

DAFTAR PUSTAKA

- Abou-Elela, S. I., Golinielli, G., Abou-Taleb, E. M., & Hellal, M.S., 2013. Municipal wastewater treatment in horizontal and vertical flows constructed wetlands, *Ecological Engineering*, 61, 460–468, DOI: 10.1016/j.ecoleng.2013.10.010.
- Akcil A and Koldas S, 2006, Acid Mine Drainage (AMD): causes, treatment and case studies, *Journal of Cleaner Production* 14 (2006) 1139-1145, DOI:10.1016/j.jclepro.2004.09.006.
- Amin, R., Edraki, M., Mulligan, D.R., Gultom, T.H., 2015, Chromium and nickel accumulation in the macrophytes of the Kawasi wetland on Obi Island, North Maluku Province, Indonesia, *Australian Journal of Botany Communication*, DOI://dx.DOI.org/10.1071/BT15066.
- Alcolea A., Vázquez M., Caparrós A., Ibarra. I, García C., Linares R., Rodríguez R., 2012, Heavy metal removal of intermittent acid mine drainage with an open limestone channel, *Minerals Engineering* 26 (2012) 86–98, DOI:10.1016/j.mineng.2011.11.006.
- Amin, R., 2016, The response of tropical wetlands to the geochemical conditions of discharge water from nickel laterite mines, Thesis of the Doctor of Philosophy, The University of Queensland.
- Arif, Sardjono Hermono, 2012, Fitoremediasi Pasir Sisa Tambang (Tailing) Dengan Tanaman Gelagah (*Phragmites karka*), Master tesis, Program Magister Ilmu Lingkungan, UNDIP, <http://eprints.undip.ac.id/35427/>.
- Banks, D., Younger, P.L., Arnesen, R.-T., Iversen, E.R., Banks, S.D., 1997. Mine-water chemistry: the good, the bad and the ugly. *Environ. Geol.* 32, 157–174, DOI: 10.1007/s002540050204.
- Bargawa, W.S., Suchahyo, A.P.A., Andiani, H.F., 2019, Design of coal mine drainage system, *E3S Web Conf*, Vol 76, DOI:10.1051/e3sconf/20197604006.
- Barrie, J.D, and Hallberg, K.B, 2005, Acid mine drainage remediation options: a review, *Sci Total Environ* 338:3–14, DOI:10.1016/j.scitotenv.2004.09.002.
- Baroroh, F., Handayanto, E., Irawanto R., 2018, Phytoremediation of Copper (Cu) Contaminated Water Using *Salvinia molesta* and *Pistia stratiotes* and Its Effect on Growth of *Brassica rapa*, *Jurnal Tanah dan Sumberdaya Lahan* Vol 5 No 1 : 689-700, 2018 e-ISSN:2549-9793.

- Batty, L.C., and Younger, P.L., 2002, Critical Role of Macrophytes in Achieving Low Iron Concentrations in Mine Water Treatment Wetlands, *Environ. Sci. Technol.* 2002, 36, 3997-4002, DOI:10.1021/es020033.
- Batty, L.C., Younger, P.L., 2004, Growth of *Phragmites australis* (Cav) Trin ex. Steudel in mine water treatment wetlands: effects of metal and nutrient uptake. *Environ. Pollut.*, 132, 85–93, DOI: 10.1016/j.envpol.2004.03.022.
- Batty, L.C., and Younger, P.L., 2007, the effect of pH on plant litter decomposition and metal cycling in wetland mesocosms supplied with mine drainage, *Chemosphere* 66, 158–164, DOI: 10.1016/j.chemosphere.2006.05.039.
- Batty, L.C., Daniel, H., Younger, P., 2008, Iron and manganese removal in wetland treatment systems: Rates, processes and implications for management, *Science of the Environment* 394 1–8, DOI:10.1016/j.scitotenv.2008.01.002.
- Berghorn, G.H., and Hunzeker, G.R., 2001, Passive treatment alternatives for remediation abandoned-mine drainage. p. 111–127, John Wiley & Sons, New York, DOI://DOI.org/10.1002/rem.1007.
- Blowes, D.W., Ptacek, C.J., Jambor, J.L., and Weisener, C.G., 2003, The geochemistry of acid mine drainage. p. 149–204. In B. Sherwood Lollar (ed.) *Treatise on geochemistry*. Vol. 9. Environmental geochemistry, DOI:10.1016/B0-08-043751-6/09137-4.
- Boros, G., Søndergaard, M., Takacs, P., Va'ri, A., Tatrai, I., 2011, Influence of submerged macrophytes, temperature, and nutrient loading on the development of redox potential around the sediment–water interface in lakes, *Hydrobiologia* 665:117–127, DOI:10.1007/s10750-011-0609-4.
- Brix, H., 1994, Functions of macrophytes in construction wetlands, *Water Science and Technology*, Vol No. 29, No.4, pp71-78.
- Brix, H., 1997, Do macrophytes play a role in constructed treatment wetlands? *Water Science and Technology* 35(5): 11–17, PII:S0273-1223(97)00047-4.
- Brown, M., Barley, B., and Wood, H., 2002, Mine water treatment. p. 1–31. In M. Brown, B. Barley, and H.Wood (ed.) *The mine water problem*. IWA Pub. Alliance House, London
- Buxton Gavin A., 2017, Modeling the Effects of Vegetation on Fluid Flow Through an Acid Mine Drainage Passive Remediation System, *Journal of the Ecological Engineering*, 110:27–37, DOI:10.1016/j.ecoleng.2017.09.014.
- Bwapwa J. K., 2017, A Review of Acid Mine Drainage in a Water-Scarce Country: Case of South Africa, *Environmental Management and Sustainable Development*, Macrothink Institute, ISSN 2164-7682.

- Calheiros, C.S.C., Rangel, A.O.S, Castro, P.M.L., 2008, Evaluation of different substrates to support the growth of *Typha latifolia* in constructed wetlands treating tannery wastewater over long-term operation. *Bioresource Technology*, 99(15), 6866–6877, DOI: 10.1016/j.biortech.2008.01.043.
- Cheng S., Grosse W., Karrenbrock F., Thoennesen M., 2002, Efficiency of constructed wetlands in decontamination of water polluted by heavy metals, *Ecological Engineering* 18 (2002) 317–325, PII: S0925-8574(01)00091-X.
- Chen Hongjun, 2011, Surface-flow constructed treatment wetlands for pollutant removal: Applications and perspectives, *Society of Wetland Scientists*, DOI:10.1007/s13157-011-0186-3.
- Clyde E.J, Champagne P, Jamieson H.E, Caitlin Gorman C, Sourial J., 2016, The use of a Passive Treatment System for the Mitigation of Acid Mine Drainage at the Williams Brothers Mine (California): Pilot-Scale Study, *Journal of Cleaner Production*, DOI: 10.1016/j.jclepro.2016.03.145.
- Clode, C., Proffet, J., Mitchell, P., and Munajat, I., 1999, Relationships of intrusion, wall-rock alteration and mineralization in the Batu Hijau copper-gold porphyry deposit, Pacrim Congress, Bali, Indonesia, *Australasians Institute of Mining and Metallurgy Publication Series 4/99, Proceedings*, p.485-498.
- Coulton, R., Bullen, C., Hallet, C., 2003, the Design and optimization of active mine water treatment plants, *Land Contam Reclam* 11:273–279, DOI:10.2462/09670513.825.
- Cravotta, C. A., 2008, Dissolved metals and associated constituents in abandoned coal-mine discharges, Pennsylvania, USA. Part 2: Geochemical controls on constituent concentrations. *Applied Geochemistry*, 23(2), 203–226. doi:10.1016/j.apgeochem.2007.10.003
- Deng, Y.H., Ye, Z.H., Wong, M.H., 2004, Accumulation of lead, zinc, copper and cadmium by 12 wetland plant species thriving in metal-contaminated sites in China, *Environmental Pollution* 132, 29-40, DOI:10.1016/j.envpol.2004.03.030.
- Dunbabin, J. S., Pokorny, J. and Bowmer, K. H., 1988, Rhizosphere oxygenation by *Typha domingensis* in miniature artificial wetland filters used for metal removal from wastewaters, *Aquat. Bot.* 29, 303–317, DOI: 10.1016/0304-3770(88)90075-7.
- Dhir Bhupinder, 2018, *Biotechnological Tools for Remediation of Acid Mine Drainage (Removal of Metals From Wastewater and Leachate)*, *Biogeotechnologies for Mine Site Rehabilitation Journal*, p. 67 – 81, DOI: 10.1016/B978-0-12-812986-9.00004-X.
- Djalilah, S.R., Sumarah, C.B, 2008, Sistem Pengelolaan Air Tambang pada Lingkungan Tambang Batu Hijau, *Seminar Air Asam Tambang & Reklamasi Lahan Bekas Tambang Indonesia*, Bandung.

- Dzikus A., Singh K., Shresta R.R., 2008, *Constructed Wetlands Manual*, UN-HABITAT Water for Asian Cities Programme, p.18-21.
- Erin J., Pascale C., Heather E. J., Caitlin G., Sourial J., 2016, *The use of a Passive Treatment System for the Mitigation of Acid Mine Drainage at the Williams Brothers Mine (California)*, DOI: 10.1016/j.jclepro.2016.03.145.
- Favas P, J, C., Martino, L, E., Prasad, M, J, V., 2018, *Abandoned mine land reclamation – Challenges and opportunities (holistic approach)*, *Bio-Geotechnologies for Mine Site Rehabilitation*, DOI:10.1016/B978-0-12-812986-9.00001-4.
- Fuad, M.T., Aunurohim, Nurhidayati, T., 2013, *Efektivitas Kombinasi Salvinia molesta dengan Hydrilla verticillata dalam Remediasi Logam Cu pada Limbah Elektroplating*, LPPM-ITS, DOI: 10.12962/j23373520.v2i2.4303.
- Gambrell, R. P., Wiesepape, J. B., Patrick, W. H., Jr., and Duff, M. C., 1991, *The effects of pH, redox, and salinity on metal release from a contaminated sediment*. *Wat. Air Soil Pollut.*, 58, 359–367.
- Garwin, S., 2000, *The setting, geometry and timing of intrusion-related hydrothermal system in the vicinity of the Batu Hijau porphyry copper-gold deposit, Sumbawa, Indonesia*, University of Western Australia, Nedlands, p. 141, 216.
- Garwin, S., 2002, *The Geologic Setting of Intrusion-Related Hydrothermal Systems near the Batu Hijau Porphyry Copper-Gold Deposits, Sumbawa, Indonesia*, Society of Economic Geologist, Special Publication 9, p.333-366.
- Goulet, R.R., and Pick, F.R., 2000, *The effects of Cattail (Typha latifolia L.) on concentrations and partitioning of metals in surficial sediments of surface-flow constructed wetlands*, *Water, Air, and Soil Pollution* 132: 275–291, DOI:10.1023/A:1013246614159.
- Guo, L., & Cutright, T. J., 2014, *Remediation of acid mine drainage (AMD)-contaminated soil by Phragmites australis and rhizosphere bacteria*. *Environmental Science and Pollution Research*, 21(12), 7350–7360. DOI:10.1007/s11356-014-2642-0
- Gusek, J.J., 2009, *A Periodic Table of passive treatment for mining influenced water*. *Reclamation Matters*, Spring 2009:22–27, DOI:10/21000/JASMR09010550.
- Hallberg, K.B., Johnson, D.B., 2005, *Microbiology of a wetland ecosystem constructed to remediate mine drainage from a heavy metal mine*, *Sci Total Environ* 338:53–66, DOI: 10.1016/j.scitotenv.2004.09.005.
- Hawkins, W.B., Rodgers, J.H., Gillespie, W.B., Dun, A.W., Dorn, P.B., Cano, M.L., 1997, *Design and Construction of Wetlands for Aqueous Transfers and Transformations of Selected Metals*, *Ecotoxicology and Environmental Safety* 36, 238–248.

- Henny, C., Ajie, G.S., Susanti, E., 2010, Pengolahan Air Asam Tambang Menggunakan Sistem “Passive Treatment”, Prosiding Seminar Nasional Limnologi V, Pusat Penelitian Limnologi-LIPI.
- Idrus A., Kolb J., Meyer F.M., 2007, Chemical Composition of Rock-Forming Minerals in Copper – Gold-Bearing Tonalite Porphyries at the Batu Hijau Deposit, Sumbawa Island, Indonesia: Implications for Crystallization Conditions and Fluorine – Chlorine Fugacity, *Economic Geology, Resource Geology* Vol. 57, No. 2: 102 – 113, DOI: 10.1111/j.1751-3928.2007.00010.x
- Idrus A., Kolb J., Meyer F.M., Arif J., Setyandhaka D., Kepli S., 2009, A Preliminary Study on Skarn-Related Calc-silicate Rocks Associated with the Batu Hijau Porphyry Copper-Gold Deposit, Sumbawa Island, Indonesia, *The Resource Geology*, Vol.59, No.3:295-306, DOI:10.1111/j.1751-3928.2009.00097.x.
- Imai, A., and Ohno, S., 2005, Primary Ore Mineral Assemblage and Fluid Inclusion Study of the Batu Hijau Porphyry Cu-Au Deposit, Sumbawa, Indonesia, *RESOURCE GEOLOGY*, vol. 55, no. 3, 239–248, DOI: 10.1111/j.1751-3928.2005.tb00245.x.
- Jarvis, A.P., Moustafa, M., Orme, P.H.A., Younger, P.L., 2006, Effective remediation of grossly polluted acidic, and metal-rich, spoil heap drainage using a novel, low-cost, permeable reactive barrier in Northumberland, UK, *Environmental Pollution* 143, 261-268, DOI:10.1016/j.envpol.2005.11.028.
- Johnson, D.B, dan Hallberg, K.B., 2005, Acid Mine Drainage Remediation options: a review, *Journal Science of the Total Environment*, 338 p.3-14, DOI:10.1016/j.scitotenv.2004.09.002.
- Kalin, M., 2004. Passive mine water treatment: the correct approach? *Ecol. Eng.* 22, 299-304, DOI:10.1016/j.ecoleng.2004.06.008.
- Kadlec R.H., Knight R.L., Vymazal J., Brix H., 2000, *Constructed Wetlands for Pollution Control: Processes, Performance, Design and Operation*, IWA specialist group on use of macrophytes in water pollution control, Scientific and Technical Report, No. 8, IWA Publishing, London.
- Kesler, S.E., Chryssoulis, S.L., Simon, G., 2002, Gold in porphyry copper deposits: its abundance and fate, *Ore Geology Reviews* 21(2002)103-124, PII:S0169-1368(02)00084-7.
- Khan, S., Ahmad, I., Shah, M.T., Rehman, S., Khaliq, A., 2009, Use of constructed wetland for the removal of heavy metals from industrial wastewater, *Journal of Environmental Management* 90, 3451–3457, DOI:10.1016/j.jenvman.2009.05.026.
- Kissinger, Pitri, R, M., 2018, Ketahanan Hidup Beberapa Jenis Tumbuhan di Kawasan Void Bekas Tambang Batubara., *EnviroScienteeae* Vol. 14 No. 1, April 2018, DOI:dx.DOI.org/10.20527/es.v14i1.4893.

- Kite, G.W., 2012, Hydrologic Risk Frequency and Risk Analyses in Hydrology, Water Colorado Resources, ISBN 13: 978-1-887201-64.
- Kivaisi A, K., 2001, The potential for constructed wetlands for wastewater treatment and reuse in developing countries: a review, *Ecological Engineering* 16 (2001) 545–560, PII: S0925-8574(00)00113-0.
- Kusuma G.J., Shimada H., Sasaoka, T., Matsui K., Nugraha C., Gautama R.S., Sulistianto B., 2012, Physical and Geochemical Characteristics of Coal Mine Overburden Dump Related to Acid Mine Drainage Generation, *Memoirs of the Faculty of Engineering, Kyushu University*, Vol.72, No. 2.
- LAPI-ITB, 2010, Review Laporan Tentang Konsentrasi Arsenik terlarut dalam Air Tanah Bagian Hilir Daerah Timbunan Batuan Penutup (*waste rock dump*) di PT NNT, Indonesia.
- Lee C.G., Fletcher T.D., Sun G., 2009, Nitrogen removal in constructed wetland systems, *Eng. Life Sci.* 9, No. 1, 11–22, DOI:10.1002/elsc.200800049.
- Lottermoser, B.G., 2010, Mine Waste - Characterization Treatment and Environmental Impacts, 3rd edition, p.123- 127, DOI:10.1007/978-3-642-12419-8.
- Luca, G.A, Mainea, M.A., Mufarregea, M.M., Hadada, H.R. , G.C. Sáncheza, C.A. Bonetto, 2011, Metal retention and distribution in the sediment of a constructed wetland for industrial wastewater treatment, *Ecological Engineering* 37 (2011) 1267– 1275, DOI:10.1016/j.ecoleng.2011.03.003.
- Machemer, S.D., dan Wilderman, T.R., 1992, Adsorption compared with sulfide precipitation as metal removal processes from acid mine drainage in a constructed wetland, *Journal of Contaminant Hydrology* 115-131, DOI: 10.1016/0169-7722(92)90054-I.
- Macías F, Caraballo M.A, Nieto J.M, Rötting T.S, Ayora C, 2011, Natural pretreatment and passive remediation of highly polluted acid mine drainage, *Journal of Env. Management*, DOI:10.1016/j.jenvman.2012.03.027.
- Mays, P.A., dan Edwards, G.S., 2001, Comparison of heavy metal accumulation in a natural wetland and constructed wetlands receiving acid mine drainage, *Ecological Engineering*, 16, 487-500, PII: S0925-8574(00)00112-9.
- Mayes, W.M., Batty,L.C., Younger, P.L., Jarvis A.P., Koiv M., Vohla C., Mander U.,2008, Wetland Treatment at Extremes of pH: A review, *Science of the Environment Journal* 407, p.3944-3947, DOI: 10.1016/j.scitotenv.2008.06.045.
- McGuire, G., 2003, Managing Mine Closure Risks in Developing Communities - A Case Study, Kelian Equatorial Mining, Indonesia, Mining Risk Management Conference, Sydney, NSW.

- McCullough, C.D., 2008, Approaches to remediation of acid mine drainage water in pit lakes, *International Journal of Mining, Reclamation and Environment*, Vol. 22, No. 2, 105 – 119, DOI: 10.1080/17480930701350127.
- Mitsch, W.J., and Wise, K.M., 1998, Water quality, fate of metals and predictive model validation of constructed wetland treating acid mine drainage, *Wat. Res.* Vol. 32, No. 6, pp. 1888±1900, PII: S0043-1354(97)00401-6.
- Mooney F.D. and Gulde C.M., 2008, Constructed treatment wetlands for flue gas desulfurization waters: Full-scale design, construction issues, and performance, *Environmental Geosciences*, v. 15, no. 3 (September 2008), pp. 131–141, DOI: 10.1306/eg.09200707011.
- Morin, K.A., and Hunt, N.M., 1997, *Environmental Geochemistry of Minesite Drainage: Practical Theory and Case Studies*, p.112-114, ISBN 0-9682039-0-6.
- Narhi, P., Raisanen, L.M., Sutinen, M.L., Sutinen,R., 2012., Effect of tailings on wetland vegetation in Rautuvaara, a Former Iron–Copper Mining Area in Northern Finland, *Journal of Geochemical Exploration* 116-117, p.60-65, DOI: 10.1016/j.gexplo.2012.03.005.
- Neculita, C.M., Zagury, G.J., Bussiere, B., 2007, Passive Treatment of Acid Mine Drainage in Bioreactors using Sulfate-Reducing Bacteria: Critical Review and Research Needs, *J. Environ. Qual.* 36:1–16, DOI:10.2134/jeq2006.0066.
- Nixdorf, B., Uhlmann, W., Lessmann, D., 2010, Potential for remediation of acidic mining lakes evaluated by hydrogeochemical modelling: Case study Grunewalder Lauch (Plessa 117, Lusatia/Germany), *Limnologica* 40, 167–174, DOI:10.1016/j.limno.2009.12.005.
- Nyquist, Y., and Maria, G., 2009, a Field study of constructed wetlands for preventing and treating acid mine drainage, *Ecological Engineering* 35, 630–642, DOI: 10.1016/j.ecoleng.2008.10.018.
- Oyewo, O.A, Agboola, O., Onyango, M.S., Popoola, P., Bobape, M.F., 2018, Current Methods for the Remediations of Acid Mine Drainage Including Continous Removal of Metals from Wastewater and Mine Dump, *Journal Bio-Geotechnologies for Mine Site Rehabilitation*, chapter 6, p.103-114, DOI:10.1016/B978-0-12-812986-9.00006-3.
- Prihatini, N.P., dan Sadiqul I, M., 2015, Pengolahan Air Asam Tambang Menggunakan Sistem Lahan Basah Buatan: Penyisihan Mangan (Mn)., *Jukung Jurnal Teknik Lingkungan*, 1(1):16-21.
- Patel, P.A., dan Dharaiya, N.A., 2013, Manmade wetland for waste water treatment with special emphasis on design criteria, *Sci. Revs. Chem. Commun.:* 3(3), 150-160, ISSN 2277-2669.
- Prudêncio, M.I., Valente, T., Marques, R., Sequeira Braga, M.A., J. Pamplona, J., 2017, Rare earth elements, iron and manganese in ochre-precipitates and

wetland soils of a passive treatment system for acid mine drainage, *Procedia Earth and Planetary Science* 17, 932 – 935, DOI:10.1016/j.proeps.2017.01.024.

PT NNT, 2011a, Deep Sea Tailing Placement Report (DSTP), Laporan Penempatan Tailing di Dasar Laut Dalam, PT Newmont Nusa Tenggara.

PT NNT, 2011b, Rencana Penutupan Tambang, PT Newmont Nusa Tenggara.

PT NNT, 2013, Comprehensive Hydrogeology Study Batu Hijau, Kabupaten Sumbawa Barat, Technical Report, Provinsi Nusa Tenggara Barat, PT Newmont Nusa Tenggara.

PTNNT, 2014, Assessment of In-Pit Tailings and Surface Water Management at Closure, Schlumberger Water Services and PT Lorax Indonesia (SWS and Lorax Indonesia) PT Newmont Nusa Tenggara – Batu Hijau Project, Technical Report.

PT NNT, 2015, Kegiatan Perubahan Penambangan Pada Pertambangan Tembaga-Emas Batu Hijau, Adendum Andal dan RKL-RPL, PT Newmont Nusa Tenggara.

Qadafi, M., Bargawa, W.S., Ali, M., Rohmadi, N.A.T., 2019, Fitoremediasi tanaman vertiver terhadap logam berat Cu dan Zn terlarut di lubang bekas tambang Gosowong cut back PT Nusa Halmahera Minerals Provinsi Maluku Utara, *Jurnal Teknologi Pertambangan*, Vol.4 No.2 Periode Sept. 2108-Feb 2019, ISSN 2442-4234.

Qasaimah, A., AlSharie, H., Masoud, T., 2015, A Review on Constructed Wetlands Components and Heavy Metal Removal from Wastewater. *Journal of Environmental Protection*, 6(7), 710.

Rana, V., and Maiti, S.K., 2018, Municipal wastewater treatment potential and metal accumulation strategies of *Colocasia esculenta* (L.) Schott and *Typha latifolia* L. in a constructed wetland, *Environ Monit Assess* (2018) 190:328, DOI: 10.1007/s10661-018-6705-4. DOI: 10.1144/gsjgs.152.1.0065.

Rollinson, H., and Blenkinsop, T., 1995, The magmatic, metamorphic and tectonic evolution of the Northern Marginal Zone of the Limpopo Belt in Zimbabwe.

Rose A., and Cravotta, C., 1998, *Geochemistry of coal mine drainage*. Harrisburg, PA: Pennsylvania Department of Environmental Protection.

Sangita, G., Udayabhanu, Prasad, B., 2010, Studies on environmental impact of acid mine drainage generation and its treatment: An appraisal, *Indian Journal of Environmental Protection*, <https://www.researchgate.net/publication/277065948>.

Sheoran A, S., dan Sheoran, V., 2006, Heavy Metal Removal Mechanism of Acid Mine Drainage in Wetlands: A critical Review, *Journal Minerals Engineering* 19, 105–116, DOI:10.1016/j.mineng.2005.08.006.

- Skousen, J. 2001, Overview of passive systems for treating acid mine drainage, West Virginia University Extension Service.
- Skousen, J., Zipper, C. E., Rose, A., Ziemkiewicz, P. F., Nairn, R., McDonald, L. M., & Kleinmann, R. L. 2016., Review of Passive Systems for Acid Mine Drainage Treatment. *Mine Water and the Environment*, 36(1), 133–153. doi:10.1007/s10230-016-0417-1.
- Soni A.K, Wolkersdorfer C., 2015, Mine Water: Policy Perspective for Improving Water Management in the Mining Environment with Respect to Developing Economies, *International Journal of Mining, Reclamation and Environment*, DOI: 10.1080/17480930.2015.1011372.
- Suprpto S. J., 2006, Pemanfaatan dan Permasalahan Endapan Mineral Sulfida Pada Kegiatan Pertambangan, *Buletin Sumber Daya Geologi, Kementerian Energi dan Sumber Daya Mineral*, Vol.1, No.2.
- Sucahyo, A.P.A., Bargawa, W.S., 2018a, Utilization plan of underground river in the dry area, *Journal of Enviromental Science and Engineering B7* 2018 11-17, DOI:10.17265/2162-5263/2018.01.002.
- Sucahyo, A.P.A., Bargawa, W.S., Nurcholis, M., Cahyadi, T.D., 2018b, Penerapan *wetland* untuk pengelolaan air asam tambang, *Journal Technology of Civil, Electrical, Mechanical, Geology, Mining and Urban Design, Kurvatek*, DOI: 10.33579/krvtk.v3i2.860.
- Suripin, 2004, *Sistem Drainase Perkotaan yang Berkelanjutan*, Penerbit Andi Offset, Yogyakarta.
- Tarutis, W.J., Stark, L.R., Williams, M.F., 1999, Sizing and performance estimation of coal mine drainage wetlands, *Ecological Engineering* 12 (1999) 353–372, PII: S0925-8574(98)00114-1.
- Tang, S., 1993, Experimental study of a constructed wetland for treatment of acidic wastewater from an iron mine in China. *Ecological Engineering*, 2(3), 253–259. DOI:10.1016/0925-8574(93)90018-b.
- Taylor, G.J., and Crowder, A.A., 1983, Uptake and accumulation of copper, nickel, and iron by *Typha latifolia* grown in solution culture, *Canadian Journal of Botany*, 1983, 61(7): 1825-1830, DOI: 10.1139/b83-193.
- Taylor, G.J., Crowder, A.A, Rodden, R., 1984, Formation and morphology of iron plaque on the roots of *Typha latifolia* L. grown in solution culture, *Amer. J. Bot.* 71(5): 666-675, DOI:10.1002/j.1537-2197.1984.tb14173.x.
- Taylor, G.J., Pape, S., and Murphy, N., 2005, A Summary of Passive and Active Treatment Technologies for Acid and Metalliferous Drainage (AMD), *Australian Centre for Minerals Extension and Research (ACMER)*, p. 25 – 33.

- Tooth, S., 2017, The Geomorphology of Wetlands in Drylands: Resilience, Nonresilience, or...?, *Journal of Geomorphology*, Department of Geography and Earth Sciences, Aberystwyth University, p.33-48, DOI: 10.1016/j.geomorph.2017.10.017.
- Tsukamoto T-K, Miller G-C, 1999, Methanol as a carbon source for microbiological treatment of acid mine drainage, *Water Res* 33:1365–1370, DOI:10.1016/S0043-1354(98)00342-X
- Vymazal, J., 2002, The use of sub-surface constructed wetlands for wastewater treatment in the Czech Republic: 10 years experience, *Ecological Engineering* 18 (2002) 633–646, DOI:10.1016/S0925-8574(02)00025-3.
- Vymazal, J., 2005, Horizontal sub-surface flow and hybrid constructed wetlands systems for wastewater treatment, *Ecological Engineering* 25 (2005) 478–490, DOI:10.1016/j.ecoleng.2005.07.010.
- Vymazal, J., 2011, Plants used in constructed wetlands with horizontal subsurface flow: a review, DOI: 10.1007/s10750-011-0738-9.
- Wang, T., and Peverly, J.H., 1999, Iron oxidation states on root surfaces of a wetland plant, *Soil Sci. Soc. Am. J.* 63:247-252.
- Whitehead P.G, and Prior H, 2005, Bioremediation of acid mine drainage: an introduction to the Wheal Jane wetlands project, *Science of the Total Environment* 338 (2005) 15– 21, DOI:10.1016/j.scitotenv.2004.09.016.
- Wu H, Zhang J, Ngo H.H, Guo W, Hub Z, Liang S, Fan J, Liu H, 2014, a Review on the sustainability of constructed wetlands for wastewater treatment: Design and operation, *Bioresource Technology*, DOI:10.1016/j.biortech.2014.10.068.
- Yadav, A. K., Abbassi, R., Kumar, N., Satya, S., Sreekrishnan, T. R., & Mishra, B. K., 2012, The removal of heavy metals in wetland microcosms: effects of bed depth, plant species, and metal mobility. *Chemical Engineering Journal*, 211, 501–507, DOI: 10.1016/j.cej.2012.09.039.
- Ye, Z.H., Cheung, K.C., and Wong, M.H., 2001a, Copper uptake in *Typha latifolia* as affected by iron and manganese plaque on the root surface, *NRC Research*, DOI: 0.1139/cjb-79-3-314.
- Ye, Z.H., Whiting, S. N., Lin, Z. Q., Lytle, C. M., Qian, J. H., Terry, N., 2001b, Removal and Distribution of Iron, Manganese, Cobalt, and Nickel within a Pennsylvania Constructed Wetland Treating Coal Combustion By-Product Leachate, *Journal of Environmental Quality*, p.1464-1473, DOI:10.2134/jeq2001.3041464x.
- Younger, P.L., Banwart, S.A., Hedin, R.S., 2002, *Mine water; hydrology, pollution, remediation*. Kluwer Academic Publishers, Dordrecht, DOI: 10.1007/978-94-010-0610-1_3.

Younger, P.L, Jayaweera, A., Elliot Aln, Wood, R., Amos, P., Daugherty, A.J., Martin, A., Bowden, L., Andy, C., Aplin,, Johnson, D.B., 2003, Passive treatment of acidic mine waters in subsurface-flow systems: exploring RAPS and permeable reactive barriers, *Land Contamination & Reclamation*, 11 (2), 2003, DOI:10.2462/09670513.806.

Ziemkiewicz P.F, Skousen J.G, and Simmons J., 2003, Long-term performance of passive acid mine drainage treatment systems, *Mine Water and the Environment* (2003) 22:118-129, DOI:10.1007/s10230-003-0012-0.

Zurita, F., deAnda, J., Belmont, M.A., 2006, Performance of Laboratory-Scale Wetland Planted with Tropical Ornament Plants to Treat Domestic Wastewater, *Water Qual. Res. Journal, Canada*, Volume 41, No.4, p.410-417, DOI: 10.2166/wqrj.2006.044.