

DAFTAR PUSTAKA

- Abari, M.E., Majnounian, B., Malekian, A., Jourgholami, M., 2017. *Effects of forest harvesting on runoff and sediment characteristics in the Hyrcanian forests, northern Iran*. Eur J Forest Res (2017) 136:375–386. DOI 10.1007/S10342-017-1038-3
- Abdulkareem, M., Elkadi, H., 2018. *From engineering to evolutionary, an overarching approach in identifying the resilience of urban design to flood*. Int. J. Disaster Risk Reduct. 28 176–190. homepage:www.elsevier.com/locate/ijdr
- Adamson, M., Cussen, N., 2003. *Flood risk and development a sustainable and appropriate Approach*. In: Proseding of The National Hidrology International Conference. Tulamore Co Offaly. Ireland 11th November 2003.
- Alila, Y., Kuras, P.K., Schnorbus, M., Hudson R., 2009. *Forests and floods: a new paradigm sheds light on age-old controversies*. Water Resour Res 45(8):84–99
- Arsyad, S., 2010. *Konservasi Tanah dan Air*. Bogor: IPB Press.
- Asdak, C., 2010. *Hidrologi dan Pengelolaan DAS*. Gadjah Mada University Press. Yogyakarta.
- Austin, K.G.A., Mosnier, J., Pirker, I., McCallum, S. Fritz, P.S. Kasibhatla., 2017. *Shifting patterns of oil palm driven deforestation in Indonesia and implications for zero-deforestation commitments*. Land Use Policy Journal. homepage.www.elsevier.com/locate/landusepol
- Avinash, S., 2016. *Flood related disasters: concerned to urban flooding in Bangalore, India*. Int. J. Res. Eng. Technol. 76–83. <https://ijret.org/volumes/2014v03/i28/IJRET20140328013.pdf>. Acces 28/3/2019
- Baskoro, D.P.T., 2017. *Kelapa Sawit : Benarkah Rakus Air ? Media untuk Kemajuan Pertanian Indonesia Buletin Faperta IPB*. Posted on August 14, 2017. Acces 8/8/2019
- Basyuni, M., Agustina, L., Murni, M.B., 2015. *Implication of land-use and land-cover change into carbon dioxide emissions in Karang Gading and Langkat Timur wildlife reserve, North Sumatra, Indonesia*. Jurnal Manajemen Hutan Tropika 21 (1):25–35. <https://doi.org/10.7226/jffm.21.1.25>

- Barokah, I., Purwantoro, D., 2014. Pengaruh variasi debit aliran terhadap gerusan maksimal di bangunan jembatan dengan menggunakan program HEC-RAS. *INERSIA Jurnal* 10 (2): 175184.
- Bera, S., Bhandari, A., 2013. *Assessment of Flood Hazard Zone Using Remote Sensing & GIS – A Case Study of Subarnarekha River Basin*. *International Journal of Science and Research (IJSR)* ISSN (Online): 2319-7064 .www.ijsr.net
- Biswas, S., Kranz, W.L., Shapiro, C.A., Snow, D.D., Hunt, S.L.B, Mamo, M., Tarkalson, D.D., Zhang, T.C., Shelton, D.P., Donk, S.J.V., Mader, T.L., 2017. *Effect of rainfall timing and tillage on the transport of steroid hormones in runoff from manure amended row crop fields*. *Journal Hazardous Materials* 324: 436-447.
- BPBD Jayapura. 2011. Banjir Bandang Pania. <http://www.beritainfosehat.net/2011/01/05banjir-bandang-di-paniai-papua.htm>
- BPBD Manokwari, 2014. Kronologis Banjir Bandang Papua Barat. <http://www.berita infosehat.net/2014/02/15banjir-bandang-di-manokwari-papua.html>
- BPBD Manokwari, 2106. Ini Dampak Bencana Banjir Bandang dan Longsor. *Cahayapapua.com*. <http://www.cahayapapua.com/13334/21-03-2017>
- BPDAS Remu Ransiki, 2013. Laporan Monitoring dan Evaluasi Pengelolaan DAS Arui tahun 2013. Kementerian Kehutanan. Jakarta.
- , 2014. Laporan Monitoring dan Evaluasi Pengelolaan DAS Arui tahun 2014. Kementerian Lingkungan Hidup dan Kehutanan. Jakarta.
- , 2015. Laporan Monitoring dan Evaluasi Pengelolaan DAS Arui tahun 2015. Kementerian Lingkungan Hidup dan Kehutanan. Jakarta.
- BPDASHL Remu Ransiki, 2016. Laporan Monitoring dan Evaluasi Pengelolaan DAS Arui tahun 2016. Kementerian Lingkungan Hidup dan Kehutanan. Jakarta.
- BPDASHL Remu Ransiki 2017. Laporan Monitoring dan Evaluasi Pengelolaan DAS Arui tahun 2017. Kementerian Lingkungan Hidup dan Kehutanan. Jakarta.
- BPDASHL Remu Ransiki 2018. Laporan Monitoring dan Evaluasi Pengelolaan DAS Arui tahun 2018. Kementerian Lingkungan Hidup dan Kehutanan. Jakarta.
- BP2TP DAS Surakarta, 2004. Pedoman Monitoring dan Evaluasi Pengelolaan DAS. Balai Penelitian dan Pengembangan Teknologi Pengelolaan DAS. Surakarta.

- Budiranto, H.J., Mahmud, Wahyudi, Lekitoo, K., 2015. Jenis endemik papua dan kelimpahan vegetasi pada tanah mediteran di Hutan Lindung Maruni 1 (HLM I) Kabupaten Manokwari. Proseding Seminar Nasional Perhimpunan Biologi Indonesia(PBI) XXIII:23-34. Jayapura.
- Braud, I., Vich, A.I.J., Zuluaga, J., Fomero, L., Pedrani, A., 2001. *Vegetation influence on runoff and sediment yield in the Andes Region: observation and modeling*. J. Hydrol. 254, 124–144.
- Brown, A.E., Zhang, L., McMahon, T.A., Western, A.W., Vertessy, R.A., 2005. *A review of paired catchment studies for determining changes in water yield resulting from alterations in vegetation*. J Hydrol 310(1–4):28–61
- BWS Papua Barat. 2017. Data Curah hujan Tahun 2013 sampai 2017. Balai Wilayah Sungai Manokwari. Papua Barat.
- Chaves, J., Neill, C., Gerner, S., Neto, S.G., Krusche, A., Elsenbeer, H., 2008. *Land management impacts on runoff sources in small Amazon watersheds*. Hydrol Process 22(12):1766–1775
- Cosandey ,C., Andreassian, V., Martin, C., Didon-Lescot J.F., Lavabre, J., Folton, N., Mathys, N., Richard, D., 2005. *The hydrological impact of the Mediterranean forest: a review of French research*. J Hydrol 301(1):235–249
- Demsey, J.A., Plantinga, A.j., Kline, J.D., Lawler J.J., Martinuzzi, S., Radeloff, V.C., Bigelow, D.P., 2017. *Effects of local land use planning on development and disturbance in riparian areas*. Land Use Policy Journal 60:16–25. <https://doi.org/10.1016/j.landusepol.2016.10.011>.
- Doerr, S., and Shakesby, R., 2006. *Forest fire impacts on catchment hydrology: a critical review*. For Ecol Manag 234:161–173
- Departemen Pertanian.2009. Analisis Kimia Tanah, Tanaman, Air dan Pupuk. Petunjuk Teknis edisi 2. Balai Penelitian Tanah. Departemen Pertanian. Jakarta.
- Dury, G.H., 1969. *Relation of Morphometry to Runoff Frequency*. In Chorley RH., Water Earth and Man. Londo: Matheu &Co.Ltd.
- Fuchs, M., Reverman, R., Owen, L.A., Frankel, K.L., 2016. *Reconstructing the timing of flash floods using dating at Leidy Creek alluvial fan and valley, White Mountains, California–Nevada, USA*. Quaternary Research Journal 83(1):178–186. <https://doi.org/10.1016/j.yqres.2014.08.006>.
- Guzha, A. C., Nobrega, R. L. B., Kovacs, K., Rebola, J., Amorim, R. S. S. and Gerold, G., 2015. *Characterizing rainfall-runoff signatures from microcatchments with*

- contrasting land cover characteristics in southern Amazonia*. Hydrological Processes, 29 (4). pp. 508-521. ISSN 0885-6087
doi:<https://doi.org/10.1002/hyp.10161> <http://centaur.reading.ac.uk/76899/>
- Habibi,Y.,2016. Jelang Musim Hujan Normalisasi Sungai Digiatkan [http:// www.nasional.republika.com](http://www.nasional.republika.com). Rabu, 04 November 2015, 18:38 WIB
- Hallegatte, S., Green, C., Nicholas, R.J., Corfee, M.J., 2013. *Future flood losses in major coastal cities*. Nature Climate Change, 3, 802–806. doi:10.1038/ nclimate1979
- Hamududu, B., Killingtveit, A., 2012. *Assessing climate change impacts on global hydropower*. Energies 5, 305–322
- Hardjowigeno dan Luthfi, M., 2005. Tanah Sawah. Bayumedia Publishing, Malang
- Hardjowigeno, S., 2008. Morfologi dan Klasifikasi Tanah. Gadjah Mada University Press. Yogyakarta.
- Hartina, S., 2015. Pemodelan resiko Banjir Genangan Pada Lahan Sawah di Sebagian wilayah Pesisir Utara Jawa Tengah. Disertasi Doktor ilmu Geografi UGM. Yogyakarta.
- Heatubun, C. D., Zona, S., Baker, W. J., 2014. *Three new genera of arecoid palm (Arecaceae)* 59(1), 61–68. Kew Bulletin,
- Helman, D., Osem,Y., Yakir, D., Lensky, I.M., 2017. *Relationships between climate, topography, water use and productivity in two key Mediterranean forest types with different water-use strategies*. Agricultural and Forest. Meteorology Journal.232:319-330. <https://doi.org/10.1016/j.agrformet.2016.08.018>
- Herlambang, A., 2009. Pengendalian Pencemaran Lingkungan. Pusat Teknologi Lingkungan BPPT. Jakarta.
- Hidayat, W.E.,Rustiadi, E., Kartodiharjo, H., 2015. Dampak pertambangan terhadap perubahan penggunaan lahan dan kesesuaian peruntukan ruang (Studi kasus Kabupaten Luwu Timur, Provinsi Sulawesi Selatan). Jurnal Perencanaan Wilayah dan Kota 26 (2): 130–146. <https://doi.org/10.5614/jpwk.2015.26.2.5>
- Hidayat, R dan Iswardoyo,J., 2019. Banjir Bandang di Alas malang Banyuwangi dan Alternatif Penanganannya (*Flash flood at Alasmalang Banyuwangi and alternatives for its completion*) Jurnal Penelitian Pengelolaan Daerah Aliran Sungai (*Journal of Watershed Management Research*) vol. 3 No.2, Oktober 2019 : 127-140 <https://doi.org/10.20886/jppdas.2018.2.1.61-72E>-ISSN: 2579-5511/ P-ISSN: 2579-6097

Idris, M.H., Mahrup, 2017. *Changes in hydrological response of forest conversion to agroforestry and rainfed agriculture In Reggung Watershed, Lombok, Eastern, Indonesia.* Jurnal Manajemen Hutan Tropika 23 (2): 102110. <https://doi.org/10.7226/jffm.23.2.102>.

ILRI,1974. *Drainage Principles and Applications*, ILRI, Wagenigen, The Netherlands

Indrawan, D., 2017. Penangan Banjir Harus Holistik. Kompas, 12-11-2017. Bandung.

Joga, N.,2018. Normalisasi dan Naturalisasi Sungai, Apa Bedanya? Kompas.com - <https://megapolitan.kompas.com/read/2018/02/08/20130481/> 08/02/2018, 20:13 WIB

Juliansah, 2015. Normalisasi Sungai di Sambas Mendesak Dilakukan. <http://www.nasional.republika.com>. Kamis, 23 Mei 2016.

Kartosapoetra, G., Kartosapoetra, A.G., dan Sutedjo, M.M., 1991. Teknologi Konservasi Tanah dan Air. PT. Rineka Cipta. Jakarta.

Kementerian Pertanian.1980. Menteri Pertanian No. 837/Kpts/Um/11/1980. Tentang Tata Cara Penetapan Hutan Lindung. Menteri Pertanian. Jakarta.

Kementerian Kehutanan. 2003. Menteri Kehutanan No. 163/ Kpts-II/2003 tentang Pengelompokan Jenis Kayu Sebagai Dasar Pengenaan Iuran Kehutanan. Menteri Kehutanan. Jakarta.

Keputusan Menteri Pertanian. 2006. Keputusan Menteri Pertanian RI No. 160/Kpts/SR.120/3/2006 Tentang Pelepasan Matoa Papua sebagai Varietas Unggul. Menteri Pertanian. Jakarta

Kivits, R.A. 2011. Three component stakeholder analysis. *International Journal of Multiple Research Approaches*. Vol. 5 (3): 318-333.

Kodoatie R.J., Sugiyanto, 2002. Banjir Beberapa Penyebab dan Metode Pengendaliannya Dalam Perspektif Lingkungan. Pustaka Pelajar. Yogyakarta.

Kodoatie, R.J., Sjarief, R., 2005. Pengelolaan Sumber Daya Air Terpadu. Penerbit Andi.Yogyakarta

Korpas, M., Trotscher, T., Völler, S., Tande, J.O., 2013. *Balancing of wind power variations using Norwegian hydro power*. Wind Eng. 37, 79–96.

Kusumandari, A., Soedjoko ,S.A., 2006. Upaya Konservasi Tanah dan Air untuk Menghambat Laju Degradasi Lahan, Bencana Banjir & Longsor Lahan. Wokshop

Nasional. Pengendalian Degradasi Lahan Dalam Rangka Mitigasi Banjir Bandang. Yogyakarta.

Kusumandari, A., 2012. Penanganan konservasi tanah dan air unit ekologis di sub DAS Ngrancah Kulon Progo. Disertasi Fahutan UGM. Yogyakarta.

Kuswandi, R., Sadono, R., Supriyatno, N., Marsono, D., 2015. Keanekaragaman Struktur Tegakan Hutan Alam Bekas Tebangan. *Jurnal Manusia dan Lingkungan*, 22(2), 151–159

Laurans, M., Hérault, B., Vieilledent, G., and Vincent, G., 2014. *Vertical Stratification Reduces Competition for Light in Dense Tropical Forests*. *Forest Ecology and Management*, 329:79-88.

Lei, X., Qiao, Z., Ailian, Z., Ran H., 2013. *Assesment of Flood Catastrophe Risk for Grain Production at The Provencial scale in China Based on the BMM Method*. *Journal of Integrative Agriculture*, 12 Desember 2013, 231002320. Doi:10.1016/S2095-3119(13)60587-0

Li, T., Gao, Y., 2015 *Runoff and Sediment Yield Variations in Response to Precipitation Changes: A Case Study of Xichuan Watershed in the Loess Plateau, China*. *Water*. ISSN 2073-4441 www.mdpi.com/journal/water

Lima, R. A. F., Muller-Landau, H. C., Prado, P. I., Condit, R., 2016. *How Do Size Distributions Relate To Concurrently Measured Demographic Rates ? Evidence From Over 150 Tree Species in Panama*. *Journal of Tropical Ecology*, 32(03), 179–192.

Linsley, R.K., Kohler, M.A., Paulhus, J.L.H., Hermawan, Y., 1986. Hidrologi untuk Insinyur. Penerbit Erlangga. Surabaya.

Ma, L., Lian, J., Lin, G., Cao, H., Huang, Z., Guan, D., 2016. *Forest Dynamics and Its Driving Forces of Sub-Tropical Forest in South China*. *Scientific reports*, 6, 1–10.

Mahmud, 2001. Kadar air tanah di bawah tegakkan *Pometia pinnta* Forst, *Palaquium ambonensis* Burch dan *Instia palembanica* Miq pada kawasan Wanariset 1 BPK Manokwari. Skripsi Sarjana Kehutanan. Unipa. Manokwari

Mahmud, Susanto, S., Budirianto H.J., 2009. Penilaian Status DAS (Studi Kasus Sub DAS Serang) *Agritech Jurnal*. Vol. 29 (4) November, 198–207. <https://doi.org/10.22146/agritech.9697>.

Mahmud, Kusumandari, A., Sudarmadji, Supriyatno, N., 2018. *A Study of Flood Causal Priority in Arui Watershed, Manokwari Regency, Indonesia*. *Jurnal Manajemen*

Hutan Tropika Vol. 24, (2) 81-94, August 2018. Scientific Article EISSN: 2089-2063 ISSN: 2087-0469 DOI: 10.7226/jtfn.24.2.81

Mahmud, Kusumandari, A., Sudarmadji, Supriyatno, N., 2019. Conservation Design and Scenario for Flood Mitigation on Arui Watershed, Indonesia. Indonesian Journal of Geography Vol. 51 No. 3, December 2019 (261-272) DOI: <http://dx.doi.org/10.22146/ijg.37296>

Manan, S., 1998. Hutan, Rimbawan dan Masyarakat. IPB Press. Bogor.

Marfai, M.A., 2011. *Impact of coastal inundation on ecology and agricultural land use case study in Central Java, Indonesia*. Quaestiones Geographicae 30 (3):19–31. <https://doi.org/10.2478/v10117-011-0024-y>.

Maryono, A., 2004. Menangani Banjir, Kekeringan dan Lingkungan. Gadjah Mada University Press. Yogyakarta.

Maryono, A., 2005. Eko-Hidrolik Pembangunan Sungai. Magister Sistem Teknik Program Pasca Sarjana Universitas Gadjah Mada. Yogyakarta.

Maturbongs, R. A., Dransfield, J., & Moge, J. P., 2015. *Daemonorops komsaryi (Arecaceae) a new rattan from the Bird's Head Peninsula, Indonesian New Guinea*, 195(4), 297–300.

Mawazin, dan Subiakto, A., 2013. Keanekaragaman dan Komposisi Jenis Permudaan Alam Hutan Rawa Gambut Bekas Tebangan di Riau. Indonesian Forest Rehabilitation Journal, 1(1):59-73.

Mesquita, R. de C. G., Santos, M. P. E. dos, Massoca, C. C. J., Bentos, T. V., Williamson, G. B., 2015. *Amazon Rain Forest Succession: Stochasticity or Land-Use Legacy*. BioScience, 65(9), 849–861.

Montzka, C., Morton, C., Kunkel, R., Menz, G., Vereecken, H., Wendland, F., 2008. *Modelling The Water Balance Of A Mesoscale Catchment Basin Using Remotely Sensed Land Cover Data*. Journal of Hydrology Science direc 2008. 553,322-334 journal homepage: www.elsevier.com/locate/jhydrol

Moore, R., Wondzell, S., 2005. *Physical hydrology and the effects of forest harvesting in the Pacific Northwest: a review*. J Am Water Resour Assoc 41(4):763–784

Mueller, E.N.P.N., Francke, T., Batalla, R.J., Bronstert, A., 2009. *Modelling the effects of land-use change on runoff and sediment yield for a meso-scale catchment in the Southern Pyrenees*. Catena 79 (3): 288–296. <https://doi.org/10.1016/j.catena.2009.06.007>.

- Muhdin, E., Suhendang, D., Wahjono, H., Purnomo, Istomo, dan Simangunsong, B.C.H., 2008. Keragaman Struktur Tegakan Hutan Alam Sekunder. *J. Man. Hut. Trop.*14(2):81-87.
- Murdjoko, A., Marsono, D., Sadono, R., Hadisusanto, S., 2016a. *Plant Species Composition and Their Conspecific Association in Natural Tropical Rainforest, South Papua*. Biosaintifika: Journal of Biology & Biology Education, 8(1), 33-46.
- Murdjoko, A., Marsono, D., Sadono, R., Hadisusanto, S., 2016b. *Population Dynamics of Pometia for The Period of Post-Selective Logging in Tropical Rainforest, Southern Papua, Indonesia*. Biosaintifika: Journal of Biology & Biology Education, 8(3), 321-330
- Nadapdap, H.J., 2016. *Productivity Dynamic of Rice, Corn and Soybean in Jawa, Indonesia*. Jurnal Penelitian Pertanian Terapan. Vol 17 (1) :1-10. ISSN 1410-5020
- Neuvel, J.M.M., Knaap, W.V.D., 2010. *A spatial planning perspective for measures concerning flood risk management*. International Journal of Water Resources Development. 26 (2) : 283 – 296. <http://dx.doi.org/10.1080/07900621003655668>.
- Ngongondo, C., Xu, C., Gottschalk, L., Alemaw, B., 2011. *Evaluation of spatial and temporal Characteristics of rainfall in Malawi: A case of data scarce region*. Theoretical and Applied Climatology. 106 (12):7993. <https://doi.org/10.1007/s00704-011-0413-0>.
- Nugroho, H., Cahyadi, A., 2012. Analisis morfometri menggunakan sistem informasi geografis untuk penentuan sub DAS prioritas (Studi kasus mitigasi bencana banjir bandang di DAS Garang Jawa Tengah) SemnasIF 2012. UPN Veteran Yogyakarta, 30 Juni 2012 Issn 1979-2328. [12 April 2018].
- Nur, A.M., 2009. Sungai Meander Luk Ulo Antara Kondisi Ideal dan Kenyataan. *Jurnal Geografi* 11 (2): 217-226.
- Oksana, I. M., Huda, M.U., 2012. Pengaruh alih fungsi lahan hutan menjadi perkebunan kelapa Sawit terhadap sifat kimia tanah. *Jurnal Agroteknologi* 3 (1): 2934.
- Paimin, Sukresno dan Pramono, I.B., 2009. Teknik Mitigasi Banjir dan Tanah Longsor. Tropenbos International Indonesia Programme. PO BOX 494, Balikpapan 76100 www.tropenbos.org
- Paimin, Sukresno, Purwanto, 2010. Sidik cepat degradasi Sub Daerah Aliran Sungai(DAS). Putlitbang Hutan dan Konservasi Alam. Bogor.

- Paimin, Pramono, I.B., Purwanto, Indrawati, D.R., 2012. Sistem Perencanaan Daerah Aliran Sungai. Menteri Kehutanan. Jakarta.
- Paroissien, J.B. , Darboux, F.E., Couturier, A., Devillers, B., Mouillot, F., Raclot, D., Bissonnais, Y.L., 2014. *A method for modeling the effects of climate and land use changes erosion and sustainability of soil in a mediterranean watershed Languedoc, France*. Journal of Environmental Management 150:57-68. <https://doi.org/10.1016/j.jenvman.2014.10.034>.
- Pemerintah Republik Undonesia, 1999. UU No.41 tahun 1999 Tentang Kehutanan. Pemerintah Republik Indonesia. Jakarta.
- Pemerintah Republik Undonesia.2014. UU No.37 tahun 2014 Tentang Konservasi Tanah dan Air. Pemerintah Republik Indonesia. Jakarta. Pemerintah Republik Indonesia. Jakarta.
- Pemerintah Republik Undonesia ,2019. UU No.17 tahun 2019 Tentang Sumber Daya Air.
- Pemerintah Republik Undonesia, 2012. PP No. 37 tahun 2012 Tentang Pengelolaan Daerah Aliran Sungai. Pemerintah Republik Indonesia Jakarta.
- Pemerintah Republik Undonesia, 2015. PP No. 104/2015 tentang Tata cara Perubahan Peruntukan dan Fungsi Kawasan Hutan. Pemerintah Republik Indonesia.
- Pemerintah Republik Undonesia, 2015. PP No. 38/2011 Tentang sungai. Pemerintah Republik Indonesia.
- Permenhut, 2009. Permenhut No. 328/Menhut-II/2009 Tentang Prioritas DAS Indonesia. Pemerintah Republik Indonesia. Jakarta.
- Permenhut, 2009. Permenhut No.39 tahun 2009 Tentang Rencana Pengelolaan DAS Terpadu. Pemerintah Republik Indonesia.Jakarta.
- Permenhut, 2014. Permenhut. No. 61/Menhut-II/2014 tentang Pedoman Monitoring dan Evaluasi DAS Indonesia. Pemerintah Republik Indonesia Jakarta.
- Permen PUPR, 2015. Permen PUPR RI No. 28/PRT/m/2015 Tentang Penetapan Garis Sempadan Sungai Dan Garis Sempadan Danau. Pemerintah Republik Indonesia Jakarta.
- Perry, C.A., (2000). Significant Floods in the United States During the 20th Century-USGS Measures a Century of Floods: USGS Fact Sheet 024-00. U.S. Geological Society, Lawrence, Kansas

- Prasetyo, L.B., 2013. *Land use, climate change and biodiversity modeling: perspectives and applications*. Jurnal Manajemen Hutan Tropika 19(3):211. <https://doi.org/10.7226/jffm.19.3.211>.
- Pratiwi & Salim, A.G., 2013. *Application of Silt Pit Soil Conservation System on Gmelina (Gmelina arborea Roxb.) Planting in Forest Area in Special Purposes Carita, Banten*. Jurnal penelitian hutan dan konservasi alam. Vol. 10 No. 3, Desember : 273-282.
- Purwati, E., Soewardi, K., Kusumantoro, T., Kartasasmita, M., Nurjaya, I.W., 2012. Dampak perubahan kawasan hutan menjadi areal industri batubara terhadap kualitas air di Sepanjang DAS Berau-Kalimantan Timur. Jurnal Penginderaan Jauh 8 (2):6070.
- Purba, D.O., 2018. Normalisasi dan Naturalisasi Sungai, Apa Bedanya? <http://www.nasional.republika.com>. Kamis, 14 Juli 2018, 18:38 WIB
- Pramono, I.B., Putra, PB., 2017. Tipologi Daerah Aliran Sungai Untuk Mitigasi Bencana Banjir Di Daerah Aliran Sungai Musi (*Watershed typology for flood mitigation in Musi Watershed*) Jurnal Penelitian Pengelolaan Daerah Aliran Sungai (*Journal of Watershed Management Research*) Vol. 1 No. 2 Oktober 2017 : 143-165 doi <http://dx.doi.org/10.20886/jppdas.2017.1.2.143-165> E-ISSN: 2579-5511/ P-ISSN: 2579-6097
- Raharjanto, K., 2002. Bencana alam banjir bandang bercampur sedimen di daerah Situbondo, Jawa Timur. Prosiding Seminar Nasional Pengelolaan DAS VII FAPERTA UNBRA. Malang.
- Rahmadi A., 2002. Air Sebagai Indikator Pembangunan Berkelanjutan (studi Kasus:Pendekatan Daerah aliran Sungai). Makalah pengantar sain Program Pascasarjana IPB. [http://tumulou.Net/7020412/andi rahmadi/9 August 08/09. Htm](http://tumulou.Net/7020412/andi%20rahmadi/9%20August%2008/09.Htm)
- Ran, J., Budic, Z.N., 2016. *Integrating spatial planning and flood risk management: A new conceptual framework for the spatially integrated policy infrastructure*. Computers, Environment and Urban Systems Journal 57:6879. <https://doi.org/10.1016/j.compenvurbsys.2016.01.08>
- Reed, M.S., Graves, C.M. Dandy, N., Posthumus, H. Hubacek, K. Morris, J., Prella, C. Quinn, C.H. & Stringer, L. C. 2009. Who's in and why? A typology of stakeholder analysis methods for natural resource management. *Journal of Environment Management*. Vol. 90 (5): 1943-1949.
- Restele, L.O., 2015. Konservasi tanah berbasis sosial ekonomi petani di DAS Garang. Disertasi Doktor Ilmu Geografi UGM. Yogyakarta.

- Rey, F., 2003. *The influence of vegetation distribution on sediment yield in forested marly gullies*. Catena 50, 549–562.
- Risi, R.D., Paola, F.D., Turpie, J., Kroeger, T., 2018. *Life Cycle Cost and Return on Investment as complementary decision variables for urban flood risk management in developing countries*. Int. J. Disaster Risk Reduct. 28 88–106 journal homepage www.elsevier.com/locate/ijdr
- Rotherham, I.D., 2016. *Issues of water and flooding for trees, woods and forests*. Arboricultural Journal. Vol. 37, No. 4, 200–223, <http://dx.doi.org/10.1080/03071375.2015.1137432>.
- Sandor, M. E., & Chazdon, R. L., 2014. Remnant Trees Affect Species Composition But Not Structure Of Tropical Second-Growth Forest. *Plos One*, 9(1), e83284.
- Sarief, E., 1990. *Konservasi Tanah dan Air*. Pustaka Buana. Bandung.
- Sarwono, J., 2006. *Metode Penelitian Kuantitatif dan Kualitatif*. Graha Ilmu. Yogyakarta.
- Satriawan, H., Fuady, Z., Agusni, 2017. *Soil conservation techniques in oil palm cultivation for sustainable agriculture*. Jurnal Pengelolaan Sumberdaya Alam dan Lingkungan Vol. 7 No. 2 Agustus: 178–183
- Savitri, E. dan Pramono, I.B., 2017. Analisis Banjir Cimanuk Hulu 2016 (*Upper Cimanuk flood analysis of 2016*) Jurnal Penelitian Pengelolaan Daerah Aliran Sungai (*Journal of Watershed Management Research*) Vol. 1 No. 2 Oktober 2017 : 97–110 <http://dx.doi.org/10.20886/jppdas.2017.1.2.143-165> E-ISSN: 2579-5511/ P-ISSN: 2579-6097
- Schum, S.A., 1956. *Evolution of drainage system and slopes in badlands at Perth Amboy*. Geological Society of America 67(5):597–646. [https://doi.org/10.1130/00167606\(1976\)67\[597;EODSAS\]2.0.CO;2](https://doi.org/10.1130/00167606(1976)67[597;EODSAS]2.0.CO;2).
- Scott, D.F., Prinsloo, F., 2008. *Longer-term effects of pine and eucalypt plantations on streamflow*. Water Resour Res 44(7):1–8
- Senawi, 2009. Arahana penggunaan lahan untuk pengendalian erosi tanah Sub DAS Wuryantoro DTA Waduk Gajah Mungkur, Wonogiri, Jawa Tengah. Jurnal Ilmu Kehutanan 3 (2): 95–107.
- Setiawan, M.A., 2012. Manajemen risiko erosi tanah terintegrasi hulu DAS Serayu. Kab. Wonosobo Jawa tengah. Disertasi Doktor ilmu Geografi UGM. Yogyakarta.
- Seyhan, E., 1990. *Dasar-dasar Hidrologi (terjemahan)*. Gadjah Mada University Press. Yogyakarta.

- Smith, B., Wilson, J.B., 1996. *A Consumer's Guide To Evenness Indices*, Oikos, 70-82
- Sofyan, 2017. Pengembangan Kebun Sawit RI Hadapi Masalah Lahan Hingga Pembiayaan. <https://www.researchgate.net/publication/265410137> [accessed Nov 09 2017].
- Soerianegara, I., Indrawan, A., 1982. Ekologi Hutan Indonesia. Departemen Manajemen Hutan, Fakultas Kehutanan IPB. Bogor.
- Soewarno, 1991. Hidrologi: Pengukuran dan Pengolahan Data Aliran Sungai (Hidrometri). Penerbit Nova. Bandung.
- Strahler, A.N., 1964. *Quantitative geomorphology of drainage basins and channel networks*. In: V.T. Chow (Ed.), *Handbook of Applied Hydrology*. McGraw-Hill, New York, pp.4.394.76.
- Suhandini, P., 2011. Banjir bandang di DAS Garang Jawa Tengah (penyebab dan implikasinya). Disertasi Doktor Ilmu Geografi UGM. Yogyakarta.
- Suprayogi, S., Purnama, L.S., Darmanto, D., 2013. Hidrologi dan Pengelolaan Daerah Aliran Sungai. Gadjah Mada University Press. Yogyakarta.
- Suryatmojo, H., 2015. *Rainfall-runoff Investigation of Pine Forest Plantation in the Upstream Area of Gajah Mungkur Reservoir*. www.sciencedirect.com. Procedia Environmental Sciences 28 (2015) 307-314.
- Sutopo, N., Seno, A, Hasmono, S., 2002. Pengaruh Penggunaan lahan terhadap Aliran Permukaan dan Unsur Hara. <http://www.iptek.net.id/ind>
- Talapesy, R., 2014. Tinjauan Sedimen Jenis Melayang Menggunakan Metode Integrasi Kedalaman Di Sungai Wailela Kota Ambon. Prosiding Seminar Nasional Basic Sience VI FMIPA UNPATI.
- Tapari, H., 2008. Teknologi Embung Di Atas Bukit, Sebagai Sentra Pemberdayaan Petani Hortikultura. Ungaran, Agustus 2015. Yayasan Obor Tani Semarang.www.setbak.or.id. Jateng Prov.go.id. 26-2-2017.
- Tokede, M.J., Mambai, B., Pangkali, L., Mardiyadi, Z., 2013. *Natural Standing Stock And Trade Analysis Of Merbau In Papua*. Seminar nasional Sistem Pengelolaan Hutan Lestari 2-3 Desember 2013. Dinas Kehutanan Propinsi Papua Barat. Manokwari.
- Triatmodjo, B., 2010. Hidrologi Terapan. Beta Offset. Yogyakarta.
- Vannier, O., Anguetin, S., Braud, I., 2016. *Investigating the role of geology in the hidrological response of Mediterranean cathment prone to flash floods: regional*

modeling study and proses understanding. Journal of Hydrology 541:158–172.
[www.elsevier. Com / locate / jhydro](http://www.elsevier.com/locate/jhydro).

Wagenbrenner, J.W., Robichaud, P.R. , Brown, R.E., 2016. *Rill erosion in burned and salvage logged western montane forests: Effects of logging equipment type, traffic level, and slash treatment*. Journal of Hydrology [journalhomepage: www.elsevier.com/locate/jhydro](http://journalhomepage:www.elsevier.com/locate/jhydro). Journal of Hydrology 541 (2016) 889–901

Wanggai, F., 2006. Pengaruh Hutan dan Pengelolaan DAS .Unipa Press. Manokwari

Whitfeld, T.J., Lasky, J.R., Damas, K., Sosanika, G., Molem, K., and Montgomery, R.A., 2014. *Species Richness, Forest Structure, and Functional Diversity during Succession in the New Guinea Lowlands*. Biotropica, 46(5):538-548.

Widiarto, L.A., Kingma, N.2014. Agricultural Loss Caused by 2007 Sidoharjo's Flood and its Household Impact. Indonesian Journal of Geografy Vol. 46, No.2, December (156 - 166)

Widiyanto, A dan Hani, A.2018. Pola Dan Evaluasi Penggunaan Lahan Di Sempadan Sungai Cinangka, Sub Daerah Aliran Sungai Cimanuk Hulu (*Pattern and evaluation of land use in Cinangka Buffer Zone, Upper Cimanuk Sub Watershed*) doi Jurnal Penelitian Pengelolaan Daerah Aliran Sungai (*Journal of Watershed Management Research*)ol. 2 No. 1, April 2018 : 61-72 <https://doi.org/10.20886/jppdas.2018.2.1.61-72> E-ISSN: 2579-5511/ P-ISSN: 2579-6097

Wirosoedarmo, R., Haji, A.T.S., Pramesti, E.M., 2010. *Study on form, drainage network, and watershed hydrograph by Using SIMODAS (Case study on Sabu Island - Nusa Tenggara Timur)* Jurnal Teknologi Pertanian 11(2):123–130.

Worman, A., Lindstrom, G., Riml, J., 2017. *The power of runoff*. Journal of Hydrology 548:784-793. <https://doi.org/10.1016/j.jhydrol.2017.03.041>.

Yuniartanti, R.K. 2018. Mitigasi Banjir Struktural Dan Non-Struktural Untuk Daerah Aliran Sungai Rontu Di Kota Bima (*Structural and non-structural flood mitigation for Rontu Watershed in Bima City*) Jurnal Penelitian Pengelolaan Daerah Aliran Sungai (*Journal of Watershed Management Research*) Vol. 2 No. 2, Oktober 2018 : 137-150 <https://doi.org/10.20886/jppdas.2018.2.1.61-72>E-ISSN:2579-5511/P-ISSN:2579-6097

Zare, N., Talebbeydokhti, N., 2018. *Policies and governance impact maps of floods on metropolitan Shiraz (the first step toward resilience modeling of the city)*.

International Journal of Disaster Risk Reduction 28 298–317 homepage
www.elsevier.com/locate/ijdr

- Zhang, X., Yu, G., Li, Z., Li, P., 2014. *Experimental study on slope runoff, erosion and sediment under different vegetation types*. Water Resour Manag 28:2415–2433.
- Zhang, F.B., Bai, Y.J., Xie, L.Y., Yang, M.Y., Li, Z.B., Wu, X.R., 2017. *Runoff and soil loss characteristics on loess slopes covered with aeolian sand layers of different thicknesses under simulated rainfall*. Journal of Hydrology 549:244–251. <https://doi.org/10.1016/j.jhydrol.2017.04.002> 0022-1694/ 20.
- Zokaib, S., Naser, G.H., 2011. *Impacts of land uses on runoff and soil erosion A case study in Hilkot watershed Pakistan*. Int J Sediment Res 26:343–352