

DAFTAR PUSTAKA

1. Slame. et al.: Pengolahan Limbah Logam Berat Chromium (VI) dengan Fotokatalis TiO₂. Makara, Teknologi April 2003, Vol. 7, No. 1,
2. Sarjono. A.: Analisis Kandungan Logam Berat Cd, Pb, dan Hg Pada Air dan Sedimen di Perairan Kamal Muara, Jakarta Utara. *Skripsi*. Fakultas Perikanan dan Ilmu Kelautan, Institut Pertanian Bogor, Bogor.2009
3. Sturini, M, et al.: Photolytic and photocatalytic degradation of fluoroquinolones in untreated river water under natural sunlight”, *Applied Catalysis B : Environmental*, **119**, 32-39 (2012).
4. Terzian, R dan Serpon.: Heterogeneous Photocatalyzed Oxidation of Cresote components: Mineralizations of Xylenols by illuminated TiO₂ in Oxygenated Aqueous Media”. *J Photochem. Photobiol. A: Chemistry* 1998, 89, 163-175
5. Haiyan L. et al.: Synthesis of highly efficient C-doped TiO₂ photocatalyst and its photo-generated charge-transfer properties. *J Colloid Interf Sci* 2011; **354**:175–180.
6. Znad H, Kawase Y.: Synthesis and characterization of S-doped Degussa P25 with application in decolorization of Orange II dye as a model substrate. *J Mol Catal A-Chem* 2009; **314**:55–62.
7. Senthilnathan J, Philip L.: Photocatalytic degradation of lindane under UV and visible light using N-doped TiO₂. *Chem Eng J* 2010; **161**:83-92.
8. Horst K. et al.: A Low-Band Gap, Nitrogen-Modified Titania Visible-Light Photocatalyst. *J Phys Chem C* 2007; **111**:11445-11449.
9. Nguyen Cao Khang. et al.: Synthesis and Characterization of the N-DOPED TiO₂ Photocatalyst for the Photodegradation of Methylene Blue and Phenol. *Journal of Nanoscience and Nanotechnology* 2011 Vol. 11, 1-5,
10. Yue Xia. et al.: Interface Actions Between TiO₂ and Porous Diatomite on the Structure and Photocatalytic Activity of TiO₂-Diatomite”. *Applied Surface Science* xxx 9 2014) xxx-xxx
11. Asmadi. et al.: Pengurangan Chrom (Cr) dalam Limbah Cair Industri Kulit pada Proses Tannery menggunakan Senyawa Alkali Ca(OH)₂, NaOH dan NaHCO₃ (Studi Kasus PT. Trimulyo Kencana Mas Semarang). 2009. Jurusan Teknik Lingkungan, UNDIP Semarang

12. Tavakkoli. L. et al: Environmental and Occupational Exposure to Chromium in Iran: A systematic review. *Journal of Epidemiological Research* 2017, Vol. 3, No. 2
13. Suksabye. P. et al.: Chromium Removal from Electroplating Wastewater by Coir Pith. *Journal of Hazardous Materials* 141 (2007) 637–644
14. Nuryanto: Studi Pelapisan Krom Dengan Proses Elektroplating Pada Handel Rem Sepeda Motor Dengan Variasi Waktu Penahan Celup Terhadap Ketebalan Lapisan. *Tugas Akhir*. 2013. Jurusan Teknik Mesin, Universitas Muhammadiyah, Surakarta
15. Alaa Mohamed T.A. et al.: Visible Light Photocatalytic Reduction of Cr(VI) by Surface Modified CNT/Titanium Dioxide Composites Nanofibers. *Journal of Moleculer Catalysis A: Chemical*.2016
16. Yuan, Yali. et al.: TiO₂ Nanoparticles Co-Doped with Silver and Nitrogen for Antibacterial Application. *Journal of Nanoscience and Nanotechnology*, 2010, 10.8: 4868-4874
17. Zhang. J. et al.: New Understanding of the Difference of Photocatalytic Activity among Anatase, Rutile And Brookite TiO₂. *Phys. Chem. Chem. Phys.*, 2014, 16, 20382—20386
18. Lisenbigler. et al.: Photocatalysis on TiO₂ Surface: Principles, Mechanism and Selected Result. *Chem. Rev.* 1995, 95:735-758.
19. Jiarui Huang. et al.: Facile Synthesis of Porous TiO₂ Nanospheres and Their Photocatlytic Properties". *Superlattices and Microstructures* 81 (2015) 16-25
20. Liu Shou-Heng dan Han-Ren Syu.: One-Step Fabrication of N-Doped Mesoporous Tio2 Nanoparticles by Self-Assembly for Photocatalytic Water Splitting Under Visible Light. S.-H. Liu, H.-R. Syu / *Applied Energy* 100 (2012) 148–154
21. Guidong Yang. et al.: Preparation of Highly Visible-Light Active N-Doped TiO₂ Photocatalyst. *Journal of M aterials Chemistry*, 2010, 20, 5301-5309
22. Qing Chi Xu. et al.: Superhydrophilicity-Assisted Preparation of Transparent and Visible Light Activated N-doped Titania Film. *Nanoscale* 2010, 2, 1122-1127
23. Qing Chi Xu. et al.: Enhanced Photocatalytic of C-N-codoped TiO₂ Films Prepared Via an Organic-free Approach. *Journal Of Hazardous Materials* 2011, 188, 172-180

24. Hui-Lei W, Xiao-Heng L:Synthesis of N-doped mesoporous titania with high visible-light photocatalytic activity. *Journal of Inorganic Materials* 2014, Vol.29, No. 9:997-1002.
25. Rohmah. N.: Sintesis dan Karakterisasi Fotokatalis Ni-N-Tio2 menggunakan Metode Sol Gel untuk Degradasi Metilen Biru. Skripsi, 2015. Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Negeri Semarang, Semarang.
26. Ramadhani, F: Sintesis Tio2 Berpori Yang Dimodifikasi Oleh Karbon (C) Dan Nitrogen (N) Dengan Metoda Peroxo Sol Gel Untuk Aplikasi Reduksi Polutan Logam Berat Ion Cr(Vi). *Skripsi*, 2017. Fakultas Matematika Dan Ilmu Pengetahuan Alam, Universitas Andalas, Padang
27. Pratiwi, N.: Sintesis dan karakterisasi lapisan tipis TiO_2 berpori yang didoping dengan niteogen melalui metode proxo sol gel untuk aplikasi material pembersih diri (self ckeaning material), Skripsi Sarjana Kimia FMIPA UNAND, 2016.
28. Fitria, D.: Sintesis C-N-codoped TiO_2 dengan metode peroxo sol gel untuk aplikasi reduksi polutan senyawa ion logam Cr(VI). Skripsi Sarjana Kimia FMIPA UNAND, 2016.
29. Jinfeng. Z. et al.: New Understanding Of The Difference Of Photocatalytic Activity Among Anatase, Rutile And Brookite TiO_2 . *Phys. Chem. Chem. Phys*, 2014, 16.38: 20382-20386.
30. D. Huang. et al.: Using phosphoric acid as a catalyst to control the structures of mesoporous titanium dioxide materials". *Microporous and Mesoporous Materials* 84 (2005) 27–33
31. Xiao Lia. et al.: Preparation of homogeneous nitrogen-doped mesoporous TiO_2 spheres with enhanced visible-light photocatalysis“*Applied Catalysis B: Environmental* 164 (2015) 352–359
32. Khu, Le Van. et al.: Activated carbon derived from rice husk by NaOH activation and its application in supercapacitor. 2014, 24,191-198.
33. Suryati. L.: Pengembangan Metode Spektroskopi untuk Penentuan Spesis Krom dengan Oksidator Hiprokit dan Peroksida Berdasarkan Pembentukan Kompleks Cr(VI)-Difenilkarbazida, *Thesis*. 2014. Proram Sarjana Kimia, Universitas Brawijaya, Malang.
34. Suryawanshi, P. et al: Solid and liquid wastes Avenues of collection and disposal. *International Research Journal of Environment Sciences* (2013)., 2(3), 74–77.

35. R. Hooke:Micrographia: Or Some Physiological Descriptionsof Minute Bodies Made by Magnifying Glasses with Observationsand Inquiries Thereupon (J. Martyn and J. Allestry, London, UK,1665).
36. S. Perkowitz: Universal Foam: From Cappuccino to the Cosmos (Walker & Company, New York, NY, 2000)..
37. D.L. Weaire dan S. Hutzler: The Physics of Foams (Oxford University Press, Oxford, UK, 2001W
38. L.J. Gibson dan M.F. Ashby: Cellular Solids: Structure and Properties,2nded. (Cambridge University Press, Cambridge, UK,1999).
39. Colombo, P.: Advances in the Synthesis, Characterization, and Propertiesof Bulk Porous Materials (2013). *Porous materials: Less is more. Journal of Materials Research*, 28(17), 2187–2190. doi:10.1557/jmr.2013.232
40. Arutanti, O. et al.: Penjernihan Air dari Pencemar Organik dengan Proses Fotokatalis pada Permukaan Titanium Dioksida (TiO_2)”, Jurnal Nanosains dan Nanoteknologi. **Edisi Khusus**, 53-55 (2009).
41. Holm, T.A., Valsangkar, A.J.: Lightweight aggregate soil mechanics: properties and applications. ESCSI No. 6610 (2001)
42. Barkul. R. P.; Koli. V. B., Shewale. V. B.; Patil M.K.; Delekar. S. D.; Visible Active Nancrystalline N-doped anatase TiO_2 Particles For Photocatalytic Mineralization Studies. *Materials Chemistry and Physics* 2016, xxx:1-10.
43. Menthod and Its Application on Photocatalytic Degradation. *J.Sol-Gel Method*. 2016. 77: 287-297.
44. HERMAWAN. P.: Sintesis Fe(II), Co(II) dan Ni(II) Doped TiO_2 dengan Metode Sol-Gel serta Uji Fotoaktivitasnya pada Degradasi Biru Metilena. Universitas Gadjah Mada, 2015
45. Manahan, S.E. 1992. Enviromental Chemistry. 6th. Ed.Lewis Publisher. USA.
46. Sugiarto, Kristian. H. (2003). Kimia Anorganik II Common Textbook (Edisi Revisi). Yogyakarta: Jurusan Kimia FPMIPA UNY.
47. Vogel. 1985. Analisis Anorganik Kualitatif makro dan semimikro.Jakarta : PT. Kalman Media Pusaka.
48. SING .K. S. W. et al.: Reporting Physisorption Data For Gas/Solid Systems with Special Reference to the Determination of Surface Area and Porosity. Pure & App. Chem., Vol. 57, No. 4, pp. 603—619, 1985.