

DAFTAR PUSTAKA

- Adriyanto, F., Santosa, U., Riyatun. 2002. *Efek Doping Boron Terhadap Sifat Optik Dan Struktur Dari Lapisan Tipis ZnO Yang Ditumbuhkan Dengan Metode Metalorganic Chemical Vapor Deposition*. P3TM-BATAN. 0216-3128.
- Bailey, S., dan Raffaele, R. 2010. Space Solar Cells and Applications, 431 – 436 dalam Fraas, L., dan Partain, L., Eds, *Solar Cells and Their Applications Second Edition*, 627 p., Wiley, New Jersey.
- Bashir, F.A., Febri, A., Hidayah, A.T., Nuraini, N.R.A., Wulandari, N. 2016. *Ekstrak Kulit Buah Manggis (Garcinia Mangostana L.) Sebagai Dye Sensitiser Alami Pada Dye Sensitized Solar Cell*. Seminar Nasional Pendidikan dan Saintek 2016. UNS Surakarta. ISSN:2557-533X.
- Bei, M.B., Rui, G., Duo, W.L., Feng, Z.Y., Tao, S.Y., Yi, G., Peng, D.H., dan Yong, Q. 2010. *Recent Progress in Interface Modification for Dye Sensitized Solar Cells*, Springer Journal Science China Reviews, **53**, Page 1669–1678.
- Chiba, Y., Islam, A., Watanabe, Y., Komiya, R., Koide, N., Han, L. 2006. *Dye-Sensitized Solar Cells with Conversion Efficiency of 11.1%*. Japanese Journal of Applied Physics Vol.45 No.25. pp 1638-1640.
- Cheng, X.L. 2004. *Zno Nano Particulate Thin Film: Preparation, Characterization And Gas-Sensing Property*. Elsevier Sensor and Actuators B 102: pp. 248-252.
- Ding, R., Xu, C., Gu, B., Shi, Z., Wang, H., Ba, L., Xiao, Z. 2010. *Effect of Mg Incorporation on Microstructure and Optical Properties of ZnO Thin Films Prepared by Sol-Gel Method*. J.Mater.Sci. Technol., 26(7) Page: 601-604
- Dominici, L., Colonna, D., D'Ercole, D., Mincuzzi, G., Riccitelli, R., Michelotti, F., Brown, T.M., Reale, A., dan Carlo, A.D. 2011. *Dye Solar Cells: Basic and Photon Management Strategies*, 279-318 dalam Kosyachenko L.A., Eds, *Solar Cells - Dye-Sensitized Devices*, 492 p., InTech Europe, Croatia.
- Durst, R.W., Wrolstad, R.E. 2005. *Characterization and Measurement of Anthocyanins by UV-visible Spectroscopy*, Handbook of Analytical Food Chemistry, pp. 33-45. New York: John Wiley & Sons.
- Ekasari, Vitriani, Yudhoyono, G. 2013. *Fabrikasi dengan Dye Ekstrak Jahe Merah (Zingiber Officianale Linn Var Rubrum) Variasi Larutan TiO₂ Nanopartikel Berfase Anatase dengan Teknik Pelapisan Spin Coating*. Jurnal Sains dan Seni POMITS 2(1): 15-20.

- Fan J.C., Ling, C.C., Xie, Z. 2011. *Fabrication and Characterization of As Doped p-Type ZnO Films Grown by Magnetron Sputtering*. Hongkong. Chapter XVI. Optoelectronics-Materials and Techniques.
- Fitriya, H., Handayani, R.D., Lesmono, A.D. 2017. *Pengaruh Lama Perendaman TiO₂ dalam Dye Sensitizer Ekstrak Daun Tembakau (Nicotiana tabalacum L) Terhadap Efisiensi Dye Sensitizer Solar Cell (DSSC)*. Jurnal Pembelajaran Fisika Vol.5 No.4 : 343-350.
- Furqoni, L., Supriyanto, A., Nurrosyid, F. 2016. *Pengaruh Tipe Screen Printing dengan Teknik Double Cycle pada Lapisan TiO₂ Sebagai Elektroda Kerja Dye Sensitized Solar Cell (DSSC)*. Jurnal Fisika dan Aplikasinya Vol. 12 No.1:17-20.
- Giri, P., Chakrabarti, P. 2016. *Effect of Mg doping in ZnO buffer layer on ZnO thin film devices for electronic applications*. ELSEVIER Superlattices and Microstructures 93(2016):248-260.
- Gratzel, M. 2004. *Conversion of Sunlight to Electric Power by Nanocrystalline Dye-Sensitized Solar Cells*. Journal of Photochemistry and Photobiology A: Chemistry. 164: 3-1.
- Gratzel, M. 2006. *Photovoltaic Performance and Long-Term Stability of Dye sensitized Meosocopic Solar Cells*. Comptes Rendus Chimie 9: 578-583 doi:10.1016/j.crci.2005.06.037.
- Huang, K., Tang, Z., Zhang, L., Yu, J., Lv, J., Liu, X., Liu, F. 2012. *Preparation and Characterization of Mg-doped ZnO Thin Films by Sol-Gel Method*. Applied Surface Science 258: 3710-3713.
- Iwantono, I., Angelina, F., Nurrahmawati, P., Naumar, F.Y., Umar, A.A. 2016. *Optimalisasi Efisiensi Dye Sensitized Solar Cells Dengan Penambahan Doping Logam Aluminium Pada Material Aktif Nanorod ZnO Menggunakan Metode Hidrotermal*. Jurnal Materi dan Energi Indonesia Vol. 06 No. 1:36-43.
- Jha, A.R. 2010. *Solar Cell Technology and Applications*, CRC Press, London, page 58-60.
- Kılınç, N., Arda, L., Öztürk, S., Öztürk, Z.Z. 2010. *Structure and Electrical Properties of Mg-doped ZnO Nanoparticles*. Cryst. Res. Technol. 45, No. 5, Page 529 – 538.
- Kittel, Charles. 1996. *Introduction to Solid State Physics 7th Edition*. John Wiley and Sons, Inc. New York.

- Lee, J.K., Yang, M. 2011. *Review Progress in Light Harvesting and Charge Injection of Dye Sensitized Solar Cells*. Elsevier Journal of Materials Science and Engineering B. **176**. Page 1142-1160.
- Maulina, A., Hardeli., Bahrizal. 2014. *Preparasi Dye Sensitized Solar Cell Menggunakan Ekstrak Antosianin Kulit Buah Manggis (Garcinia Mangostana L)*. Jurnal Saintek Vol. VI No. 2: 158-167. ISSN: 2085-8019.
- Mia, M.N.H., Pervez, M.F., Hossain, M.K., Rahman, M.R., Uddin, M.J., Mashud, M.A.A., Ghosh, H.K., Hoq, M. 2017. *Influence of Mg Content on Tailoring Optical Bandgap of Mg-doped ZnO Thin Film Prepared by Sol-gel Method*. ELSEVIER Result in Physics 7 : 2683-2691. DOI: 10.1016/j.rinp.2017.07.047.
- Munasir, Triwikantoro, Zainuri, M., Darminto. 2012. *Uji XRD dan XRF pada Bahan Mineral (Batuan dan Pasir) sebagai sumber material Cerdas (CaCO₃ dan SiO₂)*. Jurnal Penelitian Fisika dan Aplikasinya Vol.02 No.1 pp 20-29.
- Narayan, M.R. 2012. *Review Dye Sensitized Solar Cells Based on Natural Photosensitizers*. Elsevier Journal of Renewable and Sustainable Energy Reviews. **16**. 208-215.
- Ooyama, Y., dan Harima, Y. 2009. *Molecular Designs and Syntheses of Organic Dyes for Dye-Sensitized Solar Cells*. Willey Journal of Organic Chemistry. Pages 2903–2934.
- Prasatya, A.N., Susanti, D. 2013. *Pengaruh Temperatur Kalsinasi pada Kaca FTO yang di-coating ZnO terhadap Efisiensi DSSC (Dye Sensitized Solar Cell) yang Menggunakan Dye dari Buah Terung Belanda (Solanum betaceum)*. Jurnal Teknik Pomits. Vol 2, No 2.
- Priowirjanto, G. 2003. *Ilmu Bahan Listrik*. Dikmenjur. Jakarta.
- Sari, N.K., Handayani, I.P., Abrar. 2016. *Optimasi Pembuatan Sel Surya Tio₂ Dengan Metode Spin Coating Dan Perendaman Dye Buah Naga Merah*. e-Proceeding of Engineering, Vol 03. Pages 2100. ISSN: 2355-9365.
- Shi, Q., Zhang, J., Zhang, D., Wang, C., Yang, B., Zhang, B., Wang, W. 2012. *Red Luminescent and Structural Properties of Mg-doped ZnO phosphors prepared by Sol-Gel Method*. Journal Material Science and Engineering B 177 Page: 689-693.
- Siregar, N., Marlianto, E., Saharman, G., Motlan. 2015. *The Effect of Concentration of Structure and Optical Properties of Thin Films Synthesized by Sol-Gel Methods Spin Coating*. International Journal of Sciences: Basic and Applied Research (IJSBAR) Volume 22, No 1 pp 428-434. ISSN: 2307-4531.

- Smestad, G. P., Gratzel, M. 1998. *Demonstrating Electron Transfer and Nanotechnology: A Natural Dye-Sensitized Nanocrystalline Energy Converter*. J. Chem. Educ. 75: 725-756.
- Sugiyono, A., Anindhita, Boedoyo, M.S., Adiarso. 2014. *Outlook Energi Indonesia 2014 (Indonesia Energi Outlook 2014): Pengembangan Energi Mendukung Program Substitusi BBM*. Jakarta: Badan Pengkajian dan Penerapan Teknologi (BPPT). hal: 16-26.
- Sujana, M.G., Chattopadhyay, K.K. dan Anand, S. 2008. *Characterization and Optical Properties of Nano-Ceria Synthesized by Surfactant-Mediated Precipitation Technique in Mixed Solvent System*. Applied Surface Science 254. pp. 7405–7409.
- Sujatno, A., Salam, R., Bandriyana, Dimiyati, A. 2015. *Studi Scanning Electron Microscopy (SEM) Untuk Karakterisasi Proses Oksidasi Paduan Zirkonium*. Jurnal Forum Nuklir Vol.9 No.1 pp.44-50
- Supriyanto, A., Prasada, A.B., Cari, Fadli, U.M. 2016. *Identifikasi dan Karakterisasi Ekstrak Ketan Hitam (Oriza Sativa Glutinosa) sebagai Fotosensitizer dalam Pembuatan Dye Sensitized Solar Cells (DSSC)*. Jurnal ILMU DASAR Vol.17 No. 1. Hal: 1-8.
- Sun, Y. 2009. *Sensitizer Molecule Engineering*, Disertasi Program Doktor Philosophy, Bowling Green State University, 7 – 10.
- Sutanto, H., Nurhasanah, I., dan Hidayanto, E., 2015, *Deposition of Ag 2~6 mol%-doped ZnO Photocatalyst Thin Films By Thermal Spray Coating Method for E.coli Bacteria Degradation*, Materials Science Forum, Vol. 827, hal. 3-6.
- Tsay, C.Y., Wang, M.C., Chiang, S.C. 2008. *Effect of Mg Additions on Microstructure and Optical Properties of Sol-Gel Derived ZnO Thin Films*. Materials Transactions Vol.49 No.5 : pp 1186-1191.
- Vijay, S.R., Rajput, J.K., Pathak, T.K., Purohit, L.P. 2018. *Multilayer MgZnO/ZnO thin film for UV photodetectors*. Journal Of Alloy and Compounds Page: 1-20
- Wongcharee, K., Meeyooa, V., dan Chavadej, S. 2007. *Dye-Sensitized Solar Cell using Natural Dyes Extracted from Rosella and Blue Pea Flowers*. Elsevier Journal of Solar Energy Materials and Solar Cells. 91. 566–571.

- Yudiartono, Anindhita, Sugiyono, A., Wahid, L.M.A., Adiarso. 2018. *Outlook Energi Indonesia 2018 : Energi Berkelanjutan untuk Transportasi Darat*. Jakarta : Badan Pengkajian dan Penerapan Teknologi (BPPT). Hal: 39-44 ISBN 978-602-1328-05-7.
- Yun, S., Lee, J., Yang, J. & Lim, S. 2010. *Hydrothermal Synthesis Of Al Doped ZnO Nanorod Arrays On Si Substrate*. *Physic B: Condensed Matter* 405(1): 413-419.
- Zhou, H., Wu, L., Yurong, G., Tingli, M. 2011. *Dye Sensitized Solar Cell Using 20 Natural Dyes as Sensitizers*, *Journal of Photochemistry and Photobiology A: Chemistry* Vol. 219: 188-194.

