



DAFTAR PUSTAKA

- Abbasi, T., Abbasi, S. 2012. Water-Quality Indices: Looking Back, Looking Ahead. in: *Water Quality Indices*. Amsterdam: Elsevier B.V.
- Abowei, J. F. N. George, A. D. I. 2009. Some physical and chemical characteristics in Okpoka Creek , Niger Delta , Nigeria. *Res. J. Environ. Earth Sci.* 2 (1), 45–53.
- Adeyemo, O. K., Adedokun, O. A., Yusuf, R. K., Adeleye, E. A. 2008. Seasonal changes in physico-chemical parameters and nutrient load of river sediments in ibadan city , Nigeria. *Glob. NEST J.* 10 (3), 326–336.
- Alexakis, D., Tsirhrintzis, A. 2016. Suitability of water quality indices for application in Lakes in the Mediterranean. *Water Resour. Manag.* 30 (5), 1621–1633.
- Anasiru, T. 2005. Analisis perubahan kecepatan aliran pada muara sungai Palu. *SMARTek.* 3(2), 101–112.
- Asdak. 2014. *Hidrologi dan Pengelolaan Daerah Aliran Sungai*. Yogyakarta: Gadjah Mada University Press.
- Baharem, Suprihatin, Indrasti, N. 2014. Management strategy of cibanten river banten province based on the analysis of total maximum daily loads and assimilation capacity. *J. Pengelolaan Sumberd. Alam Dan Lingkung.* 4 (1), 60–69.
- Cao, B., Li, C., Liu, Y., Zhao, Y., Sha, J., Wang, Y. 2015. Estimation of contribution ratios of pollutant sources to a specific section based on an enhanced water quality model. *Environ. Sci. Pollut. Res.*, 22 (10), 7569–7581.
- Carvalho, F. P. 2006. Agriculture , pesticides , food security and food safety. *Environ. Sci. Policy.* 9 (7-8), 685–692.
- Caya, Gunawan, T., Suprodjo, W. S., Muta'ali, L. 2016. Optimalisasi penggunaan lahan untuk agroforestri di daerah aliran sungai Cimanuk Propinsi Jawa Barat. *J. Teknosains.* 4 (1), 39–53.
- Damaianto, B., Masduqi, A. 2014. Indeks pencemaran air laut pantai utara Kabupaten Tuban dengan parameter logam. *Urnal Tek. Pomits.* 3 (1), 1–4.
- Daniel, F. B., Griffith, M. B., Troyer, M. E. 2010. Influences of spatial scale and soil permeability on relationships between land cover and baseflow stream nutrient concentrations. *Environ. Manage.* 45 (2), 336–350.
- Deknock, A., Troyer, N. De, Houbraken, M., Dominguez-granda, L., Nolivos, I., Echelpoel, W. Van, Anne, M., Forio, E., Spanoghe, P., & Goethals, P. 2019. Distribution of agricultural pesticides in the freshwater environment of the Guayas river basin (Ecuador). *Sci. Total Environ.*, 646 pp. 996–1008.



- Dermoredjo, S., Sayaka, B., Suherman. 2006. Pengelolaan Sumber Daya Lahan dan Air Daerah Aliran Sungai: Kasus DAS Cimanuk. in: *Pengelolaan Lahan dan Air di Indonesia*. Jakarta: Badan Penelitian dan Pengembangan Pertanian Departemen Pertanian.
- Effendi, H. 2003. *Telaah Kualitas Air*. Yogyakarta: Kanisius.
- Feng, Y., Danying, Q., Bao, Q., Lin, M., Xigang, X., You, Z., Xiaogang, W. 2016. Improvement of CCME WQI using grey relational method. *J. Hydrol.*, 543 pp. 316–323.
- Fianko, J. R., Osae, S., Adomako, D., Achel, D. G. 2009. Relationship between land use and groundwater quality in six districts in the eastern region of Ghana. *Environ. Monit. Assess.*, 153 pp. 139–146.
- Ginkel, V. 2015. *Water quality in the Bandung Basin Towards a better understanding of the water quality in the Upper Citarum River Basin*. Thesis. University Of Twente: Netherlands.
- Gyawali, S., Techato, K., Yuangyai, C., Musikavong, C. 2013. Assessment of relationship between land uses of riparian zone and water quality of river for sustainable development of river basin, a case study of U-Tapao River Basin, Thailand. *Procedia Environ. Sci.*, 17 pp. 291–297.
- Hassan, F. M., Hussein, F. H. 2008. Effect of chemical and physical properties of river water in Shatt Al-Hilla on phytoplankton communities effect of chemical and physical properties of river water in Shatt Al-Hilla on phytoplankton communities.
- Hindriani, H., Sapei, A., Suprihatin, S., Machfud, M. 2013. Identifikasi daya tampung beban pencemaran sungai ciujung dengan model wasp dan strategi pengendaliannya. *J. Bumi Lestari*, 13 (2), 275–287.
- Kang, J. H., Lee, S. W., Cho, K. H., Ki, S. J., Cha, S. M., Kim, J. H. 2010. Linking land-use type and stream water quality using spatial data of fecal indicator bacteria and heavy metals in the Yeongsan river basin. *Water Res.* 44 (14), 4143–4157.
- Kusumandari, A., Widiyatno, Marsono, D., Sabarnurdin, S., Gunawan, T., Nugroho, P. 2013. Vegetation Clustering in Relation to Erosion Control of Ngrancah Sub Watershed, Java, Indonesia. *Procedia Environ. Sci.*, 17 pp. 205–210.
- Lew, A. A. 2010. *Research Methods in Geography* (Vol. 16). Singapore: A John Wiley & Sons.
- Li, C., Li, S., Yue, F., Liu, J., Zhong, J., Yan, Z., Zhang, R. 2019. Identification of sources and transformations of nitrate in the Xijiang River using nitrate isotopes and Bayesian model. *Sci. Total Environ.*, 646 pp. 801–810.
- Liu, R., Xu, F., Zhang, P., Yu, W., & Men, C. 2016. Identifying non-point source



critical source areas based on multi-factors at a basin scale with SWAT. *J. Hydrol.*, 533 pp. 379–388.

Merchán, D., Luquin, E., Hernández-garcía, I., Campo-bescós, M. A., Giménez, R., Casalí, J., Valle, J. Del, Lersundi, D. 2019. Dissolved solids and suspended sediment dynamics from five small agricultural watersheds in Navarre , Spain : A 10-year study. *Catena*, 173 pp. 114–130.

Mingming, H., Yuchun, W., Pengcheng, D., Yong, S., Aimin, C., Cong, L., Yufei, B. 2019. Tracing the sources of nitrate in the rivers and lakes of the southern areas of the Tibetan Plateau using dual nitrate isotopes. *Sci. Total Environ.*, 658 pp. 132–140.

Mishra, S., Kumar, A., Yadav, S. 2018. Assessment of heavy metal contamination in water of Kali River using principle component and cluster analysis , India. *Sustain. Water Resour. Manag.* 4 (3), 573–581.

Mitsch W., J. Gosselink, 1993. Wetlands. In Water Quality Prevention, Identification and Management of Diffuse Pollution. Van Nostrand Reinhold, New York.

Mustofa, A. 2015. Kandungan nitrat dan pospat sebagai faktor tingkat kesuburan perairan pantai. *J. DISPROTEK*. 6 (1), 13–19.

Nibbering, J. W. 1999. Tree planting on deforested farmlands , Sewu Hills , Java , Indonesia Impact of economic and institutional changes. *Agrofor. Syst.* 46 (1), 65–82.

Nkowacha, E. E., Pat-Mbano, E. C., Nnaji, A. O. 2011. Effect of solid waste dump on river water quality: a paradigm in a Nigeria tropical environment. *Int. J. Sci. Nat.*, 2 pp. 501–507.

Ongley, E. D., Xiaolan, Z., Tao, Y. 2010. Current status of agricultural and rural non-point source pollution assessment in China. *Environ. Pollut.* 158 (5), 1159–1168.

Orr, J. C., Fabry, V. J., Aumont, O., Bopp, L., Doney, S. C., Feely, R. A., Gnanadesikan, A., Gruber, N., Ishida, A., Joos, F., Key, R. M., Lindsay, K., Maier-Reimer, E., Matear, R., Monfray, P., Mouchet, A., Najjar, R. G., Plattner, G. K., Rodgers, K. B., Sabine, C. L., Sarmiento, J. L., Schlitzer, R., Slater, R. D., Totterdell, I. J., Weirig, M. F., Yamanaka, Y., Yool, A. 2005. Anthropogenic ocean acidification over the twenty-first century and its impact on calcifying organisms. *Nature*. 437 pp. 681–686.

Ortolani, V. 2014. Land use and its effects on water quality using the BASINS model. *Environ. Earth Sci.*, 71(5), 2059–2063.

Osibanjo, O., Daso, A. P., Gbadebo, A. M. 2011. The impact of industries on surface water quality of River Ona and River Alaro in Oluyole Industrial Estate, Ibadan, Nigeria. *African J. Biotechnol.*, 10 (4), 696–702.



- Ou, Y., Wang, X., Wang, L., Rousseau, A. N. 2016. Landscape influences on water quality in riparian buffer zone of drinking water source area , Northern China. *Environ. Earth Sci.*, **75** (144),1–13.
- Pérez-Gutiérrez, J. D., Paz, J. O., Tagert, M. L. M. 2017. Seasonal water quality changes in on-farm water storage systems in a south-central U.S. agricultural watershed. *Agric. Water Manag.*, 187 pp. 131–139.
- Poor, C. J., McDonnell, J. J. 2007. The effects of land use on stream nitrate dynamics. *J. Hydrol.* 332 (1-2), 54–68.
- Prameswari, R. A. P., Purnomo, A., Arief, J., Hakim, R., Indonesia, S. 2014. Perencanaan pelayanan air limbah komunal di Desa Krasak Kecamatan Jatibarang Kota Indramayu. *J. Tek. Pomits.* 3 (2), 81–84.
- Pratt, B., Chang, H. 2012. Effects of land cover , topography , and built structure on seasonal water quality at multiple spatial scales. *J. Hazard. Mater.*, 209–210 pp. 48–58.
- Ren, L., Rabalais, N. N., Turner, R. E., Morrison, W., Mendenhall, W. 2009. Nutrient limitation on phytoplankton growth in the Upper Barataria Basin, Louisiana: Microcosm bioassays. *Estuaries and Coasts*. 32 (5), 958–974.
- Reza, M., Saeedi, R., Montazeri, A., Azam, K., Labbafi, S., Oktaie, S., Abtahi, M., Mohagheghian, A. 2013. Assessment of water quality in groundwater resources of Iran using a modified drinking water quality index (DWQI). *Ecol. Indic.*, 30 pp. 28–34.
- Riza, F., Bambang, A. N., Kismartini. 2015. Tingkat pencemaran lingkungan perairan ditinjau dari aspek fisika, kimia dan logam di Pantai Kartini Jepara. *Indones. J. Conserv.* 4 (1), 52–60.
- Rodrigues, V., Estrany, J., Ranzini, M., de Cicco, V., Martín-Benito, J. M. T., Hedo, J., Lucas-Borja, M. E. 2018. Effects of land use and seasonality on stream water quality in a small tropical catchment: The headwater of Córrego Água Limpa, São Paulo (Brazil). *Sci. Total Environ.*, 622–623 pp. 1553–1561.
- Rusydi, A. F. 2008. Penentuan status mutu sumber air untuk pengelolaan dan pengendalian pencemaran air menggunakan metoda indeks pencemaran (Studi kasus: Sukaregang, Kabupaten Garut Jawa Barat). in: *Peran Riset Geoteknologi dalam Mendukung Pembangunan Berwawasan Lingkungan*.
- Said, A., Stevens, D. K. 2004. An innovative index for evaluating water quality in streams. *Environ. Assess.* 34 (3), 406–414.
- Seif, H., Malak, M. 2001. Textile wastewater treatment. *Sixth Int. Water Technol. Conf.*, 608–614.
- Shi, P., Zhang, Y., Li, Z., Li, P., Xu, G. 2017. Influence of land use and land cover patterns on seasonal water quality at multi-spatial scales. *Catena*, 151 pp. 182–190.



- Siahaan, A. M. 2017. *Studi evaluasi kualitas daerah aliran sungai Cimanuk dengan metode neraca massa di Kabupaten Indramayu*. Skripsi. Universitas Bakrie. Jakarta. Retrieved from <http://repository.bakrie.ac.id/1370/>
- Simedo, M. B. L., Martins, A. L. M., Pissarra, T. C. T., Lopes, M. C., Costa, R. C. A., Campanelli, L. C., Rojas, N. E. T., Finoto, E. L. 2018. Effect of watershed land use on water quality : a case study in Córrego da Olaria Basin , São Paulo State , Brazil. *Brazilian J. Biol.* 78 (4), 625–635.
- Sosrodarsono, S., Takeda, K. 2006. *Hidrologi Untuk Pengairan* (Kesepuluh). Jakarta: PT Malta Printindo.
- Subin MP, Husna AH. 2013. An assessment on the impact of waste discharge on water quality of Priyar River lets in certain selected sites in the Northern Part of Ernakulum District in Kerala, India. *Int. Res. J. Environ. Sci. ISSN Int. Res. J. Environ. Sci.*, 2 pp. 2319–1414.
- Sudaryono. 2002. Pengelolaan daerah aliran sungai (das) terpadu, konsep pembangunan berkelanjutan. *J. Teknol. Lingkung.*.. 3 (2), 153–158.
- Sulaksana, N., Sukiyah, E., Sjafrudin, A., Haryanto, E. T. 2013. Karakteristik geomorfologi das Cimanuk bagian hulu dan implikasinya terhadap intensitas erosi serta pendangkalan waduk Jatigede. *Bionatura-Jurnal Ilmu-Ilmu Hayati Dan Fis.* 15 (2), 100–106.
- Susilo, S. B., Sjafei, D. S. 2002. Water quality for aquatic life in Cimanuk River, West Java. *J. Ilmu-Ilmu Perair. Dan Perikan. Indones.* 13 (1), 59–67.
- Sutadian, A. D., Muttil, N., Yilmaz, A. G., Perera, B. J. C. 2018. Development of a water quality index for rivers in West Java Province, Indonesia. *Ecol. Indic.*, 85 pp. 966–982.
- Sutriati, A. 2011. Penilaian kualitas air sungai dan potensi pemanfaatannya. Studi kasus Sungai Cimanuk. *J. Sumber Daya Air*, 7 pp. 1–17.
- Swiechowicz, J. 2002. Linkage of slope wash and sediment and solute export from a foothill catchment in the carpathian foothills of South Poland. *Earth Surf. Process. Landforms.* 27 (13), 1389–1413.
- Triatmodjo, B. 1999. *Teknik Pantai*. Yogyakarta: Beta Ofset.
- Tu, J. 2011. Spatially varying relationships between land use and water quality across an urbanization gradient explored by geographically weighted regression. *Appl. Geogr.* 31 (1), 376–392.
- van Dijk, A. I. J. M., Keenan, R. J. 2007. Planted forests and water in perspective. *For. Ecol. Manage.* 251 (1-2), 1–9.
- Venkatesharaju, K., Ravikumar, P., Somashekhar, R., Prakash, K. 2010. Physico-Chemical and Bacteriological Investigation on the River Cauvery of Kollegal Stretch in Karnataka. *Kathmandu Univ. J. Sci. Eng. Technol.* 6 (1), 50-59.



- Wang, W., Liu, X., Wang, Y., Guo, X., Lu, S. 2016. Analysis of point source pollution and water environmental quality variation trends in the Nansi Lake basin from 2002 to 2012. *Environ. Sci. Pollut. Res.* 25 (5), 4886–4897.
- Wang, X., Hao, F., Cheng, H., Yang, S., Zhang, X., Bu, Q. 2011. Estimating non-point source pollutant loads for the large-scale basin of the Yangtze River in China. *Environ. Earth Sci.* 63 (5), 1079–1092.
- Widayati, I., Suprayogi, S., M. Widyastuti. 2011. Kajian kualitas air sungai Bedog akibat pembuangan limbah cair sentra industri batik Desa Wijirejo. *Maj. Geogr. Indones.*, 25 (1), 56–69.
- Widyastuti, M., Cahyadi, A., Sasongko, M. H. D. 2016. Hidrologi dan Hidrogeologi Karst. in: E. Haryono (ed.), *Pedoman Praktis Survei Terintegrasi Kawasan Karst*. Yogyakarta: Badan Penerbit Fakultas Geografi (BPGF) Universitas Gadjah Mada.
- Wilson, C., Weng, Q. 2010. Assessing surface water quality and its relation with urban land cover changes in the Lake Calumet Area, Greater Chicago. *Environ. Manage.* 45 (5), 1096–1111.
- Woldeab, B., Ambelu, A. 2019. Effect of watershed land use on tributaries' water quality in the east African Highland. *Environ. Monit. Assess.*, 191 pp. 1–13.
- Xu, G., Li, P., Lu, K., Tantai, Z., Zhang, J., Ren, Z., Wang, X. 2019. Seasonal changes in water quality and its main influencing factors in the Dan River basin. *Catena*, 173 pp. 131–140.
- Yang, H., Wang, G., Wang, L., Zheng, B. 2016. Impact of land use changes on water quality in headwaters of the Three Gorges Reservoir. *Environ. Sci. Pollut. Res.* 23 (12), 11448–11460.
- Yang, X., Xie, X., Liu, D. L., Ji, F., Wang, L. 2015. Spatial Interpolation of Daily Rainfall Data for Local Climate Impact Assessment over Greater Sydney Region. *Adv. Meteorol.* 2015 pp. 1–12.
- Ye, L., Liu, A. Q. C. A. R. 2009. The influence of topography and land use on water quality of Xiangxi River in Three Gorges Reservoir region. *Environ. Geol.* 58 (5), 937–942.
- Yisa, J., Jimoh, T. 2010. Analytical studies on water quality index of river Landzu. *Am. J. Appl. Sci.* 7 (4), 453–458.
- Yoshinaga, I., Miura, A., Hitomi, T., Hamada, K., Shiratani, E. 2007. Runoff nitrogen from a large sized paddy field during a crop period. *Agric. Water Manag.* 87 (2), 217–222.
- Yu, S., Xu, Z., Wu, W., Zuo, D. 2016. Effect of land use types on stream water quality under seasonal variation and topographic characteristics in the Wei River basin, China. *Ecol. Indic.*, 60 pp. 202–212.
- Yustiani, Y. M., Wahyuni, S., Alfian, M. R. 2018. Investigation on the



deoxygenation rate of water of cimanuk river, Indramayu, Indonesia. *Rasayan J. Chem.*, 11 pp. 475–481.

Zhang, H., Yu, Y., Hu, H. 2011. Economy growth and agricultural non-point source pollution: An empirical analysis: Based on provincial paneldata (1990-2007). *Energy Procedia*, 5 pp. 545–549.

Peraturan-Peraturan

Kepmen LH Nomor 115 Tahun 2003 Tentang Pedoman Penentuan Status Mutu Air.

Peraturan Gubernur Jawa Barat Nomor 12 Tahun 2013 Tantang Baku Mutu Air dan Pengendalian Pencemaran Air Sungai Cimanuk, Sungai Cilamaya dan Sungai Bekasi.

Permen LH No. 01 Tahun 2010 Tentang Tata Laksana Pengendalian Pencemaran Air.

Permen LH No. 05 Tahun 2014 Tentang Baku Mutu Air Limbah.

PP No. 37 Tahun 2012 Tentang Pengelolaan DAS.

PP No. 38 Tahun 2011 Tentang Sungai.

PP No. 82 Tahun 2001 Tentang Pengelolaan Kualitas Air dan Pengendalian Pencemaran Air.

Internet

Watershed. Diakses 10 Oktober 2018 dari
<http://www.lakecountyil.gov/2375/Watersheds>

Sources of Pollution. Diakses 10 Oktober 2018 dari
<https://www.eea.europa.eu/archived/archived-content-water-topic/water-pollution/figures-and-maps/sources-of-pollution/view>