

DAFTAR PUSTAKA

- Adinugroho, W. C., IN. N. N. Suryadiputra, B. H. Saharjo dan L. Siboro. 2005. Panduan Pengendalian Kebakaran Hutan dan Lahan Gambut. Proyek Climate Change, Forest dan Peatlands in Indonesia. Bogor: *Wetland International –Indonesia Programme and Wildfire Habitat Canada*.
- Al-Salem S. M. 2008. An Overview of PM₁₀ Pollution Problem in Fahaheel Urban Area, Kuwait. *Emirates J Eng Res*, 13: 1–9.
- Alnawaiseh N. A., Hashim J. H., and Md Isa Z. 2015. Relationship Between Vehicle Count and Particulate Air Pollution in Amman, Jordan. *Asia Pac J Public Health*, 27(2): NP1742–51.
- Anwar A., Juneng L., Othman M.R., and Latif M.T. 2010. Correlation Between Hotspots and Air Quality in Pekanbaru, Riau, Indonesia in 2006-2007. *Sains Malaysiana* 39: 169-174.
- ASMC [Asean Specialised for Meteorological Centre]. 2002. Fire Monitoring and Detection by Remote Sensing. <http://intranet.mssinet.gov.sg/asmc.html>. [17 Desember 2008].
- Bailey, K. & Curran, K. Steganography The Art Of Hiding Information, *Book Surge* 2004 : 4-10
- Barladeanu, R., Stefan, S., Radulescu, R. 2012. Correlation Between The Particulate Matter (PM₁₀) Mass Concentrations and Aerosol Optical Depth in Bucharest, Romania. *Romanian Reports in Physics* 64, 1085–1096.
- Brauer, M. and Hisham-Hashim J. 1998. Fires In Indonesia: Crisis And Reaction. *Environmental Science and Technology* 1: 404A-407A.
- Bray, C. D., Battye, W., Uttamang, P., Pillai, P., Aneja, V. P. 2017. Characterization of Particulate Matter (PM_{2.5} and PM₁₀) Relating to a Coal Power Plant in The Boroughs of Springdale and Cheswick, PA. *Atmosphere*, 8: 186.
- Brown A, Davis K. 1973. *Forest Fire Control and Use*. Toronto: McGraw Hill.Inc.
- Cao, J.-j., Wang, Q.-y., Chow, J. C., Watson, J.G., Tie, X.-x., Shen, Z.-x., Wang, P., An, Z.-s. 2012. *Atmos Environ* 59: 559-566.
- Chan, L. Y., Lau, W. L. , Lee, S. C., Chan, C. Y. 2002. Exposure Level of Carbon Monoxide and Respirable Suspended Particulate in Public Transportation Modes While Commuting in Urban Area of Guangzhou, China. *Atmos Environ* 36: 3363-3373.

- Chandler, C. P, Cheney, P. Thomas, L. Trabaund and D. Williams. 1983. *Fire in Forestry. Volume 1. Forest Fire Behaviour and Effects*. Canada and USA: Jhon Willey and Sons, Inc.
- Christopher, S. A., Zhang, J., Kaufman, Y. J., Remer, L. A. 2006. Satellite-based Assesment of Top of Atmosphere Anthropogenic Aerosol Radiative Forcing Over Cloud-free Oceans. *Geophys. Res. Lett* 33 L15816.
- Chu, A. D., Y. J. Kaufman, C. Ichoku, L. A. Remer, D. Tanré, and B. N. Holben. 2002. *Validation Of MODIS Aerosol Optical Depth Retrieval Over Land*, *Geophys. Research Ltr.*, 29, 10.1029/2001GL013205
- Clar, C.R. dan L.R. Chatten. 1954. *Principles of Forest Fire Management*. Departement of Natural Resources Devision of Forestry. California.
- Dahuri, R., 2003, *Keanekaragaman Hayati Laut. Aset Pembangunan Berkelanjutan Indonesia*, Jakarta : PT Gramedia Pustaka Utama.
- De Bano, L. F, D. G. Neary and P. F. Folliot. 1998. *Fire's Effect and Ecosystems*. New York : Jhon Willey and Sons, Inc..
- Demuzere, M., Trigo, R.M., Vila-Guerau de Arellano, J., van Lipzig, N.P.M. 2009. The Impact of Weather and Atmospheric Circulation on O₃ And PM₁₀ Levels at A Rural Mid-Latitude Site. *Atmospheric Chemistry and Physics* 9: 2695-2714.
- Deng Q.H., Lu C. and Yu C. 2015. Characterising Ambient Concentrations of PM₁₀ in Urban Environment of Central South China. *Indoor Built Environ* 24: 324–339.
- Desira Mardatillah, 2014. Analisis tingkat pencemaran udara perkantoran: Makasar.
- Effendi, H. 2002. *Telaah Kualitas Air*. Yogyakarta: Kanisius.
- Emmanuel S. C. 2000. Impact To Lung Health of Haze From Forest Fires. The Singapore experience. *Respirology* 5 (2): 175–182.
- Engel-Cox, J.A., Hoff, R. M., Haymet, A.D.J.J. 2004. *Air Waste Manage. Assoc* 54: 1360-1371.
- Evik, M.S and G.A.Moore. 2007. Construction Of A Genetic Linkage Map Of Citrus With Random Amplified Polymorphic DNA (RAPD) Markers Using A Progeny Population From A Complex Intergeneric Cross. *Turk J Bot.*31: 79-86.
- Fardiaz Srikandi. 1992. *POLUSI AIR & UDARA*. Penerbit KANISIUS. Yogyakarta.

- Field, R. D., van der Werf, G. R., Shen, S. S. P. 2009. Human Amplification of Drought-induced Biomass Burning in Indonesia Since 1960. *Nature Geosci* 2: 185-188.
- Fulton, S. & Fulton, F. HTML5 Canvas Native Interactivity and Animation for the Web, *O'REILLY* 2011
- Gamble JF dan RJ Lewis. (1996). Health and Respirable Particulate (PM₁₀) Air Pollution: A Causal or Statistical Association Dalam Environmental Health Perspective 104: 838-850.
- Gaveau DLA, et al. 2014. Major Atmospheric Emissions from Peat Fires In Southeast Asia During Non-Drought Years: Evidence From The 2013 Sumatran Fires. *Sci Rep.* 4 (6112): 1-7.
- German Technical Cooperation (GTZ). 1998. Haze Guide, versi #2. Jakarta.
- Giddings, J.S.1973. *Chemistry Man and Environmental Change*. Canfield Press. New York.
- Grguric, S., Krizan, J., Gasparae, G., et. al. 2013. *Central European Journal of Geosciences* 6: 2-16.
- Hadjimitsis, D.G., Mamouri, R.E., Nisantzi, A., Hadjimitsis, D. G. Ed. 2013. *InTech Rijeka Croatia* 8: 97-130.
- Hayasaki H, Noguchi I, Rutra I E, Yulianti N. and Vadrevu K. 2014. Peat-Fire-Related Air Pollution in Central Kalimantan, Indonesia. *Environ. Pollut* 195: 257-266.
- He GX, Yu CWF, Lu C and Deng QH. 2013. The Influence of Synoptic Pattern and Atmospheric Boundary Layer on PM₁₀ and Urban Heat Island. *Indoor Built Environ.* 22: 796-807.
- Herman, J. R., and E. A. Celarier. 1997. *Earth Surface Reflectivity Climatology at 340- 380 nm from TOMS Data*. *J. Geophys. Res.* 102: 28,003- 28, 011.
- Holopainen R, et al. 2006. Mitigating the Adverse Impact of Particulates on Indoor Air, Tekes.
- Hoffman, A. A. 2000. Pendeteksian Kebakaran NOAA-AVHRR di Proyek IFFM. <http://www.iffm.or.id/noaa.htm>. [13 Mei 2008]
- Joy, V., "Getting to Grips with HTML5 Browser Compatibility", <https://speckyboy.com/gettingto-grips-with-html5-browsercompatibility/> (Diakses 10 Maret 2017)
- Kailash, N. NETCDF Module. <http://unidata.github.io/netcdf4python/> (Diakses 11 Maret 2017)

- Kalnay et al., 1996. The NCEP/NCAR 40-year Reanalysis Project, Bull. Amer. Meteor. Soc 77: 437-470.
- Kaufman, Yoram J, and Didier Tanre. 1998. *Algorithm For Remote Sensing of Tropospheric Aerosol From Modis*.
- Kaufman, Y. J., Boucher, O., Tanré, D., Chin, M., Remer, L. A., Takemura, T. 2005. Aerosol Anthropogenic Component Estimated From Satellite Data. Geophys. Res. Lett 32, L17804.
- Kayce, B. Network Analysis Reference. <https://developers.google.com/web/tools/chromedevtools/networkperformance/reference.html> (Diakses 11Maret2017)
- Kittaka, Ciecho. James Szykman. 2004. Utilizing Modis Satellite Observations To Monitor and Analyze Fine Particulate Matter, PM_{2.5}. Transport Event.
- Kong, L., Xin, J., Zhang, W., Wang, Y. 2016. The Empirical Correlations Between PM_{2.5}, PM₁₀ and AOD in The Beijing Metropolitan Region and The PM_{2.5}, PM₁₀ Distributions Retrieved by MODIS. Environ Pollut 5: 350-360.
- Koren, H. 2003. Handbook of Environmental Health Vol. 1 : Biological, Chemical and Physical Agents of Environmentally Related Disease. Lewis Publ: London.
- Kristanto,P. 2002. Ekologi Industri. Andi, Yogyakarta.
- Kurniawan, A. 2017. Measurement of Air Quality Parameters (CO, NO₂, SO₂, O₃ and PM₁₀) Based on ISPU at Kototabang. Jurnal Teknosains 7: 1-13.
- Kusnoputranto, Haryoto. 2000. Kesehatan Lingkungan. Fakultas Kesehatan Masyarakat Universitas Indonesia, Jakarta.
- Latif MT, Tangang, F. 2011. Factors Influencing The Variations of PM₁₀ Aerosol Dust in Klang Valley, Malaysia During The Summer. Atmospheric Environment 45: 4370–4378.
- Levy, R. C., Mattoo, S., Munchak, L. A., Remer, L. A., Sayer, A. M., Patadia, F., Hsu, N.C. 2013. Atmos Meas Tech 6: 2989-3034.
- Liu Z, Hu B, Wang L, Wu F, Gao W, Wang Y. 2014. Seasonal and Diurnal Variation in Particulate Matter (PM and PM) at An Urban Site of Beijing: Analyses From A 9-Year Study. Environ Sci Pollut Res Int. 22(1): 627-642.
- Lu C, Deng Q, Yu C, Sundell J and Ou C. 2014. Effects of Ambient Air Pollution on The Prevalence of Pneumonia in Children: Implication For National Ambient Air Quality Standards in China. Indoor Built Environ 23: 259–269.

- Ma, X., Wang, J., Yu, F., Jia, H., Hu, Y. 2016. Can MODIS AOD be Employed to Device PM_{2.5} in Beijing-Tianjin-Hebei Over China?. *Atmos Res* 181: 250-256.
- Maenhaut, W., De Ridder, D. J. A., Fernández-Jiménez, M.-T., Hooper, M. A.; Hooper, B., Nurhayati, M., 2002. *Nucl. Instrum. Methods. Phys Res Sect. B.* 189: 259–265.
- Makra L, Mayer H, Santa T and Holst J. 2010. Variations of Traffic Related Air Pollution on Different Time Scales in Szeged, Hungary and Freiburg, Germany. *Phys Chem Earth* 35: 85–94.
- Marzuki, H. Hashiguchi, T. Kozu, T. Shimomai, Y. Shibagaki, and Y. Takahashi. 2016. Precipitation Microstructure in Different Madden-Julian Oscillation Phases Over Sumatra. *Atmos Res* 168: 121-138.
- Marzuki, H. Hashiguchi, T. Shimomai, and W. L. Randeu. Cumulative 2016. Distributions of Rainfall Rate Over Sumatra, *Progress In Electromagnetics Research M* 49: 1-8.
- Marzuki, H. Hashiguchi, M. K. Yamamoto, S. Mori, M.D. Yamanaka. 2013. Regional Variability of Raindrop Size Distribution Over Indonesia. *Ann. Geophys* 31: 1941–1948.
- Miettinen, J.; Liew, S. C. 2005. Connection Between Fire and Land Cover Change in Shouteast Asia: A Remote Sensing Case Study in Riau, Sumatra. *Int. J. Remote Sens* 26 (6): 1109-1126.
- MODIS Collection 6 NRT - MODIS Collection 6 NRT Hotspot / Active Fire Detections MCD14DL. Available on-line <<https://earthdata.nasa.gov/firms>>. DOI: 5067/FIRMS/MODIS/MCD14DL.NRT.006
- Mott, J.A., Mannino, D.M., Alverson, C.J., Kiyu, A., Hashim, J., Lee, T., Falter, K., Redd, S.C. 2005. Cardiorespiratory Hospitalizations Associated With Smoke Exposure During the 1997 Southeast Asian Forest Fires. *International Journal of Hygiene and Environmental Health* 208: 75-85.
- Mukono H. J. 1997. *Pencemaran Udara dan Pengaruhnya Terhadap Gangguan Saluran Pernapasan*. Surabaya: Airlangga University Press.
- Nazarenko, L. Rind, D., Tsigaridis, K., Del Genio, A. D., Kelley, M., Tausnev, N. 2017. Interactive Nature of Climate Change and Aerosol Forcing. *J Geophys Res Atmos* 122 (6): 3457-3480.
- Nugoro, S B., Fujiwara A. and Zhang J. 2010. The influence of BRT on the ambient PM₁₀ concentration at roadside sites of Trans Jakarta Corridors. *Procedia Environmental Sciences* 2: 914-924.

- Page, S E, Siegert, F., Rieley, J O, Boehm, H. V., Jaya, A., Limin, S. 2002. The Amount of Carbon Released From Peat and Forest Fires in Indonesia During 1997. *Nature* 420 (6911): 61–65.
- Parker, R. J., Boesch, H., Wooster, M. J.; Moore, D. P.; Webb, A. J.; Gaveau, D.; Murdiyarso, D. 2016. Atmospheric CH₄ and CO₂ Enhancements and Biomass Burning Emission Ratios Derived From Satellite Observations of The 2015 Indonesian Fire Plumes. *Atmos Chem Phys* 16: 10111-10131.
- Pope, C. A.; Dockery, D. W. *J. Air Waste Manage. Assoc.*, 2006, 56, 709-742.
- Pudjiastuti, W. 2002. Debu Sebagai Bahan Pencemar Yang Membahayakan Kesehatan Kerja Jakarta, Pusat Kesehatan Kerja, Departemen Kesehatan Republik Indonesia.
- Purwadhi, Sri Hardiyanti, Tajaturahono Budi Sanjoto. 2009. *Pengantar Interpretasi Citra Penginderaan Jauh*. Pusat Data Penginderaan Jauh Lembaga Penerbangan, dan Antariksa Nasional, dan Geografi Universitas Negeri Semarang: Jakarta
- Purwadhi, Sri Hardiyanti. 2001. *Interpretasi Citra Digital*. PT. Gramedia Widiasarana Indonesia: Jakarta
- Purwana R. 1999. Particulate Rumah Sebagai Faktor Resiko Gangguan Pernapasan Anak Balita (Penelitian di Kelurahan Pekojan, Jakarta) Disertasi, FKM, Univesitas Indonesia, Jakarta.
- Rieley JO, Ahmad-Shah, Brady MA. 1996. The extent and nature of tropical peat swamps. Di dalam: *E. Maltby, C. P. Immirizi, & R.J. Safford (eds.), Tropical Lowland Peatlands of Southeast Asia, Proceedings of A Workshop on Integrated Planning and Management of Tropical Lowland Peatlands, IUCN, Gland. Switzerland: 17-5*
- Rita, Lestiani DD, Hamonangan E, Santoso M, and Yulinawati H. 2016. Air Quality (PM₁₀ and PM_{2.5}) for Completing a Environmental Quality Index Study. *Ecolab* 10 (1): 1-7.
- Ryadi. 1992. Pencemaran Udara. Usaha Nasional Surabaya.
- R, Ronacher . Flask Documentation. <http://flask.pocoo.org/docs/0.12/> (Diakses 11 Maret 2017)
- Santoso, M., Diah, D.L., Rita, M., Esrom, H., Halimah, S., Markwitz, A. and Hopke, P.K. 2011. Preliminary Study of The Sources of Ambient Air Pollution in Serpong, Indonesia. *Atmos. Pollution Research* 2: 190–96.
- Sastry, N. 2002. Forest Fires, Air Pollution, and Mortality in Southeast Asia. *Demography* 39 (1): 1-23.

- Scipy.org, SciPy Cookbook, <http://scipycookbook.readthedocs.io/> (Diakses 1 Maret 2017)
- See SW, Balasubramanian R, Rianawati E, Karthikeyan S, and Streets DG. 2007. Characterization and Source Apportionment of Particulate Matter $\leq 2.5 \mu\text{m}$ in Sumatra, Indonesia, During a Recent Peat Fire Episode. *Environ Sci Technol* 41 (10): 3488–3494.
- Silalahi D, Hukum Lingkungan (Dalam Sistem Penegakan Hukum Lingkungan Indonesia).Cet:3 (Bandung :PT.Alumni,2001)
- Seinfeld, J. H., Pandis, S. N. 2006. Air Pollution in the Brazilian Road Transport and Its Environmental and Social Consequences. *Atmospheric Chemistry, and Physics*. John Willey, dan Sons Inc: New Jersey
- Soedomo, M. 2001. Pencemaran Udara. Institut Teknologi Bandung, Bandung.
- Song, C. -K.; Ho, C. -H.; Park, R. J.; Choi, Y. -S.; Kim, J.; Gong, D. Y.; Lee, Y. B. 2009. *Asia-Pacific Journal of Atmospheric Sciences* 45: 33-43.
- Saharjo, B.H. 2003. Pengendalian Kebakaran Hutan dan Lahan Yang Lestari Perlukah Dilakukan. Laboratorium Kebakaran Hutan dan Lahan. Departemen Silvikultur. Fakultas Kehutanan. Institut Pertanian Bogor.
- Sukmawati, A. 2006. Hubungan Antara Curah Hujan dengan Titik Panas (Hotspot) sebagai Indikator Terjadinya Kebakaran Hutan dan Lahan di Kabupaten Pontianak Provinsi Kalimantan Barat. [Skripsi]. Bogor : Fakultas Kehutanan IPB.
- Sunu, P. 2001. Melindungi Lingkungan Dengan Menerapkan ISO 14001. Gramedia, Jakarta.
- Suratmo, F.G., E.A.Husaeni dan I.N.S. Jaya. 2003. Pengetahuan Dasar Pengendalian Kebakaran Hutan. Bogor : Fakultas Kehutanan IPB.
- Susanti, Indah. 2007. LAPAN: Pemantauan Aerosol dari Angkasa. <http://www.dirgantarialapan.or.id/apklimatling/input%20nonpenelitian/Info%20Khusus/khusus.doc> . Diunduh tanggal 28 November 2010 pukul 10.18 WIB.
- Sutanto. 1999. *Penginderaan Jauh Jilid 1*. Gajah Mada University Press: Yogyakarta
- Sumitro L.S Danuredjo, 1971, Hukum Internasional Laut Indonesia, Bhartara Djakarta, Jakarta

- Syafrizon, Marzuki, Emriadi, R. Pratama. 2018. Relationship between MODIS-based Aerosol Optical Depth and PM₁₀ Over Sumatra to Overcome The Limitations of Air Quality Monitoring Data Availability. *Orient J Chem* 34 (4): 2163-2169.
- Tacconi, L. 2003. Kebakaran Hutan di Indonesia: Penyebab, Biaya dan Implikasi Kebijakan. CIFOR Occasional Paper No. 38(i). Bogor, Indonesia, CIFOR. 28p
- Tristiyenny, P. 2003. Dampak Kesehatan Masyarakat dan Estimasi Kerugian Ekonomi Akibat Kebakaran Hutan dan Lahan di Kabupaten Bengkalis Tahun 2002. [Tesis]. Jakarta: Fakultas Kesehatan Masyarakat Universitas Indonesia
- Tatyafiah. 2009. Struktur dan Komposisi Atmosfer. (Online), (<http://tatyafiah.files.wordpress.com/2009/09/struktur-dan-komposisi-atmosfer.pdf>)
- Thakur, A. 2017. Study of Ambient Air Quality Trends and Analysis of Contributing Factors in Bangalore, India. *Oriental J Chem* 33(2): 1051-1056.
- Tristiyenny, P. 2003. Dampak Kesehatan Masyarakat dan Estimasi Kerugian Ekonomi Akibat Kebakaran Hutan dan Lahan di Kabupaten Bengkalis Tahun 2002. [Tesis]. Jakarta: Fakultas Kesehatan Masyarakat Universitas Indonesia
- Twomey, S. 1979. *Developments in Atmospheric Science 7: Atmospheric Aerosols*. Elsevier Scientific Publishing Company: Amsterdam
- United States Environment Protection Agency. 1999. Continuous Measurement of PM₁₀ Suspended Particulate Matter in Ambient Air. Center for Environmental Research Information Office of Research and Development, U.S, EPA, Cincinnati, OH.
- Yamaguchi, Takashi, Kenneth J. Mackin, Eiji Nunohiro, Jong Geol Park, Keitaro Hara, Kotaro Matsushita Masanori Ohshiro, Kazuko Yamasaki. 2009. *Artificial Neural Network Ensemble-based Land-Cover Classifiers Using MODIS Data*. Artif Life Robotics. Universitas Indonesia.
- Wang, J., Christopher, S.A. 2003. Intercomparison Between Satellite-derived Aerosol Optical Thickness and PM_{2.5} Mass: Implications for Air Quality Studies. *Geophys Res Lett* 30: 2095.
- Wardhana, A.W., 1995, Dampak Pencemaran Lingkungan, Edisi II, hal. 35, Andi Offset, Yogyakarta.
- WHO. 1987. Air Quality Guidelines for Europe. WHO Regional Publication European Series no.23

- Wibowo, A. 2003. Permasalahan dan Pengendalian Kebakaran Hutan di Indonesia. Bogor : Pusat Penelitian dan Pengembangan Hutan dan Konservasi Alam.
- Wooster M.J., Perry G.L.W., Zoumas A. Fire, Drought and El Nino Relationships on Borneo (Southeast Asia) in The Pre-MODIS Era (1980-2000). *Biogeosciences* 9 (1): 317–340.
- Wydiastuti, Palupi. (2005). Bahaya Bahan Kimia Pada Kesehatan Manusia Dan Lingkungan/WHO; Alih Bahasa; Editor Edisi Bahasa Indonesia, Monica Ester. Penerbit Buku Kedokteran Jakarta.
- Yahi, H., Marticorena, B., Thiria, S., Chatenet, B., Schmechtig, C., Rajot, J. L., Crepon, M. 2013. *J Geophys Res Atmos* 118: 13265-13281.
- Yang, G. Y., and J. Slingo. 2001. The Diurnal Cycle in The Tropics. *Mon. Wea. Rev* 129: 784–801.
- You, W., Zhang, Z., Zhang, L., Zhang, M., Pan, X., Li, Y. 2016. *Atmos. Res.*, 168: 169-179.
- W, Ka, Yee. WRF-Chem. <https://ruc.noaa.gov/wrf/wrf-chem/> (Diakses 11 Maret 2017)

