

## DAFTAR PUSTAKA

- Ashiq, M.N., Najam-Ul-Haq, M., Amanat, T., Saba, A., Qureshi, A.M., dan Nadeem, M., 2012, Removal of Methylene Blue from Aqueous Solution using Acid/Base Treated Rice Husk as an Adsorbent, *Journal of Desalination and Water Treatment*.
- Barsoum, M. W., 2003, *Fundamentals of Ceramics*, Philadelphia : Institute of Physics Publishing.
- Bhukal, S., Shivali, & Singhal, S., 2014, *Magnetically separable copper substituted cobalt– zinc nano-ferrite photocatalyst with enhanced photocatalytic activity*. Materials Science in Semiconductor Processing, 26, 467–476.
- Callister Jr., W.D., 2007, *Material Science and Engineering*, 7<sup>th</sup> edition, John Wiley & Sons, Inc, United State of America.
- Chahar, D., Taneja, S., Bisht, S., Kesarwani, S., Thakur, P., Thakur, A., and Sharma, P.B., 2021, Photocatalytic Activity of Cobalt Substituted Zinc Ferrite for the Degradation of Methylene Blue Dye under Visible Light Irradiation, *Journal of Alloys and Compounds*, 851, 156878.
- Chang H.T., N. Wu, F. Zhu., 2000, A kinetic model for photocatalytic degradation of organic contaminant in a thin film TiO<sub>2</sub> catalyst. *Water Res.*, 34, 407-416.
- Coey, J. M. D., 2009, *Magnetism and Magnetic Materials*, Cambridge University Press, New York.
- Cullity, B.D. and Graham, C.D., 2009, *Introduction to Magnetic Materials*, 2<sup>nd</sup>, John Wiley & Sons, Inc., New Jersey.
- Fan, G., Tong, J. and Li, F., 2012, Visible-light-induced photocatalyst based on cobalt-doped zinc ferrite nanocrystals, *Industrial and Engineering Chemistry Research*, 51(42), pp. 13639–13647.
- Fernandez, B.R., Jamarun, N., Arief, S., 2012, Sintesis, Pelapisan dan Stabilitas Senyawa Oksida Besi oleh Silika dan Aplikasinya untuk Amobilisasi Protein, *Skripsi*, Departemen Kimia, Universitas Andalas.
- Goldman, A., 2006, *Modern Ferrite Technology*, Springer, New York

- Hariani, P.L., M. Faizal, Ridwan, Marsi dan D., 2013, Synthesis and Properties of Fe<sub>3</sub>O<sub>4</sub> Nanoparticles by Co-precipitation Method to Removal Procion Dye, *International Journal of Environmental Science and Development*, 4(3), pp. 336-340
- Hariyanto, Y. A., A Taufiq. S Sunaryono., 2018, Sintesis, Karakterisasi Struktur dan Sifat Optik Nanopartikel Hidroksiapatit/Magnetit, *Skripsi*, UM, Malang
- He, Y., 2013, Surface behavior and photocatalytic property of Co<sub>1-x</sub>Zn<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> nanoparticles synthesized by a hydrothermal method. College of Materials Science and Engineering
- Hendayana, Sumar., 1994, *Kimia Analitik Instrumen*. Semarang : Semarang Press.
- Hermann, J.M. *Heterogenous photocatalysis fundamental and application to the removal of various type of aqueous Pollutans*. Catal. Today, 53 (1999) 115-129.
- Hoffman M. R., S. T, Martin, W, Choi., D.W. Bahnemann., 1995, *Environmental Application of Semiconductor Photocatalysis*, Chem. Rev., 95, 735-758
- Hosokawa, M., Kiyoshi N., Makio N., dan Zohreh A., 2007, *Nanoparticle Technology Handbook*, Elsevier, Netherland.
- Hou, C., Hao Y., Qinghong Z., Yaogang L., dan Hongzhi W., 2010, Preparation and Magnetic Property Analysis of Monodisperse Co-Zn Ferrite Nanospheres, *Journal of Alloys and Compounds*, volume 491, halaman 431-435.
- Istiqomah, N.I., 2020, Sintesis, Karakterisasi dan Uji Aktivitas Fotokatalis pada Nanopartikel Magnetik ZnNi-Ferrite/Silika, *Thesis*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.
- Kalam, Abul, Abdullah G. Al-Sehemi, Mohammed Assiri, Gaohui Du, Tokeer Ahmad, Irfan Ahmad, M. Pannipara, 2018, *Modified Solvothermal Synthesis of Cobalt Ferrite (CoFe<sub>2</sub>O<sub>4</sub>) Magnetic Nanoparticles Photocatalysts for Degradation of Methylene Blue with H<sub>2</sub>O<sub>2</sub>/Visible Light*, Results in Physics 8: 1046-53.
- Kharisov, B.I., Dias, H.V.R., dan Kharissova, O.V., 2014, *Mini-Review Ferrite Nanoparticles in Catalysis*, *Arabian Journal of Chemistry*, 10, 1-13.
- Khopkar, S. M. 1990. *Konsep Dasar Kimia Analitik*. Jakarta: UI Press.

- Kiswanto, Heri., 2020, Analisis Perubahan Struktur Kristal Dan Distribusi Kation Cobalt Ferrite Akibat Substitusi Zinc, *Jurnal Ilmu dan Inovasi Fisika* 04(02): 155-163.
- Leng, Y, 2008, *Materials Characterization*, John Wiley & Sons Pte. Ltd., Singapore.
- Lubis, K. 2015. *Metoda-Metoda Karakterisasi Nanopartikel Perak. Jurnal Teknik Kimia Indonesia*. Vol. 21. No. 79. Hal. 50-51.
- Naseri, M.G. E.B. Saion, H.A. Ahangar, M. Hashim and A.H. Shaari, *Simple preparation and characterization of nickel ferrite nanocrystals by a thermal treatment method*, Powder Technology, vol. 212, 2011, pp. 80-88.
- Mahendra R, Yadav A & Gade A., 2009, *Nanoparticles as a new generation of antimicrobials*. Biotechnol Adv 27: 76–83
- Manova, E., T. Tsoncheva, Cl. Estournes, D. Paneva, K. Tenchev, I. Mitov, and L. Petrov, 2005, Nanosized Iron and Iron –Cobalt Spinel Oxides as Catalysts for Methanol decomposition, *Journal of Applied Catalysis*, Vol. 11, P.5.
- Mardiansyah, Dedi., 2013, Analisa Sifat Ferromagnetik Material Menggunakan Metode Monte Carlo, Universitas Pasir Pengairan.
- Martínez, 2014, Synthesis Method Effect of CoFe<sub>2</sub>O<sub>4</sub> on its Photocatalytic Properties for H<sub>2</sub> Production from Water and Visible Light. *Miguel de Cervantes* 120, C. P. 31109
- Mathew, D.S. dan Juang, R.S., 2007, An Overview of the Structure and Magnetism of Spinel Ferrite Nanoparticle and Their Synthesis in Microemulsions, *Chemical Engineering Journal*, 129, 51 – 65.
- McMahon, Gillian., 2007, *Analytical Instrumentation : A Guide to Laboratory, Portable and Miniaturized Instruments*, J. Wiley, England.
- Mohallem, N.D.S., Silva, J.B., Nascimento, G.L.T.N. dan Guimaraes, V.L., 2012 Study of Multifunctional Nanocomposites Formed by Cobalt Ferrite Dispersed in a Silica Matrix Prepared by Sol-Gel Process, *License intench*, 458-481.

- Muzakki, A. T., 2020, Sintesis, Karakterisasi, dan Uji Aktivitas Fotokatalitik dari Nanopartikel *core-shell* CoFe<sub>2</sub>O<sub>4</sub>@ZnO, *Thesis*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.
- Nazah, S.F., 2017, Investigasi Sifat-Sifat Magnetik Alloy Co<sub>1-x</sub>Ptx dan Penentuan Temperatur Curie Berdasarkan Simulasi Mikromagnetik, *Skripsi*, FMIPA UNEJ, Jember.
- Ortega López, Y. *et al.*, 2015, Synthesis method effect of CoFe<sub>2</sub>O<sub>4</sub> on its photocatalytic properties for H<sub>2</sub> production from water and visible light, *Journal of Nanomaterials*, 2015.
- Puri, R. K. dan Babbar, V.K., 1997. *Solid State Physics*, S.Chand & Company Ltd, New Delh
- Raina, O. and Manimekalai, R., 2018, Photocatalysis of cobalt zinc ferrite nanorods under solar light, *Research on Chemical Intermediates*, 44(10), pp. 5941–5951.
- Riapanitra, A., Setyaningtyas, T., dan Riyani, K., 2006, *Penentuan Waktu Kontak dan pH Optimum Penyerapan Metilen Biru Menggunakan Abu Sekam Padi*, Jurnal Molekul.
- Rosyidah, Nurul., 2016, Sintesis Nanopartikel ZN<sub>1-x</sub>AL<sub>x</sub>O dengan Metode Kopresipitasi dan Karakterisasi Sifat Listrik, *Skripsi*, Departemen Fisika, FMIPA ITS, Surabaya.
- Sakti, R.B., A. Subagio dan H. Sutanto., 2013, Sintesis Lapisan Tipis Nanokomposit TiO<sub>2</sub>/CNT Menggunakan Metode Sol-Gel dan Aplikasinya untuk Fotodegradasi Zat Warna Azo Orange3R, *Youngster Physics journal*, 1(3) : 41-48.
- Sarkar, R., C.S. Tiwary, P. Kumbhakar, S. Basu, dan A.K. Mitra., 2008, Yellow-orange light emission from Mn<sup>2+</sup>-doped ZnS nanoparticles. *Journal Physica E*, 3115–3120.
- Sundararajan, M., Sailaja, V., Kennedy, L.J. and Vijaya, J.J., 2017, Photocatalytic Degradation of Rhodamine B under Visible Light Using Nanostructured Zinc

- Doped Cobalt Ferrite: Kinetics and Mechanism, *Ceramics International*, 43,1, 540–48.
- Tipler, P., 1991, *Fisika Untuk Sains dan Teknik*, Jilid 1, Edisi Ketiga, Erlangga, Jakarta.
- Utomo, J., 2017, Pengaruh Konsentrasi Co terhadap Struktur Kristal dan Sifat Magnetik Nanopartikel Co<sub>x</sub>Ni<sub>1-x</sub>Fe<sub>2</sub>O<sub>4</sub> yang Disintesis dengan Metode Kopresipitasi, *Tesis*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.
- Xiaoli, C., Haiya, L., Min, Y., Shengyu, W., Erru, N., Fanwei, Z., Chang, C., Faghong, L., dan Jianghua, Y., 2012, *Novel Superparamagnetic Iron Oxide*.
- Xu, C., 2004, *Modification of Superparamagnetic Nanoparticles for Biomedical Applications*, *Desertasi*, Brown University, Providence, Rhode Island.
- Yang, C., T. Guo, and X. Bian, *A new method to prepare water based Fe<sub>3</sub>O<sub>4</sub> ferrofluid with high stabilization*, *Physica*, A438, 560–567, 2016
- Zhao, J., Hidaka, H., Takamura, A., Pelizzetti, E., & Serpone, N., 1993, *Photodegradation of surfactants. 11. zeta-Potential measurements in the photocatalytic oxidation of surfactants in aqueous titania dispersions*, *Langmuir*, 9(7), 1646–1650.