

DAFTAR PUSTAKA

- Abdullah, M., & Khairurijjal. (2010). *Karakterisasi Nanopartikel Teori, Penerapan, dan Pengolahan Data*. Bandung: CV. Rezeki Putera Bandung: 95-97.
- Alkadasi, A., Idris, A., Saed, K. & Guan, C.T. (2004). Treatment of Textile Wastewater by Advanced Oxidation Processes. *Global Nest the Int. J.* 6: 222-230.
- Awati. P. S, Awate. S. V, Shah. P. P, & Ramaswamy. V. (2003). Photocatalyst Decomposition of Methylene Blue Using Nanocrystalline Anatase Titania Prepared by Ultrasonic Technique. *Catalysis Communications*.4: 393-400.
- Becerro, A. I., Redfern, S. A. T., Carpenter, M. A., Knight, K. S. & Seiferd, S. (2002). Displacive Phase Transitions and Strain Analysis of Fe- Doped CaTiO_3 Perovskites at High Temperatures by Neutron Diffraction. *Journal Solid State Chemistry*. 167: 459-471.
- Bird, T. (1987). *Kimia Fisika Untuk Universitas*. Jakarta : PT. Gramedia.
- Catherine, B. Almquist, & Pratim Biswas. (2002). Role of Synthesis Method and Particle Size Nanostructured TiO_2 on its Photoactivity. *Journal of Catalysis*. 212: 145-156.
- Chanel, Tri Handoko. (2013). Sintesis dan Karakterisasi Senyawa $\text{Ca}_{1-x}\text{Co}_x\text{TiO}_3$ ($x= 0; 0,001; 0,025; 0,05; 0,1$). *Skripsi*. Yogyakarta: FMIPA UNY.
- Chuang, S. H., Gao, K. H., Chiang, M. Y. & Chao, T. S. (2010). Formation and Structural Characterization of Cobalt Titanate Thin Films. *Journal of the Chinese Chemical Society*. 57: 1022-1026.
- Dae-Hee A., Won-Seok C., & Tai-II Y. (1999). Dyestuff Wastewater Treatment Using Chemical Oxidation, Physical Adsorption and Fixed Bed Biofilm Process. *Process Biochemistry*. 34: 429–439.
- Dere'n, P. J., Pazik, R., Streck, W., Boutinaud, Ph. & Mahiou, R. (2008). Synthesis and Spectroscopy Properties of CaTiO_3 Nanocrystals Doped with Pr^{3+} ions. *Journal Alloy Compound*. 451: 595–599.
- Diallo, P.T., Jeanlouis, K., Boutinaud, P., Mahiou, R. & Cousseins, J. C. (2001). Improvement of the Optical Performance of Pr^{3+} in CaTiO_3 . *Journal Alloys Compound*. 323(324): 218-222.
- Dini, P., Wardhani. (2014). Degradasi Metilen Biru Menggunakan Fotokatalis ZnO-Zeolit. *Jurnal FMIPA Universitas Brawijaya*. 7(1): 29-33.

- Ekimav, A.I., Effros, A.I.L., & Anuchenko, A.A. (1985). Quantum Size effect in Semiconductor Microcrystals. *Solid State Communicaion*. 921-1524.
- Enhessari, M., S. Nazari, M., M. Karger, R., S. Ghezelbashi, & M, Habibi, T. (2010). Synthesis and characterizations of CoTiO₃-clay nanocomposites by sol-gel method. *International Journal of Nano Dimension*. 1 (2): 125-132.
- Eshafani, M. N., & Habibi, M. H. (2008). Silver Doped TiO₂ Nanostructure Composite Photocatalyst Film Synthesized by Sol-Gel Spin and Dip Coating Tehnique on Glass. *International Journal of Photoenergy*. 628713: 1-11.
- Fessenden, R.J. & Fessenden, J.S. (1986). *Kimia Organik*. Jakarta: Erlangga.
- Ganapaty Alagumuthu & Mariappan Rajan. (2010). Kinetic and Equilibrium Studies on Fluoride Removal by Zirconium (IV)-Impregnated Groundnut Shell Carbon. *Hemijiska Industrija*. 64(4): 259-304.
- Geng, J., Yang, D., Zhu, J., Chen, D., & Jiang. Z. (2009). Nitrogen Doped TiO₂ Nanotubes with Enhanced Photocatalytic Activity Synthesized by a Facile Wet Chemistry Method. *Materials Research Bulletin*. 44:146-150.
- Goldstein, Joseph. (2003). *Scanning Electron Microscopy and X-Ray Microanalysis*. Springer.
- Gunlazuardi, J. (2001). Fotokatalisis pada Permukaan TiO₂: Aspek Fundamental dan Aplikasinya, Seminar Nasional Kimia Fisik II. Jakarta, 11-12 Juni.
- Hardjono Sastrohamidjojo. (1991). *Spektroskopi*. Yogyakarta: Liberty. Hlm. 64-66.
- _____. (1992). *Spektroskopi Inframerah*. Yogyakarta : Liberty. Hlm. 4, 108.
- Harun, Subiyanto. (2009). Pelapisan Nanomaterial TiO₂ Fase Anatase pada Nilon Menggunakan Bahan Perekat Aica Aibon dan Aplikasinya Sebagai Fotokatalis. *Jurnal nanosains dan Nanoteknologi*. Edisi khusus. 50-52.
- Hurlbut, Cornelius.S. & Klein, Cornelis. (1985). *Manual of Mineralogy*. Hlm. 69–73.
- Is Fatimah. (2006). Pengaruh Konsentrasi Agen Pemilar Terhadap Karakter Fisikokimiawi dan Fotoaktivitas ZrO₂-Montmorillonit pada Degradasi Fotokatalitik Limbah Cair Industri Tekstil. *Logika*. 3(2): 42-50.
- I Kadek Sumerta, Karna Wijaya, & Iqmal Tahir. (2002). Fotodegradasi Menggunakan Katalis TiO₂-Montmorilonit dan Sinar UV. *Jurnal MIPA*. 1-7.
- Jacob, K.T. & Rajitha.G. (2010). Role of Entrophy in The Stability of Cobalt Titanates. *Journal*

Chemistry Thermodynamics. 42 : 879-88.

- Jaya, D.M.N. (2005). A Study on the Growth and Structure of Titania Nanotubes. *Journal of Material Research*. 19(2): 417-422.
- Kim, D. W. (2000). Mixture Behavior and Dielectric Properties in Low Fired TiO₂- ZnO System. *Journal Applied Physic* 39: 2696-2700.
- Kim, I. S., Jung, W. H., Inaguma, Y., Nakamura, T. & Itoh, M. (1995). Dielectric Properties of a Site Deficient Perovskite-Type Lanthanum-Calcium-Titanium Oxide Solid Solution System [(1-x)La_{2/3}TiO_{3-x}CaTiO₃(0.1≤x≤0.96)]. *Material Research Bulletin*. 30: 307-316.
- Kim,W. S., Yoon, K. H., & Kim, E. S. (2000). Microwave Dielectric Properties and Far-Infrared Refractivity Characteristics of the CaTiO₃-Li_{1/2-3x}Sm_{1/2+x}TiO₃ Ceramics. *Journal America Ceramic Society*. 83: 2327-2329.
- Kutty, T. R. N., Vivekanan, R., & Murugaraj, P. (1988). Precipitation of Rutile and Anatase (TiO₂) Fine Powders and Their Conversion to MTiO₃(M=Ba,Sr,Ca)by the Hydrothermal Method. *Material Chemistry Physic*.19: 533-546.
- Li, Ming-Wei., Xiao-Mei, Gao., Yin-Ling, Hou., & Chen-Yang, Wang. (2013). Characterization of CoTiO₃ Nanocrystalline Prepared by Homogeneous Precipitation Method. *Journal of Nano and Electron Physic*. 6 (3): 1-3.
- Lee, S. J., Kim, Y. C., & Hwang, J. H. (2004). AnOrganik-Inorganik Solution Technique for Fabrication of Nano-Sized CaTiO₃ Powder. *Journal Ceramics Process Research*.5: 223-226.
- M. Natsir Arsyad. (2001). *Kamus Kimia Lengkap Istilah dan Terjemahan*. Jakarta: Erlangga.
- Manendar. R. (2010). Pengolahan Limbah Cair Rumah Pemotongan Hewan (RPH) Dengan Metode Fotokatalitik TiO₂ : Pengaruh Waktu Kontak Terhadap Kualitas BOD5, COD, dan pH Efluen. *Tesis*. Program Studi Bogor: Kesehatan Masyarakat Veteriner Sekolah Pascasarjana Institut Pertanian Bogor.
- Mario L. Moreira a, Elaine C. Paris a, Gabriela S. do Nascimento a, Valeria M. Longo e, Julio R. Sambrano b, Valmor R. Mastelaro c, Maria I.B. Bernardi c, Juan Andre´s d, Jose´ A. Varela e, & Elson Longo e. Structural and Optical Properties of CaTiO₃ Perovskite-based Materials Obtained by Microwave-assisted Hydrothermal Synthesis: An Experimental and Theoretical Insight. *Acta Materialia*. 57: 5174-5185.
- Marques, V.S. (2009). Synthesis of (Ca, Nd)TiO₃ Powders by Complex Polymerization, Rietveld Refinement and Optical Properties. *Spectrochimica Acta Part A*. 74: 1050-1059.
- Mertins, F.H.B. (2005). *Perovskite-type Ceramic Membranes*. Enschede: Febodruk.

- Muthuraman, M., Patil, K. C., Senbagaraman, S. & Umarji, A. M. (1996). Sintering, Microstructural, and Dilatometric Studies of Combustion Synthesized Synroc Phases. *Mater. Res. Bull.* 31: 1375-1381.
- Pfaff, G. (1994). Synthesis of Calcium Titanate Powders by the Sol-Gel Process. *Chemistry Material.* 6: 58-62.
- Qodri, A. A. (2011). Fotodegradasi Zat Warna Remazol Yellow FG dengan Fotokatalis Komposit TiO₂/ SiO₂. *Skripsi.* Surakarta: FMIPA Universitas Sebelas Maret.
- Ratih Langenati, Rahmad Mordiono M., Deni Mustika, Bangun Wasito, & Ridwan. (2012). Pengaruh Jenis Adsorben dan Konsentrasi Uranium terhadap Pemungutan Uranium dari Larutan Uranil Nitrat. *Jurnal Teknik Bahan Nuklir.* 8(2): 95-104.
- Ringwood, A., Plaska, J., Przepieira, J., Jablonski, M. & Konratowska, A. (2009). Preparation of Cobalt Titanates via Co-Precipitation While Using Industrial Intermediates as Titanium Precursors. *Polish Journal of Chemical Technology.* 11(2): 51-54.
- Rachmad Manendar. (2010). Pengolahan Limbah Cair Rumah Potong Hewan (RPH) dengan Metode Fotokatalitik TiO₂ : Pengaruh Waktu Kontak Terhadap Kualitas BOD₅, COD, dan pH Efluen. *Tesis.* Bogor : Institut Pertanian Bogor.
- Riyanto. (2010). *Limbah Bahan Berbahaya dan Beracun (B3).* Yogyakarta: FMIPA UII.
- S.M. Khopkar. (2008). *Konsep Dasar Kimia Analitik.* Jakarta: UI Press. Hlm. 226.
- Sato, T., Yamashita, T. & Matsui, T. (2005). Phase Equilibria and Thermal Expansion of CaTiO₃ Doped-La_{2/3} TiO₃ Perovskite. *Dissertation.* Japan : Tokyo Institute of Technology.
- Sen, S. & Demirel, G. N. (2003). Anaerobic Treatment of Synthetic Textile Wastewater Containing A Reactive Azo Dye. *Journal of Environmental Engineering.* 595-601.
- Sharad, S., Gaikwad, Ashok, V., Borhade, & Vishwas, B. Gaikwad. (2012). A Green Chemistry Approach for Synthesis of CaTiO₃ Photocatalyst: Its Effects on Degradation of Methylene Blue, Phytotoxicity and Microbial Study. *Journal of Der Pharma Chemica.* 4(1): 184-193.
- Skoog, Holler & Crouch. (2007). *Principle of Instrumental Analysis Sixth Edition.* Canada: Thomson Brooks/ Cole.
- Sumerta, I. K., Wijaya, K., & Tahir, I. (2002). Fotodegradasi Metilen Biru Menggunakan Katalis TiO₂-Montmorillonit dan sinar UV. *Makalah Seminar Nasional Pendidikan Kimia, FMIPA, Universitas Negeri Yogyakarta.*

Sutopo. (2012). Porositas, Kuat Tekanan dan Kuat Tarik Belah Beton dengan Agregat Kasar Batuan Pecah Peca dibakar. *Jurnal Ilmiah Teknik Sipil*. 15 (1).

Suvorov, D., Valant, M., Jancar, B. & Scapin, S. D. (2001). CaTiO₃-Based Ceramics: Microstructural Development and Dielectric Properties. *Acta Chim Slov*. 48: 87-99.

T. Tong, J., Zhang, B., Tian, F., Chen. & D. He. (2008). Preparation of Fe³⁺ Doped TiO₂ Catalys by Hydrolisis of Titanium Alkoxide and Study On Their Photocatalytic Activity for Methyl Orange Degradation. *Journal of Hazardous Material*. 155: 572-579.

Tian, J. (2009). Preparation and Characterization of TiO₂, ZnO, and TiO₂/ZnO Nanofilms Via Sol-gel Process. *Ceramics International*. 35: 2261-2270.

Wang, R. P. & Tao, C. J. (2002). Nb-doped CaTiO₃ Transparent Semiconductor Thin Films. *Journal Crysatal Growth*. 245: 63-66.

Xiaofang, Y., Shi, X., Shen, M., Wang, W., Fang, L., Zheng, F. & Wu, X. (2009). Luminescent Properties of Pr³⁺ Doped (Ca, Zn) TiO₃ : Powders and Films. *Elsevier, Amsterdam*. 485: 831-836.

Yamanka, Takamitzu. (2002). Structure Change of Ca_{1-x}Sr_xTiO₃ Perovskite with Composition and Pressure. *American Mineralogist*. 87: 1183-1189.

<http://www.copybook.com/pharmaceutical/micromeritics-instrument-corporation/articles/asap-2020-hd-accelerated-surface-area-and-porosimetry-system>. Diakses pada tanggal 13 Mei 2015, jam 9:27.