), 453–460. <https://doi.org/10.1631/jzus.A1000282>
- Lu, Shasha, Qin, F., Chen, N., Yu, Z., Xiao, Y., Cheng, X., & Guan, X. (2019). Spatiotemporal differences in forest ecological security warning values in Beijing: Using an integrated evaluation index system and system dynamics model. *Ecological Indicators*, 104(May), 549–558.
<https://doi.org/10.1016/j.ecolind.2019.05.015>
- Lu, Yi, Wang, X., Xie, Y., Li, K., & Xu, Y. (2016). Integrating Future Land Use Scenarios to Evaluate the Spatio-Temporal Dynamics of Landscape Ecological Security. *Sustainability*, 8(12), 1242.
<https://doi.org/10.3390/su8121242>
- Lu, Yuwen, Zhai, G., Zhou, S., & Shi, Y. (2020). Risk reduction through urban spatial resilience: A theoretical framework. *Human and Ecological Risk Assessment*, 27(4), 1–17. <https://doi.org/10.1080/10807039.2020.1788918>
- Luca Congedo. (2021). *Semi-Automatic Classification Plugin Documentation Release 7.9.5.1. August*.
<https://media.readthedocs.org/pdf/semiautomaticclassificationmanual-v4/latest/semiautomaticclassificationmanual-v4.pdf>
- Ma, Q., Wu, J., He, C., & Hu, G. (2018). Spatial scaling of urban impervious surfaces across evolving landscapes: From cities to urban regions. *Landscape and Urban Planning*, 175(September 2017), 50–61.

- <https://doi.org/10.1016/j.landurbplan.2018.03.010>
- Ma, T., Zhang, X., Yang, Z., Han, F., Shi, H., Wang, C., & Liu, Q. (2016). Plateau mountain eco-security early warning research. *Polish Journal of Environmental Studies*, 25(3), 1093–1105. <https://doi.org/10.15244/pjoes/61672>
- Ma, Y., & Xu, R. (2010). Remote sensing monitoring and driving force analysis of urban expansion in Guangzhou City, China. *Habitat International*, 34(2), 228–235. <https://doi.org/10.1016/j.habitatint.2009.09.007>
- Maktav, D., Erbek, F. S., & Jürgens, C. (2005). Remote sensing of urban areas. *International Journal of Remote Sensing*, 1161(2005). <https://doi.org/10.1080/01431160512331316469>
- Mallat, S. G. (1989). Multifrequency Channel Decompositions of Images and Wavelet Models. *IEEE Transactions on Acoustics, Speech, and Signal Processing*, 37(12), 2091–2110.
- Mansouri Daneshvar, M. R., Khatami, F., & Zahed, F. (2017). Ecological carrying capacity of public green spaces as a sustainability index of urban population: a case study of Mashhad city in Iran. *Modeling Earth Systems and Environment*, 3(3), 1161–1170. <https://doi.org/10.1007/s40808-017-0364-2>
- Mao, X., Meng, J., & Xiang, Y. (2013). Cellular automata-based model for developing land use ecological security patterns in semi-arid areas: A case study of Ordos, Inner Mongolia, China. *Environmental Earth Sciences*, 70(1), 269–279. <https://doi.org/10.1007/s12665-012-2125-x>
- Marten, G. (2005). Environmental tipping points: A new paradigm for restoring ecological security. *Journal of Policy Studies (Japan)*, 20(20), 75–87. http://www.gerrymarten.com/publicatons/pdfs/ETP_Restoring-Ecological-Security.pdf
- Marzluff, J. M., Shulenberger, E., Endlicher, W., Alberti, M., Bradley, G., ZumBrunnen, C. R. C., & Simon, U. (2008). Urban ecological An International Perspective on the Interaction Between Humans and Nature. In *Springer*. Springer. https://doi.org/10.1007/978-0-387-73412-5_35
- Mas, J. F., Filho, B. S., Pontius, R. G., Gutiérrez, M. F., & Rodrigues, H. (2013). A suite of tools for ROC analysis of spatial models. *ISPRS International Journal of Geo-Information*, 2(3), 869–887. <https://doi.org/10.3390/ijgi2030869>
- Mathews, J. T. (1989). Redefining Security. *Foreign Affairs*, 68(2), 162–177.
- McDonnell, M. J. (2011). The History of Urban Ecology An Ecologist's Perspective. In J. Niemelä, J. H. Breuste, T. Elmqvist, G. Guntenspergen, P. James, & N. E. McIntyre (Eds.), *Urban Ecology: Patterns, Processes and Applications* (pp. 5–13). Oxford University Press. <https://doi.org/10.1093/ac>
- McDonnell, M. J., & Hahs, A. K. (2008). The use of gradient analysis studies in advancing our understanding of the ecology of urbanizing landscapes: Current status and future directions. *Landscape Ecology*, 23(10), 1143–1155. <https://doi.org/10.1007/s10980-008-9253-4>
- McIntyre, N. E. (2000). Ecology of Urban Arthropods : A Review and a Call to Action. *Annals of the Entomological Society of America*, 93(4), 825–835.
- Meng, F., Liang, X., Xiao, C., & Wang, G. (2021). Integration of GIS, improved

- entropy and improved catastrophe methods for evaluating suitable locations for well drilling in arid and semi-arid plains. *Ecological Indicators*, 131, 108124. <https://doi.org/10.1016/j.ecolind.2021.108124>
- Meng, J., & Yang, Y. (2012). Symmetrical two-dimensional pca with image measures in face recognition. *International Journal of Advanced Robotic Systems*, 9, 1–10. <https://doi.org/10.5772/54014>
- Mengist, W., Soromessa, T., & Feyisa, G. L. (2021). Landscape change effects on habitat quality in a forest biosphere reserve: Implications for the conservation of native habitats. *Journal of Cleaner Production*, 329(May), 129778. <https://doi.org/10.1016/j.jclepro.2021.129778>
- Mesev, T. V., Longley, P. A., Batty, M., & Xie, Y. (1995). Morphology from Imagery: Detecting and Measuring the Density of Urban Land Use. *Environment and Planning A: Economy and Space*, 27(5), 759–780. <https://doi.org/10.1068/a270759>
- Miller, J. A., & Rogan, J. (2007). *Using GIS and remote sensing for ecological mapping and monitoring*.
- Mitchell, J. K. (1999). Megacities and natural disasters: a comparative analysis*. *GeoJournal*, 49(2), 137–142. <https://doi.org/10.1023/A:1007024703844>
- Mohammad Karimi Firozjaei, Seyed Kazem Alavipanah, Hua Liu , Amir Sedighi , Naeim Mijani, M. K. and Q. W. (2019). A PCA – OLS Model for Assessing the Impact of Temperature Variations. *Remote Sensing (MDPI)*, 11(2094). <https://doi.org/doi:10.3390/rs11182094>
- Mori, K., Fujii, T., Yamashita, T., Mimura, Y., Uchiyama, Y., & Hayashi, K. (2015). Visualization of a City Sustainability Index (CSI): Towards Transdisciplinary Approaches Involving Multiple Stakeholders. *Sustainability*, 7, 12402–12424. <https://doi.org/10.3390/su70912402>
- Mori, K., & Yamashita, T. (2015). Methodological framework of sustainability assessment in City Sustainability Index (CSI): A concept of constraint and maximisation indicators. *Habitat International*, 45, 10–14.
- Morisette, J. T., Baret, F., Privette, J. L., Myneni, R. B., Nickeson, J. E., Garrigues, S., Shabanov, N. V., Weiss, M., Fernandes, R. A., Leblanc, S. G., Kalacska, M., Sanchez-Azofeifa, G. A., Chubey, M., Rivard, B., Stenberg, P., Rautiainen, M., Voipio, P., Manninen, T., Pilant, A. N., ... Cook, R. (2006). Validation of global moderate-resolution LAI products: a framework proposed within the CEOS land product validation subgroup. *IEEE Transactions on Geoscience and Remote Sensing*, 44(7), 1804–1817. <https://doi.org/10.1109/TGRS.2006.872529>
- Mountrakis, G., Im, J., & Ogole, C. (2011a). Support vector machines in remote sensing: A review. *ISPRS Journal of Photogrammetry and Remote Sensing*, 66(3), 247–259. <https://doi.org/10.1016/j.isprsjprs.2010.11.001>
- Mountrakis, G., Im, J., & Ogole, C. (2011b). Support vector machines in remote sensing: A review. *ISPRS Journal of Photogrammetry and Remote Sensing*, 66(3), 247–259. <https://doi.org/10.1016/J.ISPRSJPRS.2010.11.001>
- Mudede, M. F., Newete, S. W., Abutaleb, K., & Nkongolo, N. (2020). Monitoring the urban environment quality in the city of Johannesburg using remote sensing data. *Journal of African Earth Sciences*, 171(July), 103969.

- <https://doi.org/10.1016/j.jafrearsci.2020.103969>
- Muhammad Reza Pahlevi, Syariffudin Yusuf, A. (2020). Journal of Indonesian History. *Journal of Indonesian History*, 9(2), 167–177.
- Murakami, D., Yoshida, T., Seya, H., Griffith, D. A., & Yamagata, Y. (2017). A Moran coefficient-based mixed effects approach to investigate spatially varying relationships. *Spatial Statistics*, 19, 68–89.
<https://doi.org/10.1016/j.spasta.2016.12.001>
- Mustafa, E. K., Co, Y., Liu, G., Kaloop, M. R., Beshr, A. A., Zarzoura, F., & Sadek, M. (2020). Study for Predicting Land Surface Temperature (LST) Using Landsat Data: A Comparison of Four Algorithms. *Advances in Civil Engineering*, 2020. <https://doi.org/10.1155/2020/7363546>
- Naboureh, A., Bian, J., Lei, G., & Li, A. (2021). A review of land use/land cover change mapping in the China-Central Asia-West Asia economic corridor countries. *Big Earth Data*, 5(2), 237–257.
<https://doi.org/10.1080/20964471.2020.1842305>
- Nadeem Ullah, Muhammad Amir Siddique, Mengyue Ding, Sara Grigoryan, T. Z. and Y. H. (2022). Spatiotemporal Impact of Urbanization on Urban Heat Island. *Buildings*, 12(399), 1–16.
- Nafiah. (2012). *Dampak Kawasan Industri Genuk Terhadap Masyarakat Sekitar (Studi Kasus : LIK Bugangan Baru Kota Semarang)*. Universitas Diponegoro.
- Nagendra, H., Lucas, R., Honrado, J. P., Jongman, R. H. G., Tarantino, C., Adamo, M., & Mairota, P. (2013). Remote sensing for conservation monitoring: Assessing protected areas, habitat extent, habitat condition, species diversity, and threats. *Ecological Indicators*, 33, 45–59.
<https://doi.org/10.1016/j.ecolind.2012.09.014>
- Nagler, P. L., Glenn, E. P., & Hinojosa-Huerta, O. (2009). Synthesis of ground and remote sensing data for monitoring ecosystem functions in the Colorado River Delta, Mexico. *Remote Sensing of Environment*, 113(7), 1473–1485.
<https://doi.org/10.1016/j.rse.2008.06.018>
- Naim, M. N. H., & Kafy, A. A. (2021). Assessment of urban thermal field variance index and defining the relationship between land cover and surface temperature in Chattogram city: A remote sensing and statistical approach. *Environmental Challenges*, 4(March), 100107.
<https://doi.org/10.1016/j.envc.2021.100107>
- Nana Cui, C. F. (2015). Regional Ecological Security Assessment: A Case Study of Tongling City, Anhui Province. *Forest Research: Open Access*, 04(01), 1–7. <https://doi.org/10.4172/2168-9776.1000132>
- Napiórkowski, J., Szczyglak, P., & Langer, A. (2019). Management of the ecological safety of urban zones in terms of sources of power supply for buses Management of the ecological safety of urban zones in terms of sources of power supply for buses. *IOP Conf. Series: Materials Science and Engineering*. <https://doi.org/10.1088/1757-899X/507/1/012031>
- Nelson, E., Ennaanay, D., Wolny, S., Olwero, N., Vigerstol, K., Pennington, D., Mendoza, G., Aukema, J., Foster, J., Forrest, J., Cameron, D., Arkema, K., Lonsdorf, E., Kennedy, C., Verutes, G., Kim, C.-K., Guannel, G., Papenfus,

- M., Toft, J., ... Bierbower, W. (2018). InVEST User Guide. *National Capital Project*. http://data.naturalcapitalandresilienceplatform.org/invest-releases/documentation/current_release/index.html
- Nemani, R., Hashimoto, H., Votava, P., Melton, F., Wang, W., Michaelis, A., Mutch, L., Milesi, C., Hiatt, S., & White, M. (2009). Monitoring and forecasting ecosystem dynamics using the Terrestrial Observation and Prediction System (TOPS). *Remote Sensing of Environment*, 113(7), 1497–1509. <https://doi.org/https://doi.org/10.1016/j.rse.2008.06.017>
- Newbold, T., Hudson, L. N., Hill, S. L. L., Contu, S., Lysenko, I., Senior, R. A., Börger, L., Bennett, D. J., Choimes, A., Collen, B., Day, J., De Palma, A., Díaz, S., Echeverria-Londoño, S., Edgar, M. J., Feldman, A., Garon, M., Harrison, M. L. K., Alhousseini, T., ... Purvis, A. (2015). Global effects of land use on local terrestrial biodiversity. *Nature*, 520(7545), 45–50. <https://doi.org/10.1038/nature14324>
- Nichol, J., & Lee, C. M. (2005). Urban vegetation monitoring in Hong Kong using high resolution multispectral images. *International Journal of Remote Sensing*, 26(5), 903–918. <https://doi.org/10.1080/01431160412331291198>
- Nie, C., Yang, J., & Huang, C. (2016). Assessing the Habitat Quality of Aquatic Environments in Urban Beijing. *Procedia Environmental Sciences*, 36, 162–168. <https://doi.org/10.1016/j.proenv.2016.09.027>
- Niemela, J. (2000). Is there a need for a theory of urban ecology? *Urban Ecosystems*, 3(1996), 57–65. <https://doi.org/10.1023/a:1008817325994>
- Nilsson, C., & Grelsson, G. (1995). The Fragility of Ecosystems: A Review. *The Journal of Applied Ecology*, 32(4), 677. <https://doi.org/10.2307/2404808>
- Nkeki, F. N., & Asikhia, M. O. (2019). Geographically weighted logistic regression approach to explore the spatial variability in travel behaviour and built environment interactions: Accounting simultaneously for demographic and socioeconomic characteristics. *Applied Geography*, 108(October 2018), 47–63. <https://doi.org/10.1016/j.apgeog.2019.05.008>
- Nong, D. H., Lepczyk, C. A., Miura, T., & Fox, J. M. (2018). Quantifying urban growth patterns in Hanoi using landscape expansion modes and time series spatial metrics. *PLoS ONE*, 13(5), 1–18. <https://doi.org/10.1371/journal.pone.0196940>
- Nuissl, H., Haase, D., Lanzendorf, M., & Wittmer, H. (2009). Environmental impact assessment of urban land use transitions-A context-sensitive approach. *Land Use Policy*, 26(2), 414–424. <https://doi.org/10.1016/j.landusepol.2008.05.006>
- Ochoa, V., & Urbina-Cardona, N. (2017). Tools for spatially modeling ecosystem services: Publication trends, conceptual reflections and future challenges. *Ecosystem Services*, 26, 155–169. <https://doi.org/10.1016/J.ECOSER.2017.06.011>
- Odum, H. T. (1983). *Systems ecology ; An introduction*.
- OECD. (2003). USING THE PRESSURE-STATE-RESPONSE MODEL TO DEVELOP INDICATORS OF SUSTAINABILITY. Framework for Environmental Indicators. In *Agriculture* (pp. 1–11). <https://doi.org/DESA/DSD/2001/3>

- Oguztimur, S. (2011). Why fuzzy analytic hierarchy process approach for transport problems? *European Regional Science Association, September*, 438. <https://www.researchgate.net/publication/254457609>
- Omernik, J. M. (1987). Ecoregions of the Conterminous United States. *Annals of the Association of American Geographers*, 77(1), 118–125. <https://doi.org/10.1111/j.1467-8306.1987.tb00149.x>
- Omernik, J. M. (1995). *Ecoregions : A Framework for Managing Ecosystems* Author (s): James M . Omernik Published by : George Wright Society Stable URL : <https://www.jstor.org/stable/43597408> *Ecoregions : A Framework for Managing Ecosystems*. 12(1), 35–50.
- Osborne, T. M., Lawrence, D. M., Slingo, J. M., Challinor, A. J., & Wheeler, T. R. (2004). Influence of vegetation on the local climate and hydrology in the tropics: Sensitivity to soil parameters. *Climate Dynamics*, 23(1), 45–61. <https://doi.org/10.1007/s00382-004-0421-1>
- Osuna, R. F. and F. G. (1997). Support vector machines and applications. In *Massachusetts Institute Of Technology Artificial Intelligence Laboratory And Center For Biological And Computational Learning Department Of Brain And Cognitive Sciences* (Issue March). <https://doi.org/10.4018/978-1-5225-5204-8.ch057>
- Paredes-Trejo, F., Alves Barbosa, H., Venkata Lakshmi Kumar, T., Kumar Thakur, M., & de Oliveira Buriti, C. (2021). Assessment of the CHIRPS-Based Satellite Precipitation Estimates. *Inland Waters - Dynamics and Ecology, March*. <https://doi.org/10.5772/intechopen.91472>
- Paredes-Trejo, F. J., Barbosa, H. A., & Lakshmi Kumar, T. V. (2017). Validating CHIRPS-based satellite precipitation estimates in Northeast Brazil. *Journal of Arid Environments*, 139, 26–40. <https://doi.org/10.1016/j.jaridenv.2016.12.009>
- Park, S., Jeon, S., Kim, S., & Choi, C. (2011). Prediction and comparison of urban growth by land suitability index mapping using GIS and RS in South Korea. *Landscape and Urban Planning*, 99(2), 104–114. <https://doi.org/10.1016/j.landurbplan.2010.09.001>
- Pei-wu, Gui-cai, L., Jin-hua, Z., Feng, X., & Li, C. (2009). Several assessment models and application analysis of urban ecological security. *Environment and Ecology*, 28(2), 293–302. <https://doi.org/10.11821/yj2009020003>
- Pei, L., Du, L., & Yue, G. (2010). Ecological Security Assessment of Beijing Based on PSR Model. *Procedia Environmental Sciences*, 2(5), 832–841. <https://doi.org/10.1016/j.proenv.2010.10.094>
- Pelling, M. (2003). *The Vulnerability of Cities Natural Disasters and Social Resilience*. Earthscan Publications Ltd.
- Peng, B., Huang, Q., Elahi, E., & Wei, G. (2019). Ecological environment vulnerability and driving force of Yangtze River Urban agglomeration. *Sustainability (Switzerland)*, 11(23). <https://doi.org/10.3390/su11236623>
- Peng, J., Pan, Y., Liu, Y., Zhao, H., & Wang, Y. (2018). Linking ecological degradation risk to identify ecological security patterns in a rapidly urbanizing landscape. *Habitat International*, 71(October 2017), 110–124. <https://doi.org/10.1016/j.habitatint.2017.11.010>

- Peng, J., Wang, A., Liu, Y., Ma, J., & Wu, J. (2015). Research progress and prospect on measuring urban ecological land demand. *Dili Xuebao/Acta Geographica Sinica*, 70(2), 333–346.
<https://doi.org/10.11821/dlxb201502013>
- Peng, J., Yang, Y., Liu, Y., Hu, Y., Du, Y., Meersmans, J., & Qiu, S. (2018). Linking ecosystem services and circuit theory to identify ecological security patterns. *Science of the Total Environment*, 644, 781–790.
<https://doi.org/10.1016/j.scitotenv.2018.06.292>
- Peng, J., Zhao, S., Dong, J., Liu, Y., Meersmans, J., Li, H., & Wu, J. (2019). Applying ant colony algorithm to identify ecological security patterns in megacities. *Environmental Modelling and Software*, 117(September 2018), 214–222. <https://doi.org/10.1016/j.envsoft.2019.03.017>
- Peng, S., Piao, S., Ciais, P., Friedlingstein, P., Ottle, C., Bréon, F.-M., Nan, H., Zhou, L., & Myneni, R. B. (2012). Surface Urban Heat Island Across 419 Global Big Cities. *Environmental Science & Technology*, 46(2), 696–703.
<https://doi.org/10.1021/es2030438>
- Peraturan Menteri. (2021). Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor 27 Tahun 2021 Tentang Indeks Kualitas Lingkungan Hidup. *Sekretariat Negara Republik Indonesia*, 10–27.
- Perini, K., & Magliocco, A. (2014). Effects of vegetation, urban density, building height, and atmospheric conditions on local temperatures and thermal comfort. *Urban Forestry & Urban Greening*, 13(3), 495–506.
<https://doi.org/https://doi.org/10.1016/j.ufug.2014.03.003>
- Permanahadi, A., & Widowati, E. (2021). Mitigasi bencana banjir di kota semarang. *Higeia Journal of Public Health Research and Development*, 5(3), 227–238.
- Peterson, T. C. (2003). Assessment of urban versus rural in situ surface temperatures in the contiguous United States: No difference found. *Journal of Climate*, 16(18), 2941–2959. [https://doi.org/10.1175/1520-0442\(2003\)016<2941:AOUVRI>2.0.CO;2](https://doi.org/10.1175/1520-0442(2003)016<2941:AOUVRI>2.0.CO;2)
- Pettorelli, Nathalie, & Skidmore, A. (2015). Agree on biodiversity metrics to track from space. *Nature*, 523(23 Juli), 403–495.
- Pettorelli, Nathalie, Lurance, W. F., Brien, T. G. O., Wegmann, M., Nagendra, H., & Turner, W. (2014). Satellite remote sensing for applied ecologists : opportunities and challenges. *Journal of Applied Ecology*, 51, 839–848.
<https://doi.org/10.1111/1365-2664.12261>
- Pettorelli, Nathalie, Wegmann, M., Skidmore, A., Múcher, S., Dawson, T. P., Fernandez, M., Lucas, R., Schaepman, M. E., Wang, T., O'Connor, B., Jongman, R. H. G., Kempeneers, P., Sonnenschein, R., Leidner, A. K., Böhm, M., He, K. S., Nagendra, H., Dubois, G., Fatoyinbo, T., ... Geller, G. N. (2016). Framing the concept of satellite remote sensing essential biodiversity variables: challenges and future directions. *Remote Sensing in Ecology and Conservation*, 2(3), 122–131. <https://doi.org/10.1002/rse2.15>
- Phinn, S., Stanford, M., Scarth, P., Murray, A. T., & Shyy, P. T. (2002). Monitoring the composition of urban environments based on the vegetation-impervious surface-soil (VIS) model by subpixel analysis techniques.

- International Journal of Remote Sensing*, 23(20), 4131–4153.
<https://doi.org/10.1080/01431160110114998>
- Piccini, C., Marchetti, A., & Francaviglia, R. (2014). Estimation of soil organic matter by geostatistical methods: Use of auxiliary information in agricultural and environmental assessment. *Ecological Indicators*, 36, 301–314.
<https://doi.org/10.1016/j.ecolind.2013.08.009>
- Pickett, S. T.A., Cadenasso, M. L., Grove, J. M., Boone, C. G., Groffman, P. M., Irwin, E., Kaushal, S. S., Marshall, V., McGrath, B. P., Nilon, C. H., Pouyat, R. V., Szlavecz, K., Troy, A., & Warren, P. (2011). Urban ecological systems: Scientific foundations and a decade of progress. *Journal of Environmental Management*, 92(3), 331–362.
<https://doi.org/10.1016/j.jenvman.2010.08.022>
- Pickett, S. T.A., Cadenasso, M. L., Grove, J. M., Nilon, C. H., Pouyat, R. V., Zipperer, W. C., & Costanza, R. (2001). Urban ecological systems: Linking terrestrial ecological, physical, and socioeconomic components of metropolitan areas. *Annual Review of Ecology and Systematics*, 32(1), 127–157. https://doi.org/10.1007/978-0-387-73412-5_7
- Pickett, S T A, Cadenasso, M. L., & Mcgrath, B. (2013). *Ecology of the City as a Bridge to Urban Design* (Vol. 3, pp. 7–28). <https://doi.org/10.1007/978-94-007-5341-9>
- Pickett, Steward T. A., Cadenasso, M. L., Childers, D. L., McDonnell, M. J., & Zhou, W. (2016). Evolution and future of urban ecological science: ecology in, of, and for the city. *Ecosystem Health and Sustainability*, 2(7), e01229. <https://doi.org/10.1002/ehs2.1229>
- Pickett, Steward T. A., Cadenasso, M. L., Childers, D. L., McDonnell, M. J., & Zhou, W. (2016). Evolution and future of urban ecological science: ecology in , of , and for the city. *Ecosystem Health and Sustainability*, 2(7), e01229. <https://doi.org/10.1002/ehs2.1229>
- Pickett, Steward T. A., Cadenasso, M. L., Grove, J. M., Groffman, P. M., Band, L. E., Boone, C. G., Burch, W. R., Grimmond, C. S. B., Hom, J., Jenkins, J. C., Law, N. L., Nilon, C. H., Pouyat, R. V., Szlavecz, K., Warren, P. S., & Wilson, M. A. (2008). Beyond Urban Legends: An Emerging Framework of Urban Ecology, as Illustrated by the Baltimore Ecosystem Study. *BioScience*, 58(2), 139–150. <https://doi.org/10.1641/B580208>
- Pickett, Steward T.A., Cadenasso, M. L., Childers, D. L., McDonnell, M. J., & Zhou, W. (2016). Evolution and future of urban ecological science: ecology in, of, and for the city. *Ecosystem Health and Sustainability*, 2(7). <https://doi.org/10.1002/ehs2.1229>
- Pineda Jaimes, N. B., Bosque Sendra, J., Gómez Delgado, M., & Franco Plata, R. (2010). Exploring the driving forces behind deforestation in the state of Mexico (Mexico) using geographically weighted regression. *Applied Geography*, 30(4), 576–591. <https://doi.org/10.1016/J.APGEOG.2010.05.004>
- Pirages, D. (2008). *Demographic Change and Ecological Security* (Issue 3, pp. 37–46).
- Pirages, D. C., & DeGeest, T. M. (2004). *Ecological Security An Evolutionary Perspective on Globalization*. Rowman & Littlefield Publishers, Inc.

- Postek, P., Leń, P., & Stręk, Ż. (2019). The proposed indicator of fragmentation of agricultural land. *Ecological Indicators*, 103, 581–588.
<https://doi.org/https://doi.org/10.1016/j.ecolind.2019.04.023>
- Prashati, Ashok, Saxena Maneesh, Saxena Shakti, S. D. (2011). Landform Analysis and Classification with Geographic Information System & Remote Sensing- A micro level study. *International Journal of Earth Sciences and Engineering*, 4(6), 330–333.
- Prasomsup, W., Piyatadsananon, P., Aunphoklang, W., & Boonrang, A. (2020). Extraction technic for built-up area classification in Landsat 8 imagery. *International Journal of Environmental Science and Development*, 11(1), 15–20. <https://doi.org/10.18178/ijesd.2020.11.1.1219>
- Prieto-Amparan, J. A., Villarreal-Guerrero, F., Martinez-Salvador, M., Manjarrez-Domínguez, C., Santellano-Estrada, E., & Pinedo-Alvarez, A. (2018). Atmospheric and radiometric correction algorithms for the multitemporal assessment of grasslands productivity. *Remote Sensing*, 10(2).
<https://doi.org/10.3390/rs10020219>
- Qian, F., Zhang, J., & Gu, H. (2019). Evaluation of cultivated land ecological security based on PSR model. *Revista de La Facultad de Agronomia*, 36(5), 1419–1429.
- Qian, Yao, Tang, L., Qiu, Q., Xu, T., & Liao, J. (2015). A comparative analysis on assessment of land carrying capacity with ecological footprint analysis and index system method. *PLoS ONE*, 10(6), 1–17.
<https://doi.org/10.1371/journal.pone.0130315>
- Qian, Yuguo, Zhou, W., Li, W., & Han, L. (2015). Understanding the dynamic of greenspace in the urbanized area of Beijing based on high resolution satellite images. *Urban Forestry & Urban Greening*, 14(1), 39–47.
<https://doi.org/https://doi.org/10.1016/j.ufug.2014.11.006>
- Qian, Yuguo, Zhou, W., Yu, W., & Pickett, S. T. A. (2015). Quantifying spatiotemporal pattern of urban greenspace: new insights from high resolution data. *Landscape Ecology*, 30(7), 1165–1173.
<https://doi.org/10.1007/s10980-015-0195-3>
- Qiu, M., Yang, Z., Zuo, Q., Wu, Q., Jiang, L., Zhang, Z., & Zhang, J. (2021). Evaluation on the relevance of regional urbanization and ecological security in the nine provinces along the Yellow River, China. *Ecological Indicators*, 132, 108346. <https://doi.org/10.1016/j.ecolind.2021.108346>
- Qiu, W., & Zhao, Q. (2008). Ecological Security Analysis : A case study in Heilongjiang Province of China. *IEEE*, 4421–4425.
- Rachmawati, R., Rijanta, R., & Djunaedi, A. (2015). Location decentralization due to the use of information and communication technology: Empirical evidence from Yogyakarta, Indonesia. *Human Geographies*, 9(1), 5–15.
<https://doi.org/10.5719/hgeo.2015.91.1>
- Rachmawati, R., Rijanta, R. R. R., & Subanu, L. P. (2004). PERANAN KAMPUS SEBAGAI PEMICU URBANISASI SPASIAL DI PINGGIRAN KOTA YOGYAKARTA. *Majalah Geografi Indonesia*, 18(1), 45.
- Rahman, A. (2009). Environmental Issues Using Remote Sensing And Gis Techniques : An Integrated Approach . A Case Study : Delhi , India. *Urban*

- Population Environment Dynamic in the Developing World.*
- Rao, Y., Dai, J., Dai, D., He, Q., & Wang, H. (2021). Effect of compactness of urban growth on regional landscape ecological security. *Land*, 10(8).
<https://doi.org/10.3390/land10080848>
- Rebele, F. (1994). Urban Ecology and Special Features of Urban Ecosystems. *Global Ecology and Biogeography Letters*, 4(6), 173–187.
- Reza, M. I. H., & Abdullah, S. A. (2011). Regional Index of Ecological Integrity: A need for sustainable management of natural resources. *Ecological Indicators*, 11(2), 220–229. <https://doi.org/10.1016/j.ecolind.2010.08.010>
- Ridd, M. K. (1995). Exploring a V-I-S (vegetation-impervious surface-soil) model for urban ecosystem analysis through remote sensing: comparative anatomy for cities. *International Journal of Remote Sensing*, 16(12), 2165–2185.
- Riedler, B., & Lang, S. (2018). A spatially explicit patch model of habitat quality, integrating spatio-structural indicators. *Ecological Indicators*, 94, 128–141.
<https://doi.org/https://doi.org/10.1016/j.ecolind.2017.04.027>
- Road, X. K., Zeng, W., & Road, X. K. (2010). Research Progress of Land Ecological Security Evaluation in China. *Journal of Geography and Geology*, 2(1), 48–57.
- Rocchini, D., Petras, V., Petrasova, A., Horning, N., Furtkevicova, L., Neteler, M., Leutner, B., & Wegmann, M. (2017). Open data and open source for remote sensing training in ecology. *Ecological Informatics*, 40(May), 57–61.
<https://doi.org/10.1016/j.ecoinf.2017.05.004>
- Rockfeller, F. (2016). *Resilient Semarang Moving Together Towards a Resilient Semarang*. Mercy Corp.
- Rogan, J., Franklin, J., & Roberts, D. A. (2002). A comparison of methods for monitoring multitemporal vegetation change using Thematic Mapper imagery. *Remote Sensing of Environment*, 80(1), 143–156.
[https://doi.org/https://doi.org/10.1016/S0034-4257\(01\)00296-6](https://doi.org/https://doi.org/10.1016/S0034-4257(01)00296-6)
- Romero-Calcerrada, R., & Luque, S. (2006). Habitat quality assessment using Weights-of-Evidence based GIS modelling: The case of *Picoides tridactylus* as species indicator of the biodiversity value of the Finnish forest. *Ecological Modelling*, 196(1–2), 62–76.
<https://doi.org/10.1016/j.ecolmodel.2006.02.017>
- Ronald N. Giere. (1991). *Understanding Scientific Reasoning* (Third edit). Harcourt Brace Jovanovich College College Publishersp.
- Roy, D. P., Wulder, M. A., Loveland, T. R., C.E., W., Allen, R. G., Anderson, M. C., Helder, D., Irons, J. R., Johnson, D. M., Kennedy, R., Scambos, T. A., Schaaf, C. B., Schott, J. R., Sheng, Y., Vermote, E. F., Belward, A. S., Bindschadler, R., Cohen, W. B., Gao, F., ... Zhu, Z. (2014a). Landsat-8: Science and product vision for terrestrial global change research. *Remote Sensing of Environment*, 145, 154–172.
<https://doi.org/10.1016/j.rse.2014.02.001>
- Roy, D. P., Wulder, M. A., Loveland, T. R., C.E., W., Allen, R. G., Anderson, M. C., Helder, D., Irons, J. R., Johnson, D. M., Kennedy, R., Scambos, T. A., Schaaf, C. B., Schott, J. R., Sheng, Y., Vermote, E. F., Belward, A. S., Bindschadler, R., Cohen, W. B., Gao, F., ... Zhu, Z. (2014b). Landsat-8:

- Science and product vision for terrestrial global change research. *Remote Sensing of Environment*, 145, 154–172.
<https://doi.org/10.1016/J.RSE.2014.02.001>
- Roy, David P. (2000). The impact of misregistration upon composited wide field of view satellite data and implications for change detection. *IEEE Transactions on Geoscience and Remote Sensing*, 38(4 II), 2017–2032.
<https://doi.org/10.1109/36.851783>
- Roychansyah, M. S., & Felasari, S. (2018). *Does ICT make city compactness higher ? Evidences from compact city attributes in Yogyakarta City ' s districts . Does ICT make city compactness higher ? Evidences from compact city attributes in Yogyakarta City ' s districts .* <https://doi.org/10.1088/1755-1315/213/1/012035>
- Ruan, W., Li, Y., Zhang, S., & Liu, C. H. (2019). Evaluation and drive mechanism of tourism ecological security based on the DPSIR-DEA model. *Tourism Management*, 75(December 2018), 609–625.
<https://doi.org/10.1016/j.tourman.2019.06.021>
- Russo, R. D. F. S. M., & Camanho, R. (2015). Criteria in AHP: A systematic review of literature. *Procedia Computer Science*, 55(Itqm), 1123–1132.
<https://doi.org/10.1016/j.procs.2015.07.081>
- Rykiel, E. J. (1996). Testing ecological models: The meaning of validation. *Ecological Modelling*. [https://doi.org/10.1016/0304-3800\(95\)00152-2](https://doi.org/10.1016/0304-3800(95)00152-2)
- Saaty, R. W. (1987). The analytic hierarchy process-what it is and how it is used. *Mathematical Modelling*, 9(3–5), 161–176. [https://doi.org/10.1016/0270-0255\(87\)90473-8](https://doi.org/10.1016/0270-0255(87)90473-8)
- Saaty, T. L. (2008). Decision making with the analytic hierarchy process. *International Journal of Services Sciences*, 1(1), 83.
<https://doi.org/10.1504/IJSSCI.2008.017590>
- Sahana, M., Hong, H., & Sajjad, H. (2018). Analyzing urban spatial patterns and trend of urban growth using urban sprawl matrix: A study on Kolkata urban agglomeration, India. *Science of The Total Environment*, 628–629, 1557–1566. <https://doi.org/10.1016/j.scitotenv.2018.02.170>
- Sapena, M., & Ruiz, L. A. (2021). Identifying urban growth patterns through land-use/land-cover spatio-temporal metrics: Simulation and analysis. *International Journal of Geographical Information Science*, 35(2), 375–396.
<https://doi.org/10.1080/13658816.2020.1817463>
- Sari, I. L., Weston, C. J., Newnham, G. J., & Volkova, L. (2021). Estimating land cover map accuracy and area uncertainty using a confusion matrix: A case study in Kalimantan, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 914(1). <https://doi.org/10.1088/1755-1315/914/1/012025>
- Sari, N., Yasin, H., & Prahutama, A. (2016). Geographically Weighted Regression Principal Component Analysis (Gwrpca) Pada Pemodelan Pendapatan Asli Daerah Di Jawa Tengah. *Jurnal Gaussian*, 5(4), 717–726.
<http://ejournal-s1.undip.ac.id/index.php/gaussian>
- Scheffer, M., Carpenter, S., Foley, J. A., Folke, C., & Walker, B. (2001). Catastrophic shifts in ecosystems. *Nature*, 413(6856), 591–596.

- <https://doi.org/10.1038/35098000>
- Schneider, A., Friedl, M. A., & Potere, D. (2009). A new map of global urban extent from MODIS satellite data. *Environmental Research Letters*, 4(4). <https://doi.org/10.1088/1748-9326/4/4/044003>
- Schneider, A., Mertes, C. M., Tatem, A. J., Tan, B., Sulla-Menashe, D., Graves, S. J., Patel, N. N., Horton, J. A., Gaughan, A. E., Rollo, J. T., Schelly, I. H., Stevens, F. R., & Dastur, A. (2015). A new urban landscape in East-Southeast Asia, 2000-2010. *Environmental Research Letters*, 10(3), 2000–2010. <https://doi.org/10.1088/1748-9326/10/3/034002>
- Schneider, Annemarie, & Woodcock, C. E. (2008). Compact, Dispersed, Fragmented, Extensive? A Comparison of Urban Growth in Twenty-five Global Cities using Remotely Sensed Data, Pattern Metrics and Census Information. *Urban Studies*, 45(3), 659–692. <https://doi.org/10.1177/0042098007087340>
- Segnestam, L. (2002). *Indicators of Environment and Sustainable Development Theories and Practical Experience* (Issue 89).
- Selang, M. A., Iskandar, D. A., & Widodo, R. (2018). Tingkat Perkembangan Urbanisasi Spasial Di Pinggiran Kpy (Kawasan Perkotaan Yogyakarta) Tahun 2012-2016. *Kota Layak Huni "Urbanisasi Dan Pengembangan Perkotaan*, 32–40.
- Sertel, E., & Akay, S. S. (2015). High resolution mapping of urban areas using SPOT-5 images and ancillary data. *International Journal of Environment and Geoinformatics*, 2(2), 63–76.
- Setianingsih, D. (2018). *Analisis perubahan nilai tanah dampak rencana pembangunan kampus ii uin dwi setianingsih*.
- Seto, K. C., Guneralp, B., & Hutyr, L. R. (2012). Global forecasts of urban expansion to 2030 and direct impacts on biodiversity and carbon pools. *Proceedings of the National Academy of Sciences*, 109(40), 16083–16088. <https://doi.org/10.1073/pnas.1211658109>
- Seto, Karen C, Roberto, S., & Fragkias, M. (2010). The New Geography of Contemporary Urbanization and the Environment. *Annu. Rev. Environ. Resour.*, 35. <https://doi.org/10.1146/annurev-environ-100809-125336>
- Shabani, F., Kumar, L., & Ahmadi, M. (2018). Assessing accuracy methods of species distribution models: AUC, Specificity, Sensitivity and the True Skill Statistic. *Global Journal of Human Social Science*, 18(1), 6–18. <https://socialscienceresearch.org/index.php/GJHSS/article/download/2469/2358>
- Shahfahad, Mourya, M., Kumari, B., Tayyab, M., Paarcha, A., Asif, & Rahman, A. (2021). Indices based assessment of built-up density and urban expansion of fast growing Surat city using multi-temporal Landsat data sets. *GeoJournal*, 86(4), 1607–1623. <https://doi.org/10.1007/s10708-020-10148-w>
- Shahtahmassebi, A. R., Song, J., Zheng, Q., Blackburn, G. A., Wang, K., Huang, L. Y., Pan, Y., Moore, N., Shahtahmassebi, G., Sadrabadi Haghighi, R., & Deng, J. S. (2016). Remote sensing of impervious surface growth: A framework for quantifying urban expansion and re-densification mechanisms. *International Journal of Applied Earth Observation and*

- Geoinformation*, 46, 94–112. <https://doi.org/10.1016/j.jag.2015.11.007>
- Shao, C., Tian, X., Guan, Y., Ju, M., & Xie, Q. (2013). Development and application of a new grey dynamic hierarchy analysis system (GDHAS) for evaluating urban ecological security. *International Journal of Environmental Research and Public Health*, 10(5), 2084–2108. <https://doi.org/10.3390/ijerph10052084>
- Shao, Y., Yuan, X., Ma, C., Ma, R., & Ren, Z. (2020). Quantifying the spatial association between land use change and ecosystem services value: A case study in Xi'an, China. *Sustainability (Switzerland)*, 12(11). <https://doi.org/10.3390/su12114449>
- Shaofeng, C., & Qingwen, Q. (2008). A Research on the Assessment of Regional Ecological Security. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. Vol. XXXVII. Part B6b. Beijing 2008*.
- Sharma, R., Nehren, U., Rahman, S. A., Meyer, M., Rimal, B., Seta, G. A., & Baral, H. (2018). Modeling land use and land cover changes and their effects on biodiversity in Central Kalimantan, Indonesia. *Land*, 7(2), 1–14. <https://doi.org/10.3390/land7020057>
- Sharp, R., Tallis, H. T., Ricketts, T., Guerry, A. D., Wood, S. A., Chaplin-Kramer, R., Nelson, E., Ennaanay, D., Wolny, S., Olwero, N., & others. (2014). InVEST user's guide. In *The Natural Capital Project, Stanford*.
- Shen, H., Meng, X., & Zhang, L. (2016). An Integrated Framework for the Spatio – Temporal – Spectral Fusion of Remote Sensing Images. *IEEE Transactions on Geoscience and Remote Sensing*, 54(12), 7135–7148.
- Shi, D., & Yang, X. (2015). *Support Vector Machines for Land Cover Mapping from Remote Sensor Imagery. January 2015*, 265–279. https://doi.org/10.1007/978-94-017-9813-6_13
- Shi, P., Yuan, Y., He, C., Li, X., & Chen, Y. (2004). Land use pattern adjustment under ecological security: Look for secure land use pattern in China. *Geographical Review of Japan*, 77(12), 282–298.
- Shi, X., Zhao, J., & Zhiyun, O. (2006). Assessment of eco-security in the Knowledge Grid e-science environment. *Journal of Systems and Software*, 79(2), 246–252. <https://doi.org/10.1016/j.jss.2005.04.031>
- Shi, Y., Li, J., & Xie, M. (2018). Evaluation of the ecological sensitivity and security of tidal flats in Shanghai. *Ecological Indicators*, 85(November 2017), 729–741. <https://doi.org/10.1016/j.ecolind.2017.11.033>
- Shirazi, S. A., & Kazmi, J. H. (2016). Analysis of socio-environmental impacts of the loss of urban trees and vegetation in Lahore, Pakistan: a review of public perception. In *Ecological Processes* (Vol. 5, Issue 1). <https://doi.org/10.1186/s13717-016-0050-8>
- Shlomo Angel, Sheppard, S. C., Civco, D. L., Buckley, R., Chabaeva, A., Gitlin, L., Kralej, A., Parent, J., & Perlin, M. (2005). Dynamics of Urban Expansion. *Nature*, 467(7315), 555–561. <https://doi.org/10.1038/nature09440>
- Shrestha, N. (2021). Factor Analysis as a Tool for Survey Analysis. *American Journal of Applied Mathematics and Statistics*, 9(1), 4–11.

- <https://doi.org/10.12691/ajams-9-1-2>
- Shuang, L. (2019). Evaluation on Urban Land Ecological Security Based on the PSR Model and Matter-Element Analysis: A Case Study of Zhuhai, Guangdong, China. *Journal of Landscape Research*, 11(3), 82–88.
- Siddique, M. A., Wang, Y., Xu, N., Ullah, N., & Zeng, P. (2021). The spatiotemporal implications of urbanization for urban heat islands in Beijing: A predictive approach based on CA-Markov modeling (2004–2050). *Remote Sensing*, 13(22). <https://doi.org/10.3390/rs13224697>
- Singh, M., Choudhary, K., Paringer, R., & Kupriyanov, A. (2022). Ecological Informatics Using RS / GIS for spatiotemporal ecological vulnerability analysis based on DPSIR framework in the Republic of Tatarstan, Russia. *Ecological Informatics*, 67(November 2021), 101490. <https://doi.org/10.1016/j.ecoinf.2021.101490>
- Singh, P., Kikon, N., & Verma, P. (2017). Impact of land use change and urbanization on urban heat island in Lucknow city, Central India. A remote sensing based estimate. *Sustainable Cities and Society*, 32, 100–114. <https://doi.org/10.1016/j.scs.2017.02.018>
- Sinha, S., Santra, A., & Mitra, S. S. (2018). A method for built-up area extraction using dual polarimetric ALOS PALSAR. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, 4(5), 455–458. <https://doi.org/10.5194/isprs-annals-IV-5-455-2018>
- Siyu, L., Zhong, M., & Lei, S. (2015). Study on New Urbanization and Urban Ecological Security Assessment. *Meteorological and Environmental Research*, 6(7), 31–34, 40.
- Skidmore, A. (2002). *Environmental Modelling with GIS and Remote Sensing* (by A. Skidmore (Ed.)). Taylor & Francis. <https://doi.org/10.4324/9780203302217>
- Smith, D. (2013). Urban ecology. *Urban Ecology*, July 2013, 1–78. <https://doi.org/10.4324/9780203717134>
- Smith, M. J. de. (2004). Distance transforms as a new tool in spatial analysis, urban planning, and GIS. *Environment and Planning B: Planning and Design*, 31(1), 85–104. <https://doi.org/10.1068/b29123>
- Smith, E. (1989). Shortest-Path Distances: An Axiomatic Approach. *Geographical Analysis*, 21(1).
- Smith, N. (2014). Building resilient cities in China: The nexus between planning and science. In *Town Planning Review* (Vol. 85, Issue 1). <https://doi.org/10.3828/tpr.2014.8>
- Sobrino, J. A., Jiménez-Muñoz, J. C., & Paolini, L. (2004). Land surface temperature retrieval from LANDSAT TM 5. *Remote Sensing of Environment*, 90(4), 434–440. <https://doi.org/10.1016/j.rse.2004.02.003>
- Spanhove, T., Vanden Borre, J., Delalieux, S., Haest, B., & Paelinckx, D. (2012). Can remote sensing estimate fine-scale quality indicators of natural habitats? *Ecological Indicators*, 18, 403–412. <https://doi.org/10.1016/j.ecolind.2012.01.025>
- Sruthi Krishnan, V., & Mohammed Firoz, C. (2020). Regional urban environmental quality assessment and spatial analysis. *Journal of Urban Management*, 9(2), 191–204. <https://doi.org/10.1016/j.jum.2020.03.001>

- Stearns, F. (1970). Urban Ecology Today. *Science*, 170(3961), 1006–1007.
<https://doi.org/10.1126/science.158.3804.1086>
- Stefanov W.L., Ramse M.S., & Christensen P.R. (2001). Monitoring urban land cover change - An expert system approach to land cover classification of semiarid to arid urban centers. *Remote Sensing of Environment*, 77, 173–185.
[https://doi.org/10.1016/S0034-4257\(01\)00204-8](https://doi.org/10.1016/S0034-4257(01)00204-8)
- Stehman, S. V., & Foody, G. M. (2019). Key issues in rigorous accuracy assessment of land cover products. *Remote Sensing of Environment*, 231(May), 111199. <https://doi.org/10.1016/j.rse.2019.05.018>
- Storey, J., Choate, M., & Lee, K. (2008). Geometric Performance Comparison Between the Oli and the Etm. *Proceedings of the PECORA*, 17(08), 18–20.
- Su, L., & Huang, Y. (2009). Support vector machine (svm) classification: Comparison of linkage techniques using a clustering-based method for training data selection. *GIScience and Remote Sensing*, 46(4), 411–423.
<https://doi.org/10.2747/1548-1603.46.4.411>
- Su, S., Li, D., Yu, X., Zhang, Z., Zhang, Q., Xiao, R., Zhi, J., & Wu, J. (2011). Assessing land ecological security in Shanghai (China) based on catastrophe theory. *Stochastic Environmental Research and Risk Assessment*, 25(6), 737–746. <https://doi.org/10.1007/s00477-011-0457-9>
- Su, Xiaoxia, Wu, J., Li, P., Li, R., & Cheng, P. (2022). *RSEI-Based Modeling of Ecological Security and Its Spatial Impacts on Soil Quality: A Case Study of Dayu, China*. <https://doi.org/10.3390/su14084428>
- Su, Xueping, Zhou, Y., & Li, Q. (2021). Designing ecological security patterns based on the framework of ecological quality and ecological sensitivity: A case study of jiangnan plain, china. *International Journal of Environmental Research and Public Health*, 18(16). <https://doi.org/10.3390/ijerph18168383>
- Su, Y., Chen, X., Liao, J., Zhang, H., Wang, C., Ye, Y., & Wang, Y. (2016a). Modeling the optimal ecological security pattern for guiding the urban constructed land expansions. *Urban Forestry and Urban Greening*, 19, 35–46. <https://doi.org/10.1016/j.ufug.2016.06.013>
- Su, Y., Chen, X., Liao, J., Zhang, H., Wang, C., Ye, Y., & Wang, Y. (2016b). Modeling the optimal ecological security pattern for guiding the urban constructed land expansions. *Urban Forestry & Urban Greening*, 19, 35–46. <https://doi.org/10.1016/J.UFUG.2016.06.013>
- Subkhi, W. B., & Mardiansjah, F. H. (2019). Pertumbuhan dan Perkembangan Kawasan Perkotaan di Kabupaten: Studi Kasus Kabupaten Sleman, Daerah Istimewa Yogyakarta. *Jurnal Wilayah Dan Lingkungan*, 7(2), 105–120.
<https://doi.org/10.14710/jwl.7.2.105-120>
- Sukmawati, A. M., & Utomo, P. (2020). Dinamika Spasial Perkembangan Kawasan Perkotaan Di Kabupaten Bantul ., *Prosiding Seminar Nasional Kahuripan I Tahun 2020, November*.
https://www.researchgate.net/publication/346030811_Dinamika_Spasial_Per_kembangan_Kawasan_Perkotaan_Di_Kabupaten_Bantul_Provinsi_DI_Yogyakarta
- Sumartini, & Muta'ali, L. (2015). Analisis Perkembangan Ekonomi Wilayah Di Kabupaten Bantul. *Jurnal Bumi Indonesia*, 4(3), 287–301.

- <https://core.ac.uk/download/pdf/295176307.pdf>
- Sun, B., Tang, J., Yu, D., Song, Z., & Wang, P. (2019). Ecosystem health assessment: A PSR analysis combining AHP and FCE methods for Jiaozhou Bay, China1. *Ocean and Coastal Management*, 168(October 2018), 41–50. <https://doi.org/10.1016/j.ocecoaman.2018.10.026>
- Sun, H., Li, W., Zhang, J., & Gao, J. (2020). Modeling Urban Ecological Security in Yangtze River Delta based on Machine Learning. *IOP Conference Series: Earth and Environmental Science*, 502(1). <https://doi.org/10.1088/1755-1315/502/1/012021>
- Sun, M., Li, X., Yang, R., Zhang, Y., Zhang, L., Song, Z., Liu, Q., & Zhao, D. (2020). Comprehensive partitions and different strategies based on ecological security and economic development in Guizhou Province, China. *Journal of Cleaner Production*, 274, 122794. <https://doi.org/10.1016/j.jclepro.2020.122794>
- Sun, Q., Wu, Z., & Tan, J. (2012). The relationship between land surface temperature and land use/land cover in Guangzhou, China. *Environmental Earth Sciences*, 65(6), 1687–1694. <https://doi.org/10.1007/s12665-011-1145-2>
- Sun, Z., Wang, C., Guo, H., & Shang, R. (2017). A modified normalized difference impervious surface index (MNDISI) for automatic urban mapping from landsat imagery. *Remote Sensing*, 9(9). <https://doi.org/10.3390/rs9090942>
- Sunaryo, S., Ambariyanto, A., Sugianto, D. N., Helmi, M., Kaimuddin, A. H., & Indarjo, A. (2018). Risk Analysis of Coastal Disaster of Semarang City, Indonesia. *E3S Web of Conferences*, 31, 1–5. <https://doi.org/10.1051/e3sconf/20183112009>
- Sunny, D. S., Islam, K. M. A., Mullick, M. R. A., & Ellis, J. T. (2022). Performance study of imageries from MODIS, Landsat 8 and Sentinel-2 on measuring shoreline change at regional scale. *Remote Sensing Applications: Society and Environment*, 28(July), 100816. <https://doi.org/10.1016/j.rsase.2022.100816>
- Suryadi, Y., & Sugianto, D. N. (2018). Climate Change In Indonesia (Case Study : Medan , Palembang , Semarang). *Web of Conferences* 31, 09017, 3–8. <https://doi.org/https://doi.org/10.1051/e3sconf/20183109017>
- Suwarso, E., Paulus, D. R., & Miftachurahma, W. (2019). Kajian Database Keanekaragaman Hayati Kota Semarang. *Jurnal Riptek*, 13(1), 79–91.
- Syms, C. (2008). *Principal Components Analysis* (S. E. Jørgensen & B. D. B. T.-E. of E. Fath (Eds.); pp. 2940–2949). Academic Press. <https://doi.org/https://doi.org/10.1016/B978-008045405-4.00538-3>
- Szuster, B. W., Chen, Q., & Borger, M. (2011). A comparison of classification techniques to support land cover and land use analysis in tropical coastal zones. *Applied Geography*, 31(2), 525–532. <https://doi.org/10.1016/j.apgeog.2010.11.007>
- Tabachnick , Fidell, Linda S., Ullman, Jodie B., B. G. (2019). *Using multivariate statistics*.
- Tan, P. Y., & Rinaldi, B. M. (2019). Landscapes for compact cities. *Journal of*

- Landscape Architecture*, 14(1), 4–7.
<https://doi.org/10.1080/18626033.2019.1623540>
- Tao, X. (2010a). Urban ecological security assessment in Shenzhen city based on set pair analysis and entropy method: A case study on Shenzhen city. *Proceedings - 2010 2nd International Workshop on Intelligent Systems and Applications, ISA 2010*. <https://doi.org/10.1109/IWISA.2010.5473567>
- Tao, X. (2010b). Urban Ecological Security Assessment in Shenzhen City Based on Set Pair Analysis and Entropy Method. *IEEE*, 5–8.
- Tao, X. (2011). Warning Assessment of Urban Ecological Security Based on Fuzzy Matter-Element Theory. *IEEE*, 1182–1187.
- Tarek Rashed, C. J. (2010). *Remote Sensing of Urban and Suburban Areas* (F. D. van der Meer (Ed.)). Springer.
- Thanapura, P., Helder, D. L., Burckhard, S., Warmath, E., Neill, M. O., & Galster, D. (2007). Mapping Urban Land Cover Using QuickBird NDVI and GIS Spatial Modeling for Runoff Coefficient Determination. *Photogrammetric Engineering & Remote Sensing*, 73(1), 57–65.
<https://doi.org/10.14358/PERS.73.1.57>
- Tian, J., & Gang, G. (2012a). Research on regional ecological security assessment. *Energy Procedia*, 16(PART B), 1180–1186.
<https://doi.org/10.1016/j.egypro.2012.01.188>
- Tian, J., & Gang, G. (2012b). Research on Regional Ecological Security Assessment. *Energy Procedia*, 16, 1180–1186.
<https://doi.org/10.1016/j.egypro.2012.01.188>
- Tian, J., & Gang, G. (2012c). Research on Regional Ecological Security Assessment. *Energy Procedia*, 16, 1180–1186.
<https://doi.org/10.1016/j.egypro.2012.01.188>
- Timoshenko, A. S. (1989). Ecological Security: The International Aspect. *Pace Environmental Law Review*, 7(1), 151.
<http://heinonline.org/HOL/Page?handle=hein.journals/penv7&id=157&div=&collection=%0Ahttp://heinonline.org/HOL/LandingPage?handle=hein.journals/penv7&div=14&id=&page=>
- Timoshenko, Alexandre S. (1992). (introductory text ...) I. *Conceptual paradigm*. July 1989, 1–30.
- Tjiptoherijanto, P. (1999). Urbanisasi dan Pengembangan Kota di Indonesia. *Populasi*, 10(2), 57–72.
- Torres, A., Jaeger, J. A. G., & Alonso, J. C. (2016). Multi-scale mismatches between urban sprawl and landscape fragmentation create windows of opportunity for conservation development. *Landscape Ecology*, 31(10), 2291–2305. <https://doi.org/10.1007/s10980-016-0400-z>
- Townsend, P. A., Helmers, D. P., Kingdon, C. C., McNeil, B. E., de Beurs, K. M., & Eshleman, K. N. (2009). Changes in the extent of surface mining and reclamation in the Central Appalachians detected using a 1976–2006 Landsat time series. *Remote Sensing of Environment*, 113(1), 62–72.
<https://doi.org/https://doi.org/10.1016/j.rse.2008.08.012>
- Tsou, J., Gao, Y., Zhang, Y., Genyun, S., Ren, J., & Li, Y. (2017). Evaluating Urban Land Carrying Capacity Based on the Ecological Sensitivity Analysis:

- A Case Study in Hangzhou, China. *Remote Sensing*, 9(6), 529.
<https://doi.org/10.3390/rs9060529>
- Turner, B. L., Lambin, E. F., & Reenberg, A. (2009). The emergence of land change science for global environmental change and sustainability. *Proceeding of the National Academy of Sciences of the United States of America*, 103(128), 13070–13075.
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3001449&tool=pmcentrez&rendertype=abstract>
- Tzoulas, K., Korpela, K., Venn, S., Yli-Pelkonen, V., Kaźmierczak, A., Niemela, J., & James, P. (2007). Promoting ecosystem and human health in urban areas using Green Infrastructure: A literature review. *Landscape and Urban Planning*, 81(3), 167–178. <https://doi.org/10.1016/j.landurbplan.2007.02.001>
- UN-Habitat. (2020). What is a city? In *UN Habitat* (Vol. 82, Issue 1, pp. 66–69).
<https://doi.org/10.1002/ad.1351>
- UN-Habitat. (2006). State of the World's Cities Report 2006/7. In *Earthscan*.
- UN. (2018). World Urbanization Prospects. In *Demographic Research* (Vol. 12).
<https://population.un.org/wup/Publications/Files/WUP2018-Report.pdf>
- UNFPA. (2013). *Climate vulnerability and adaptation in the Semarang Metropolitan Area: a spatial and demographic analysis* (Issue October).
- United Nations. (2013). *World Population Prospects The 2012 Revision*.
- Utami, R. N., Siti Nurul Rofiqo Irwan, Ahmad Sawardi, & Alia Bihrajihant Raya. (2021). Daya Tarik Keanekaragaman Burung di Jalur Hijau Jalan Kota Yogyakarta. *Jurnal Ilmu Pertanian Indonesia*, 26(2), 267–275.
<https://doi.org/10.18343/jipi.26.2.267>
- Vaidya, O. S., & Kumar, S. (2006). Analytic hierarchy process: An overview of applications. *European Journal of Operational Research*, 169(1), 1–29.
<https://doi.org/10.1016/j.ejor.2004.04.028>
- Vakhshoori, V., & Zare, M. (2018). Is the ROC curve a reliable tool to compare the validity of landslide susceptibility maps? *Geomatics, Natural Hazards and Risk*, 9(1), 249–266. <https://doi.org/10.1080/19475705.2018.1424043>
- van Genderen, J. L. (2011). Advances in Environmental Remote Sensing: Sensors, Algorithms, and Applications. In *International Journal of Digital Earth* (Vol. 4, Issue 5). CRC Press.
<https://doi.org/10.1080/17538947.2011.598701>
- van Vliet, J., Verburg, P. H., Grădinaru, S. R., & Hersperger, A. M. (2019). Beyond the urban-rural dichotomy: Towards a more nuanced analysis of changes in built-up land. *Computers, Environment and Urban Systems*, 74(November 2018), 41–49.
<https://doi.org/10.1016/j.compenvurbsys.2018.12.002>
- Vani, V., & Mandla, V. R. (2017). Comparative study of NDVI and SAVI vegetation indices in Anantapur district semi-arid areas. *International Journal of Civil Engineering and Technology*, 8(4), 559–566.
- Verma, P., & Raghubanshi, A. S. (2018). Urban sustainability indicators: Challenges and opportunities. *Ecological Indicators*, 93(May), 282–291.
<https://doi.org/10.1016/j.ecolind.2018.05.007>
- Vondrakova, A., & Kolarik, J. (2013). Dasymeric Mapping As an Analytical

- Tool for the City Development Identification and Its Cartographic Visualization. *Geoinformatics for City Transformation*, January, 21–23.
- Vu, T. T., Shen, Y., & Lai, H.-Y. (2022). Strategies to Mitigate the Deteriorating Habitat Quality in Dong Trieu District, Vietnam. *Land*, 11(2), 305.
<https://doi.org/10.3390/land11020305>
- Wahyuningsih, H. (2017). Status Lingkungan Hidup Berkelanjutan di Perkotaan (Studi Kasus: Kota Surakarta). *Proceeding Health Architecture*, 1(1), 102–106.
- Walawender, J. P., Szymanowski, M., Hajto, M. J., & Bokwa, A. (2014). Land Surface Temperature Patterns in the Urban Agglomeration of Krakow (Poland) Derived from Landsat-7/ETM+ Data. *Pure and Applied Geophysics*, 171(6), 913–940. <https://doi.org/10.1007/s00024-013-0685-7>
- Wang, D., Chen, J., Zhang, L., & Sun, Z. (2019). Establishing an ecological security pattern for urban agglomeration , taking ecosystem services and human interference factors into consideration. *PeerJ*, 1–28.
<https://doi.org/10.7717/peerj.7306>
- Wang, F., & Gu, N. (2020). Impact of ecological security on urban sustainability in Western China—A case study of Xi'an. *Environment and Planning B: Urban Analytics and City Science*, 0(28), 1–26.
<https://doi.org/10.1177/2399808320931869>
- Wang, F., & Gu, N. (2021). Impact of ecological security on urban sustainability in Western China—A case study of Xi'an. *Environment and Planning B: Urban Analytics and City Science*, 48(5), 1314–1339.
<https://doi.org/10.1177/2399808320931869>
- Wang, G., & Wu, W. (2007). Spatial distribution of ecological security status assessment of West-Liaohe River based on geographic information system. *Frontiers of Environmental Science and Engineering in China*, 1(4), 471–476. <https://doi.org/10.1007/s11783-007-0075-4>
- Wang, H.-F., & López-Pujol, J. (2015). Urban green spaces and plant diversity at different spatial-temporal scales: A case study from Beijing, China. *Collectanea Botanica*, 34(December).
<https://doi.org/10.3989/collectbot.2015.v34.008>
- Wang, Haiming, Wang, H., Sun, H., Wang, X., Liao, X., Chen, Z., & Li, X. (2012). Assessment of the ecological security in the three gorges reservoir area by using the ecological footprint method. *Journal of Mountain Science*, 9(6), 891–900. <https://doi.org/10.1007/s11629-012-2445-z>
- Wang, Haiting, Zhang, Y., Tsou, J. Y., & Li, Y. (2017). Surface urban heat island analysis of shanghai (China) based on the change of land use and land cover. *Sustainability (Switzerland)*, 9(9). <https://doi.org/10.3390/su9091538>
- Wang, Haiying, Qin, F., & Zhang, X. (2019). A spatial exploring model for urban land ecological security based on a modified artificial bee colony algorithm. *Ecological Informatics*, 50(August 2018), 51–61.
<https://doi.org/10.1016/j.ecoinf.2018.12.009>
- Wang, J., Haining, R., & Cao, Z. (2010). Sample surveying to estimate the mean of a heterogeneous surface: Reducing the error variance through zoning. *International Journal of Geographical Information Science*, 24(4), 523–543.

- <https://doi.org/10.1080/13658810902873512>
- Wang, K., Zhou, W., Xu, K., Liang, H., Yu, W., & Li, W. (2017). Quantifying changes of villages in the urbanizing Beijing metropolitan region: Integrating remote sensing and GIS Analysis. *Remote Sensing*, 9(5).
<https://doi.org/10.3390/rs9050448>
- Wang, L. (2008). Invasive Species Spread Mapping Using Multi-Resolution Remote Sensing Data. *Archives*, 135–142. http://isprserv.ifp.uni-stuttgart.de/proceedings/XXXVII/congress/2_pdf/1_WG-II-1/23.pdf
- Wang, L., & Wu, C. (2010). Preface: Population estimation using remote sensing and GIS technologies. *International Journal of Remote Sensing*, 31(21), 5569–5570. <https://doi.org/10.1080/01431161.2010.496809>
- Wang, M., Li, Y., Huai, Y., & Wang, X. (2019). Study on the Land Ecological Security and early warning in Shenzhen. *IOP Conference Series: Earth and Environmental Science*, 300(3). <https://doi.org/10.1088/1755-1315/300/3/032068>
- Wang, R., Li, F., Hu, D., & Li, B. L. (2011). Understanding eco-complexity : Social-Economic-Natural Complex Ecosystem approach. *Ecological Complexity*, 8(1), 15–29. <https://doi.org/10.1016/j.ecocom.2010.11.001>
- Wang, S. X., Shang, M., Zhou, Y., Liu, W. L., Wang, F., & Wang, L. T. (2017). Resources and environmental carrying capacity using RS and GIS. *Polish Journal of Environmental Studies*, 26(6), 2793–2800.
<https://doi.org/10.15244/pjoes/70927>
- Wang, S., Zhang, X., Wu, T., & Yang, Y. (2019a). The evolution of landscape ecological security in Beijing under the influence of different policies in recent decades. *Science of the Total Environment*, 646, 49–57.
<https://doi.org/10.1016/j.scitotenv.2018.07.146>
- Wang, S., Zhang, X., Wu, T., & Yang, Y. (2019b). The evolution of landscape ecological security in Beijing under the influence of different policies in recent decades. *Science of the Total Environment*, 646, 49–57.
<https://doi.org/10.1016/j.scitotenv.2018.07.146>
- Wang, X., & Bian, Z. (2011). The implications of ecological sensitivity on exploitation of unutilized land: A case study in Ji'Nan city, China. *Procedia Environmental Sciences*, 10(PART A), 275–281.
<https://doi.org/10.1016/j.proenv.2011.09.045>
- Wang, Y., Ding, Q., & Zhuang, D. (2015). An eco-city evaluation method based on spatial analysis technology: A case study of Jiangsu Province, China. *Ecological Indicators*, 58, 37–46.
<https://doi.org/10.1016/j.ecolind.2015.05.032>
- Wang, Zhen, Zhou, J., Loaiciga, H., Guo, H., & Hong, S. (2015a). A DPSIR model for ecological security assessment through indicator screening: A case study at Dianchi Lake in China. *PLoS ONE*, 10(6), 1–13.
<https://doi.org/10.1371/journal.pone.0131732>
- Wang, Zhen, Zhou, J., Loaiciga, H., Guo, H., & Hong, S. (2015b). A DPSIR model for ecological security assessment through indicator screening: A case study at Dianchi Lake in China. *PLoS ONE*, 10(6), 1–14.
<https://doi.org/10.1371/journal.pone.0131732>

- Wang, Zhiqiang, Deng, Y., & Fan, Y. (2018). Validation plays the role of a “bridge” in connecting remote sensing research and applications. *Advances in Space Research*, 62(1), 55–64. <https://doi.org/10.1016/j.asr.2018.04.018>
- Wei, Chao, Wang, Z., Lan, X., Zhang, H., & Fan, M. (2018). The spatial-temporal characteristics and dilemmas of sustainable urbanization in China: A new perspective based on the concept of five-in-one. *Sustainability (Switzerland)*, 10(12). <https://doi.org/10.3390/su10124733>
- Wei, Chunzhu, Blaschke, T., Kazakopoulos, P., Taubenböck, H., & Tiede, D. (2017). Is spatial resolution critical in urbanization velocity analysis? Investigations in the pearl river delta. *Remote Sensing*, 9(1). <https://doi.org/10.3390/rs9010080>
- Wen, J., & Hou, K. (2021). Research on the progress of regional ecological security evaluation and optimization of its common limitations. *Ecological Indicators*, 127, 107797. <https://doi.org/10.1016/j.ecolind.2021.107797>
- Wen, M., Zhang, T., Li, L., Chen, L., Hu, S., Wang, J., Liu, W., Zhang, Y., & Yuan, L. (2021). Assessment of land ecological security and analysis of influencing factors in chaohu lake basin, China from 1998-2018. *Sustainability (Switzerland)*, 13(1), 1–28. <https://doi.org/10.3390/su13010358>
- Weng, Q. (2012). Remote sensing of impervious surfaces in the urban areas: Requirements, methods, and trends. *Remote Sensing of Environment*, 117, 34–49. <https://doi.org/10.1016/j.rse.2011.02.030>
- Weng, Q., Lu, D., & Schubring, J. (2004). Estimation of land surface temperature-vegetation abundance relationship for urban heat island studies. *Remote Sensing of Environment*, 89(4), 467–483. <https://doi.org/10.1016/j.rse.2003.11.005>
- Wentz, E. A., Anderson, S., Fragkias, M., Netzband, M., Mesev, V., Myint, S. W., Quattrochi, D., Rahman, A., & Seto, K. C. (2014). Supporting global environmental change research: A review of trends and knowledge gaps in urban remote sensing. *Remote Sensing*, 6(5), 3879–3905. <https://doi.org/10.3390/rs6053879>
- Wiens, J. J., Sukumaran, J., Pyron, R. A., & Brown, R. M. (2009). Evolutionary and biogeographic origins of high tropical diversity in old world frogs (ranidae). *Evolution*, 63(5), 1217–1231. <https://doi.org/10.1111/j.1558-5646.2009.00610.x>
- Wilson, M. C., Chen, X. Y., Corlett, R. T., Didham, R. K., Ding, P., Holt, R. D., Holyoak, M., Hu, G., Hughes, A. C., Jiang, L., Laurance, W. F., Liu, J., Pimm, S. L., Robinson, S. K., Russo, S. E., Si, X., Wilcove, D. S., Wu, J., & Yu, M. (2016). Habitat fragmentation and biodiversity conservation: key findings and future challenges. *Landscape Ecology*, 31(2), 219–227. <https://doi.org/10.1007/s10980-015-0312-3>
- Wu, Jianguo. (2014a). Urban ecology and sustainability: The state-of-the-science and future directions. *Landscape and Urban Planning*, 125, 209–221. <https://doi.org/10.1016/j.landurbplan.2014.01.018>
- Wu, Jianguo. (2014b). Urban ecology and sustainability: The state-of-the-science and future directions. *Landscape and Urban Planning*, 125, 209–221.

- <https://doi.org/10.1016/J.LANDURBPLAN.2014.01.018>
- Wu, Jianguo. (2014c). Urban ecology and sustainability: The state-of-the-science and future directions. *Landscape and Urban Planning*, 125, 209–221.
<https://doi.org/10.1016/J.LANDURBPLAN.2014.01.018>
- Wu, Jianguo, He, C., Huang, G., & Yu, D. (2013). Urban Landscape Ecology: Past, Present, and Future. In B. Fu & K. B. Jones (Eds.), *Landscape Ecology for Sustainable Environment and Culture* (Issue September, pp. 1–368).
<https://doi.org/10.1007/978-94-007-6530-6>
- Wu, Jianguo, Jenerette, G. D., Buyantuyev, A., & Redman, C. L. (2011). Quantifying spatiotemporal patterns of urbanization: The case of the two fastest growing metropolitan regions in the United States. *Ecological Complexity*, 8(1), 1–8. <https://doi.org/10.1016/j.ecocom.2010.03.002>
- Wu, Jiansheng, Li, X., Luo, Y., & Zhang, D. (2021). Spatiotemporal effects of urban sprawl on habitat quality in the Pearl River Delta from 1990 to 2018. In *Scientific Reports* (Vol. 11, Issue 1). <https://doi.org/10.1038/s41598-021-92916-3>
- Wu, L. I., Li, Z., & Liu, D. (2017). Analysis on the Dynamic Variation of Ecological Security of Farmland in Yuxi , Based on the Combinational weighting Method. *International Journal of Environmental Science*, 2, 283–294.
- Wu, X., Liu, S., Sun, Y., An, Y., Dong, S., & Liu, G. (2019a). Ecological security evaluation based on entropy matter-element model: A case study of Kunming city, southwest China. *Ecological Indicators*, 102(August 2018), 469–478.
<https://doi.org/10.1016/j.ecolind.2019.02.057>
- Wu, X., Liu, S., Sun, Y., An, Y., Dong, S., & Liu, G. (2019b). Ecological security evaluation based on entropy matter-element model: A case study of Kunming city, southwest China. *Ecological Indicators*, 102(February), 469–478.
<https://doi.org/10.1016/j.ecolind.2019.02.057>
- WU, Y., DENG, N., & FENG, R. (2017). Urban Ecological Security Measure Model and its Application based on Symbiosis Theory. *DEStech Transactions on Social Science, Education and Human Science*, apme, 27–36. <https://doi.org/10.12783/dtssehs/apme2016/8051>
- Wu, Y., Zhang, T., Zhang, H., Pan, T., Ni, X., Grydehøj, A., & Zhang, J. (2020a). Factors influencing the ecological security of island cities: A neighborhood-scale study of Zhoushan Island, China. *Sustainable Cities and Society*, 55(August 2019), 102029. <https://doi.org/10.1016/j.scs.2020.102029>
- Wu, Y., Zhang, T., Zhang, H., Pan, T., Ni, X., Grydehøj, A., & Zhang, J. (2020b). Factors influencing the ecological security of island cities: A neighborhood-scale study of Zhoushan Island, China. *Sustainable Cities and Society*, 55(January), 102029. <https://doi.org/10.1016/j.scs.2020.102029>
- Wulder, M. A., Hall, R. J., Coops, N. C., & Franklin, S. E. (2004). High Spatial Resolution Remotely Sensed Data for Ecosystem Characterization. *BioScience*, 54(6), 511. [https://doi.org/10.1641/0006-3568\(2004\)054\[0511:hsrrsd\]2.0.co;2](https://doi.org/10.1641/0006-3568(2004)054[0511:hsrrsd]2.0.co;2)
- Wulder, M. A., Roy, D. P., Radeloff, V. C., Loveland, T. R., Anderson, M. C., Johnson, D. M., Healey, S., Zhu, Z., Scambos, T. A., Pahlevan, N., Hansen,

- M., Gorelick, N., Crawford, C. J., Masek, J. G., Hermosilla, T., White, J. C., Belward, A. S., Schaaf, C., Woodcock, C. E., ... Cook, B. D. (2022). Fifty years of Landsat science and impacts. *Remote Sensing of Environment*, 280(July), 113195. <https://doi.org/10.1016/j.rse.2022.113195>
- Wulder, M. a, Hall, R. J., Coops, N. C., Steven, E., & Franklin, S. E. (2004). High Spatial Resolution Remotely Sensed Data for Ecosystem Characterization. *BioScience*, 54(6), 511–521.
- Xi, F. (2009). *Simulate urban growth based on RS , GIS , and SLEUTH model in Shenyang-Fushun metropolitan area northeastern China*.
- Xia, L., Zhao, F., Chen, J., Yu, L., Lu, M., Yu, Q., Liang, S., Fan, L., Sun, X., Wu, S., Wu, W., & Yang, P. (2022). A full resolution deep learning network for paddy rice mapping using Landsat data. *ISPRS Journal of Photogrammetry and Remote Sensing*, 194(October), 91–107. <https://doi.org/10.1016/j.isprsjprs.2022.10.005>
- Xian, W., Shao, H., Zhou, W., Zhou, J., Huang, J., & Liuzhi. (2009). Eco-security evaluation in Panxi mining concentrated area. *2009 Joint Urban Remote Sensing Event*. <https://doi.org/10.1109/URS.2009.5137612>
- Xiao, D., & Chen, W. (2002). On the basic concepts and contents of ecological security. *PubMed*, 13(3), 354–358.
- Xie, H., He, Y., Choi, Y., Chen, Q., & Cheng, H. (2020). Warning of negative effects of land-use changes on ecological security based on GIS. *Science of the Total Environment*, 704, 135427. <https://doi.org/10.1016/j.scitotenv.2019.135427>
- Xie, H., Yao, G., & Wang, P. (2014). Identifying regional key eco-space to maintain ecological security using GIS. *International Journal of Environmental Research and Public Health*, 11(3), 2550–2568. <https://doi.org/10.3390/ijerph110302550>
- Xiuping, Z., Shaofeng, C., & Qingwen, Q. (2008). A Resarch on the Assessment of Regional Ecological Security Based On GIS & RS. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences.*, XXXVII(B6b), 83–86.
- Xu, H. (2008). A new index for delineating built-up land features in satellite imagery. *International Journal of Remote Sensing*, 29(14), 4269–4276. <https://doi.org/10.1080/01431160802039957>
- Xu, H. Q. (2013). A remote sensing urban ecological index and its application. *Shengtai Xuebao/ Acta Ecologica Sinica*, 33(24), 7853–7862. <https://doi.org/10.5846/stxb201208301223>
- Xu, Hanqiu. (2006a). Modification of normalised difference water index (NDWI) to enhance open water features in remotely sensed imagery. *International Journal of Remote Sensing*, 27(14), 3025–3033. <https://doi.org/10.1080/01431160600589179>
- Xu, Hanqiu. (2006b). Modification of normalised difference water index (NDWI) to enhance open water features in remotely sensed imagery. *International Journal of Remote Sensing*, 27(14), 3025–3033. <https://doi.org/10.1080/01431160600589179>
- Xu, Hanqiu. (2013). A remote sensing urban ecological index. *Acta Ecologica*

- Sinica*, 33(24).
- Xu, Hanqiu, Wang, M., Shi, T., Guan, H., Fang, C., & Lin, Z. (2018). Prediction of ecological effects of potential population and impervious surface increases using a remote sensing based ecological index (RSEI). *Ecological Indicators*, 93(January), 730–740.
<https://doi.org/10.1016/j.ecolind.2018.05.055>
- Xu, Hanqiu, Wang, Y., Guan, H., Shi, T., & Hu, X. (2019). Detecting ecological changes with a remote sensing based ecological index (RSEI) produced time series and change vector analysis. *Remote Sensing*, 11(20), 1–24.
<https://doi.org/10.3390/rs11202345>
- Xu, Lin-yu, & Yang, Z. (2013). Evaluation and Regulation of Ecological Security When Implementing Urban Planning : Review and Suggestions for Spatial Planning and Sustainable Development in China 17 . 2 Security Assessment Techniques and Analysis for Ecological. In *Spatial Planning and Sustainable Development* (pp. 305–321). Springer.
- Xu, Linyu, & Xie, X. (2012a). Theoretic Research on the Relevant Concepts of Urban Ecosystem Carrying Capacity. *A Environmental Sciences*, 8, 863–872.
<https://doi.org/10.1016/j.proenv.2012.01.080>
- Xu, Linyu, & Xie, X. (2012b). Theoretic Research on the Relevant Concepts of Urban Ecosystem Carrying Capacity. *Procedia Environmental Sciences*, 13(2011), 863–872. <https://doi.org/10.1016/j.proenv.2012.01.080>
- Xu, Linyu, & Xie, X. (2012c). Theoretic Research on the Relevant Concepts of Urban Ecosystem Carrying Capacity. *Procedia Environmental Sciences*, 13(2011), 863–872. <https://doi.org/10.1016/j.proenv.2012.01.080>
- Xu, Linyu, Yin, H., Li, Z., & Li, S. (2014). Land ecological security evaluation of Guangzhou, China. *International Journal of Environmental Research and Public Health*, 11(10), 10537–10558.
<https://doi.org/10.3390/ijerph111010537>
- Xu, Liting, Chen, S. S., Xu, Y., Li, G., & Su, W. (2019). Impacts of land-use change on habitat quality during 1985-2015 in the Taihu Lake Basin. *Sustainability (Switzerland)*, 11(13). <https://doi.org/10.3390/su11133513>
- Xue, J., & Su, B. (2017). *Significant Remote Sensing Vegetation Indices: A Review of Developments and Applications*.
<https://doi.org/10.1155/2017/1353691>
- Yan, J., Zhou, W., Han, L., & Qian, Y. (2018). Mapping vegetation functional types in urban areas with WorldView-2 imagery: Integrating object-based classification with phenology. *Urban Forestry and Urban Greening*, 31(January), 230–240. <https://doi.org/10.1016/j.ufug.2018.01.021>
- Yan, S., Wang, X., Cai, Y., Li, C., Yan, R., Cui, G., & Yang, Z. (2018). An integrated investigation of spatiotemporal habitat quality dynamics and driving forces in the upper basin of Miyun Reservoir, North China. In *Sustainability (Switzerland)* (Vol. 10, Issue 12).
<https://doi.org/10.3390/su10124625>
- Yang, J., Huang, C., Zhang, Z., & Wang, L. (2014). *Urban Forestry & Urban Greening The temporal trend of urban green coverage in major Chinese cities between 1990 and 2010*. 13, 19–27.

- Yang, J., & Li, X. M. (2010). Assessment on spatial differentiation of urban ecological security based on DPSIRM framework-the case of Dalian. *2010 2nd Conference on Environmental Science and Information Application Technology, ESIAT 2010*, 2, 144–149.
<https://doi.org/10.1109/ESIAT.2010.5567295>
- Yang, L., Qian, F., Song, D. X., & Zheng, K. J. (2016). Research on Urban Heat-Island Effect. *Procedia Engineering*, 169, 11–18.
<https://doi.org/10.1016/j.proeng.2016.10.002>
- Yang, Q., Liu, G., Hao, Y., Coscieme, L., Zhang, J., Jiang, N., Casazza, M., & Giannetti, B. F. (2018). Quantitative analysis of the dynamic changes of ecological security in the provinces of China through emergy-ecological footprint hybrid indicators. *Journal of Cleaner Production*, 184, 678–695.
<https://doi.org/10.1016/j.jclepro.2018.02.271>
- Yang, S., & Berdine, G. (2017). The receiver operating characteristic (ROC) curve. *The Southwest Respiratory and Critical Care Chronicles*, 5(19), 34.
<https://doi.org/10.12746/swrccc.v5i19.391>
- Yang, Xiaochang, Li, S., Zhu, C., Dong, B., & Xu, H. (2022). Simulating urban expansion based on ecological security pattern—a case study of hangzhou, china. *International Journal of Environmental Research and Public Health*, 19(1). <https://doi.org/10.3390/ijerph19010301>
- Yang, Xiaojun. (2011). Parameterizing Support Vector Machines for Land Cover Classification. *Photogrammetric Engineering & Remote Sensing*, 77(1), 27–37.
- Yang, Xuchao, Ye, T., Zhao, N., Chen, Q., Yue, W., Qi, J., Zeng, B., & Jia, P. (2019). Population Mapping with Multisensor Remote Sensing Images and Point-Of-Interest Data. *Remote Sensing*, 11(5), 574.
<https://doi.org/10.3390/rs11050574>
- Yang, Yanping, Chen, J., Huang, R., Feng, Z., Zhou, G., You, H., & Han, X. (2022). Construction of Ecological Security Pattern Based on the Importance of Ecological Protection—A Case Study of Guangxi, a Karst Region in China. *International Journal of Environmental Research and Public Health*, 19(9). <https://doi.org/10.3390/ijerph19095699>
- Yang, Yijia, Song, G., & Lu, S. (2020). Assessment of land ecosystem health with Monte Carlo simulation: A case study in Qiqihaer, China. *Journal of Cleaner Production*, 250, 119522.
<https://doi.org/https://doi.org/10.1016/j.jclepro.2019.119522>
- Yang, Yuanyuan. (2021). Evolution of habitat quality and association with land-use changes in mountainous areas: A case study of the Taihang Mountains in Hebei Province, China. *Ecological Indicators*, 129, 107967.
<https://doi.org/10.1016/j.ecolind.2021.107967>
- Yang, Yuejuan, Zhang, H., Zhao, X., Chen, Z., Wang, A., Zhao, E., & Cao, H. (2021). Effects of Urbanization on Ecosystem Services in the Shandong Peninsula Urban Agglomeration, in China: The Case of Weifang City. *Urban Science*, 5(3), 54. <https://doi.org/10.3390/urbansci5030054>
- Yao, X., & Thill, J. C. (2005). How far is too far? - A statistical approach to context-contingent proximity modeling. *Transactions in GIS*, 9(2), 157–178.

- <https://doi.org/10.1111/j.1467-9671.2005.00211.x>
- Ye, H., Ma, Y., & Dong, L. (2011). Land ecological security assessment for bai autonomous prefecture of dali based using PSR model-with data in 2009 as case. *Energy Procedia*, 5, 2172–2177.
<https://doi.org/10.1016/j.egypro.2011.03.375>
- Ye, J. (2015). Evaluation on Ecological Security of Land in Jining Based on BP Neural Network. *International Conference on Materials, Environmental and Biological Engineering (MEBE 2015) Evaluation*, 21–25.
- Yin, H., Kong, F., Hu, Y., James, P., Xu, F., & Yu, L. (2016). Assessing Growth Scenarios for Their Landscape Ecological Security Impact Using the SLEUTH Urban Growth Model. *Journal of Urban Planning and Development*, 142(2), 05015006. [https://doi.org/10.1061/\(asce\)up.1943-5444.0000297](https://doi.org/10.1061/(asce)up.1943-5444.0000297)
- Yin, Jie, & Fan, K. (2012). Study on Urban Ecological Security Pattern : A Case of Taicang City in China. *IEEE*, 41101137, 1–4.
- Yin, Jingbo, Li, H., Wang, D., & Liu, S. (2020). Optimization of Rural Settlement Distributions Based On the Ecological Security Pattern: A Case Study of Da'an City in Jilin Province of China. *Chinese Geographical Science*, 30(5), 824–838. <https://doi.org/10.1007/s11769-020-1128-x>
- Ying, A. (2022). *Review of Tourism Ecological Security from the Perspective of Ecological Civilization Construction Published By : Institute of Geographic Sciences and Natural Resources Review of Tourism Ecological Security from the Perspective of Ecological Civilization* . 13(4), 734–745.
<https://doi.org/10.5814/j.issn.1674-764x.2022.04.018>
- Ying, X., Zeng, G. M., Chen, G. Q., Tang, L., Wang, K. L., & Huang, D. Y. (2007a). Combining AHP with GIS in synthetic evaluation of eco-environment quality-A case study of Hunan Province, China. *Ecological Modelling*, 209(2–4), 97–109.
<https://doi.org/10.1016/j.ecolmodel.2007.06.007>
- Ying, X., Zeng, G. M., Chen, G. Q., Tang, L., Wang, K. L., & Huang, D. Y. (2007b). Combining AHP with GIS in synthetic evaluation of eco-environment quality-A case study of Hunan Province, China. *Ecological Modelling*, 209(2–4). <https://doi.org/10.1016/j.ecolmodel.2007.06.007>
- You, H. (2013). Assessing land ecological security based on BP neural network: A case study of Hangzhou, China. *Journal of Computers (Finland)*, 8(6), 1394–1400. <https://doi.org/10.4304/jcp.8.6.1394-1400>
- Yu, D., Wang, D., Li, W., Liu, S., Zhu, Y., Wu, W., & Zhou, Y. (2018). Decreased landscape ecological security of peri-urban cultivated land following rapid urbanization: An Impediment to sustainable agriculture. *Sustainability (Switzerland)*, 10(2). <https://doi.org/10.3390/su10020394>
- Yu, K., Chen, Y., Wang, D., Chen, Z., Gong, A., & Li, J. (2019). Study of the seasonal effect of building shadows on urban land surface temperatures based on remote sensing data. *Remote Sensing*, 11(5).
<https://doi.org/10.3390/rs11050497>
- Yu, W., & Zhou, W. (2017). The Spatiotemporal Pattern of Urban Expansion in China: A Comparison Study of Three Urban Megaregions. *Remote Sensing*,

- 9(1), 45. <https://doi.org/10.3390/rs9010045>
- Yuan, F., & Bauer, M. E. (2007). Comparison of impervious surface area and normalized difference vegetation index as indicators of surface urban heat island effects in Landsat imagery. *Remote Sensing of Environment*, 106(3), 375–386. <https://doi.org/10.1016/j.rse.2006.09.003>
- Yuan, Y., Bai, Z., Zhang, J., & Xu, C. (2022). Increasing urban ecological resilience based on ecological security pattern: A case study in a resource-based city. *Ecological Engineering*, 175(May 2021), 106486. <https://doi.org/10.1016/j.ecoleng.2021.106486>
- Yue, D., Cheng, S., Guo, X., & Yang, Y. (2011). Study on Ecological Security Evaluation of Beijing City. *IEEE*, 51038001, 6329–6333.
- Yue, H., Liu, Y., Li, Y., & Lu, Y. (2019). Eco-environmental quality assessment in china's 35 major cities based on remote sensing ecological index. *IEEE Access*, 7, 51295–51311. <https://doi.org/10.1109/ACCESS.2019.2911627>
- Yue, W., Liu, X., Zhou, Y., & Liu, Y. (2019). Impacts of urban configuration on urban heat island: An empirical study in China mega-cities. *Science of the Total Environment*, 671, 1036–1046. <https://doi.org/10.1016/j.scitotenv.2019.03.421>
- Zebradast, L., Salehi, E., & Afrasidabi, H. (2015). Application of DPSIR Framework for Integrated Environmental Assessment of Urban Areas: A Case Study of Tehran. *International Journal of Environmental Research*, 9(2), 445–456. file:///C:/Users/jcarrera/Downloads/IJER9171427830200(1).pdf
- Zha, Y., Gao, J., & Ni, S. (2003). Use of normalized difference built-up index in automatically mapping urban areas from TM imagery. *International Journal of Remote Sensing*, 24(3), 583–594. <https://doi.org/10.1080/01431160210144570>
- Zhang, D., Wang, X., Qu, L., Li, S., Lin, Y., Yao, R., Zhou, X., & Li, J. (2020). Land use/cover predictions incorporating ecological security for the Yangtze River Delta region, China. *Ecological Indicators*, 119(October 2019), 106841. <https://doi.org/10.1016/j.ecolind.2020.106841>
- Zhang, H., & Xu, E. (2017a). An evaluation of the ecological and environmental security on China's terrestrial ecosystems. *Scientific Reports*, 7(1), 1–12. <https://doi.org/10.1038/s41598-017-00899-x>
- Zhang, H., & Xu, E. (2017b). An evaluation of the ecological and environmental security on China's terrestrial ecosystems. *Scientific Reports*, 7(1), 1–12. <https://doi.org/10.1038/s41598-017-00899-x>
- Zhang Jingzhaoa, Zhu Yunhaib, Wu Hongzhib, J. (2005). *The Ecological Security Analysis Of Jinan City Based On Land Use / Cover Change*. 317–321.
- Zhang, Q., Chen, J. C. H., & Chong, P. P. (2004). Decision consolidation: criteria weight determination using multiple preference formats. *Decision Support Systems*, 38(2), 247–258. [https://doi.org/10.1016/S0167-9236\(03\)00094-0](https://doi.org/10.1016/S0167-9236(03)00094-0)
- Zhang, R., Pu, L., Li, J., Zhang, J., & Xu, Y. (2016). Landscape ecological security response to land use change in the tidal flat reclamation zone, China. *Environmental Monitoring and Assessment*, 188(1), 1–10.

- <https://doi.org/10.1007/s10661-015-4999-z>
- Zhang, S., Shao, H., Li, X., Xian, W., Shao, Q., Yin, Z., Lai, F., & Qi, J. (2022). Spatiotemporal Dynamics of Ecological Security Pattern of Urban Agglomerations in Yangtze River Delta Based on LUCC Simulation. *Remote Sensing*, 14(2). <https://doi.org/10.3390/rs14020296>
- Zhang, X. C., Ma, C., Zhan, S. F., & Chen, W. P. (2012). Evaluation and simulation for ecological risk based on emergy analysis and Pressure-State-Response Model in a coastal city, China. *Procedia Environmental Sciences*, 13(2011), 221–231. <https://doi.org/10.1016/j.proenv.2012.01.021>
- Zhang, Xiaorui, Wang, Z., & Lin, J. (2015). GIS based measurement and regulatory zoning of urban ecological vulnerability. *Sustainability (Switzerland)*, 7(8), 9924–9942. <https://doi.org/10.3390/su7089924>
- Zhang, Xinchang, Chen, M., Guo, K., Liu, Y., Liu, Y., Cai, W., Wu, H., Chen, Z., Chen, Y., & Zhang, J. (2021). Regional land eco-security evaluation for the mining city of daye in China using the GIS-based grey topsis method. *Land*, 10(2), 1–18. <https://doi.org/10.3390/land10020118>
- Zhang, Xueru, Song, W., Lang, Y., Feng, X., Yuan, Q., & Wang, J. (2020). Land use changes in the coastal zone of China's Hebei Province and the corresponding impacts on habitat quality. *Land Use Policy*, 99(July 2019), 104957. <https://doi.org/10.1016/j.landusepol.2020.104957>
- Zhang, Y. Z., Jiang, Z. Y., Li, Y. Y., Yang, Z. G., Wang, X. H., & Li, X. B. (2021). Construction and optimization of an urban ecological security pattern based on habitat quality assessment and the minimum cumulative resistance model in Shenzhen City, China. *Forests*, 12(7), 1–24. <https://doi.org/10.3390/f12070847>
- Zhang, Yang, Jiang, P., Zhang, H., & Cheng, P. (2018). Study on Urban Heat Island Intensity Level Identification Based on an Improved Restricted Boltzmann Machine. *International Journal of Environmental Research and Public Health*, 15(186). <https://doi.org/10.3390/ijerph15020186>
- Zhang, Yue, Chang, Y., Yu, K., Zhang, L., & Li, X. (2021). Difference analysis of ecological vulnerability and zoning changes of national energy and chemical bases using fahp method. *International Journal of Environmental Research and Public Health*, 18(13). <https://doi.org/10.3390/ijerph18136785>
- Zhang, Yue, Zhang, L., Yu, K., & Zou, Y. (2020). Analysis of the characteristics of ecological security zoning and its dynamic change pattern: A case study of the Weibei area. *Sustainability (Switzerland)*, 12(17). <https://doi.org/10.3390/su12177222>
- Zhao, C. R., Zhou, B., & Su, X. (2014). Evaluation of urban eco-security-A case study of Mianyang City, China. *Sustainability (Switzerland)*, 6(4), 2281–2299. <https://doi.org/10.3390/su6042281>
- Zhao, H., Liu, D., Li, F., Liu, X., Niu, J., He, J., & Liu, Y. (2021). Incorporating spatio-temporal connectivity for prioritized conservation of individual habitat patches in a dynamic landscape. *Ecological Indicators*, 124, 107414. <https://doi.org/10.1016/j.ecolind.2021.107414>
- Zhao, Jincai, Ji, G., Tian, Y., Chen, Y., & Wang, Z. (2018). Environmental vulnerability assessment for mainland China based on entropy method.

- Ecological Indicators*, 91(October 2017), 410–422.
<https://doi.org/10.1016/j.ecolind.2018.04.016>
- Zhao, Jing. (2017). *Ecological security assessment based on lucc and rs / gis in jinan city*.
- Zhao, Q., & Yang, Z. F. (2007). Advances in assessment method for the urban ecological security in china. *6th International Conference on Environmental Informatics, ISEIS 2007*.
- Zhou, D., Tian, Y., & Jiang, G. (2018). Spatio-temporal investigation of the interactive relationship between urbanization and ecosystem services: Case study of the Jingjinji urban agglomeration, China. *Ecological Indicators*, 95, 152–164. <https://doi.org/https://doi.org/10.1016/j.ecolind.2018.07.007>
- Zhou, K., Liu, Y., Tan, R., & Song, Y. (2014). Urban dynamics, landscape ecological security, and policy implications: A case study from the Wuhan area of central China. *Cities*, 41, 141–153.
<https://doi.org/10.1016/j.cities.2014.06.010>
- Zhou, W., & Wang, R. (2005). Methodology assessment of urban ecological security-A case study of Beijing. *Chinese Journal of Ecology*, 24(7), 848–852.
- Zhou, X., Yang, Z., & Xu, L. (2010). Eco-security monitoring index system for urban development zone. *Procedia Environmental Sciences*, 2(5), 1199–1205. <https://doi.org/10.1016/j.proenv.2010.10.130>
- Zhou, Y. Y. (2009). *Urban ecological security assessment of xiamen city based on gis*. Xiamen University.
- Zhu, C., Zhang, X., Zhou, M., He, S., Gan, M., Yang, L., & Wang, K. (2020). Impacts of urbanization and landscape pattern on habitat quality using OLS and GWR models in Hangzhou, China. *Ecological Indicators*, 117(July), 106654. <https://doi.org/10.1016/j.ecolind.2020.106654>
- Zhu, G., & Blumberg, D. G. (2002). Classification using ASTER data and SVM algorithms:: The case study of Beer Sheva, Israel. *Remote Sensing of Environment*, 80(2), 233–240. [https://doi.org/https://doi.org/10.1016/S0034-4257\(01\)00305-4](https://doi.org/https://doi.org/10.1016/S0034-4257(01)00305-4)
- Zhu, H., Tang, X., Xie, J., Song, W., Mo, F., & Gao, X. (2018). Spatio-temporal super-resolution reconstruction of remote-sensing images based on adaptive multi-scale detail enhancement. *Sensors (Switzerland)*, 18(2).
<https://doi.org/10.3390/s18020498>
- Zhu, Jishuai, Tian, S., Tan, K., & Du, P. (2016). Human settlement analysis based on multi-temporal remote sensing data: A case study of Xuzhou City, China. *Chinese Geographical Science*, 26(3), 389–400.
<https://doi.org/10.1007/s11769-016-0815-0>
- Zhu, Jiulong. (n.d.). Modeling of Urban Ecological Safety Evaluation Based on Fuzzy Matter-Element Theory. *2010 International Conference on Networking and Digital Society*, 2, 372–375.
<https://doi.org/10.1109/ICNDS.2010.5479450>
- Zhu, Xiaolin, & Liu, D. (2014). Accurate mapping of forest types using dense seasonal Landsat. *ISPRS Journal of Photogrammetry and Remote Sensing*, 96, 1–11. <https://doi.org/10.1016/j.isprsjprs.2014.06.012>

- Zhu, Xinming, Wang, X., Yan, D., Liu, Z., & Zhou, Y. (2018). Analysis of remotely-sensed ecological indexes' influence on urban thermal environment dynamic using an integrated ecological index : a case study. *International Journal of Remote Sensing*, 00(00), 1–27.
<https://doi.org/10.1080/01431161.2018.1547448>
- Zhu, Xinming, Wang, X., Yan, D., Liu, Z., & Zhou, Y. (2019). Analysis of remotely-sensed ecological indexes' influence on urban thermal environment dynamic using an integrated ecological index: a case study of Xi'an, China. *International Journal of Remote Sensing*, 40(9), 3421–3447.
<https://doi.org/10.1080/01431161.2018.1547448>
- Zhu, Y., Tian, D., & Yan, F. (2020). Effectiveness of Entropy Weight Method in Decision-Making. *Mathematical Problems in Engineering*, 2020, 1–5.
<https://doi.org/10.1155/2020/3564835>
- Zhu, Z. Q., Liu, L. M., & Zhang, J. L. (2009). Using state and trend analysis to assess ecological security for the vulnerable agricultural ecosystems of Pengyang County in the loess hilly region of China. *International Journal of Sustainable Development and World Ecology*, 16(1), 15–21.
<https://doi.org/10.1080/13504500902749210>