

DAFTAR PUSTAKA

- [1] A. Pratiwi L, Pengaruh Konsentrasi Ekstrak Antosianin Kulit Manggis sebagai Dye-Sensitized terhadap Efisiensi Sel Surya jenis DSSC(Dye-Sensitized Solar Cell), Semarang: Universitas Diponegoro, 2010.
- [2] M. Grätzel and B. O'Regan, "'A Low-Cost, High-Efficiency Solar Cell Based on Dyesensitized Colloidal TiO₂ Films",' in *Nature*, 1991, pp. 353, 737740..
- [3] Khaldun, S. A, K. Omar dan Z. Hasan, "'Effective Conversion Efficiency Enhancement of Solar Cell Using ZnO/PS Anti Reflection Coating Layers",' *Solar Energy*, pp. 86, 541-547, 2012.
- [4] B. Richards, "'Single-material TiO₂ double-layer,'" *Solar Energy Materials & Solar Cells*, p. 79, 2002.
- [5] A. Suhandi dan F. C. Wibowo, "'Simulasi Perhitungan Refleksi Cahaya oleh Permukaan Sel Surya Silikon : Studi Pengaruh Penambahan Lapisan,'" *Jurnal Fisika*, vol. 3 No. 1, p. 56, 2013.
- [6] Vallejo B et, "'Characterization of TiO₂ Deposited on Textured Silikon Water by Atmospheric Pressure Chemical Vapor Deposition",' *Solar Energy Material and Solar Cells*, pp. 86, 299-308, 2005.
- [7] Q. Luo, X. Deng, C. Zhang, M. Yu, X. Zhou, Z. Wang, X. Chen and S. Huang, "'Enhancing photovoltaic performance of perovskite solar cell with silica nanosphere antireflection Coatings",' *Solar Energy*, pp. 128-135, 2018.
- [8] K. Ali, S. A. Khan dan M. Z. Mat Jafri, "'Effect of Double Layer (SiO₂/TiO₂) Anti-reflective Coating on Silicon Solar Cells,'" *International Journal of Electrochemical Science*, 2014.
- [9] I. R. Duran dan G. Laroch, "'Current trends, challenges, and perspectives of anti-fogging technology: Surface and material design, fabrication strategies, and beyon,'" *Progress in Materials Science*, pp. 106-186, 2019.
- [10] M. Faustini , L. Nicole, C. Boissiere, P. Innocenzi, C. Sanchez and D. Grosso, "'Hydrophobic, Antireflective, Self-Cleaning, and Antifogging Sol-Gel Coatings: An Example of Multifunctional Nanostructured Materials for

- Photovoltaic Cells," Vols. 4406-4413, p. 22, 2010.
- [11] D. Chen, "“Anti Reflection (AR) Coatings Made by Sol-gel Process : A Review”," *Solar Energy Materials and Solar Cells*, pp. 68, 313-336., 2001.
- [12] H. Hovel J, "“TiO₂ Antireflection Coatings by a Low Temperature Spray Process”," *Electrochem Soc.: Solid-State Science and Technology*, pp. 125, 983-985, 1978.
- [13] L, Sopori B dan A, Pryor R, "“Design of Antireflection by Coating for Textured Silicon Solar Cells”," *Solar Cells*, vol. 8, pp. 249-261, 1983.
- [14] M. Gratzel, "Review Dye-sensitized Solar Cell," *Journal of Photochemistry and Photobiology*, pp. 145-153, 2003.
- [15] H. Aliah dan P. Pitriana, "Potensi Aplikasi Bayam Merah dan Jahe Merah sebagai Dye pada Sel Surya Berbasis Dye(DSSC)," UIN Sunan Gunung Djati, Bandung, 2016.
- [16] K, Sari N, P, Handayani L dan Abrar, "Optimasi Pembuatan Sel Surya TiO₂ dengan Metode spin Coating dan Perendaman dye Buah Naga Merah.," *E-Proceeding of Engineering*, vol. vol.3, pp. 2100-2107, 2016.
- [17] Setiawan, dkk, "Sel Surya Berbasis Pewarna Alami dan Potensi Pengembangan di Indonesia sebagai Sumber Energi Alternatif yang Ramah Lingkungan," UU, Bali, 2015.
- [18] S. Ito, T. N. Murakami, P. Comte, P. Liska, C. Grätzel dan M. K. & G. M. Nazeeruddin, "Fabrication of Thin Film Dye Sensitized Solar Cells With Solar to Electric Power Conversion Efficiency over 10%," *Thin Solid Films*, Vol. %1 dari %2516, No 14, (May 2008), no. ISSN 0040-6090, pp. 4613-4619, 2008.
- [19] S, Wilman, "Pembuatan Prototipe Solar Cell Murah dengan Bahan Organik-Inorganik (Dye-Sensitized Solar Cell).," Institut Teknologi Bandung, Bandung, 2007.
- [20] L, Latifa H; A, Tri; Y, Akhmad H dan Firdiyono, "Pengaruh Pencampuran dan Rasio Dopan/Prekursor dalam Pembuatan Lapisan Tipis Fluorine Doped Tin Oxide (FTO) Berbasis Timah (II) Klorida.," *Majalah Metalurgi*, Vol. %1

dari %230, 105-114., 2015.

- [21] Y, Qin dan Q, Peng, “Ruthenium Sensitizers and Their Applications in Dye-Sensitized Solar Cells,” *International Journal of Photoenergy*, no. doi:10.1155/2012/291579, p. 1–21, 2012.
- [22] “Ossila,” enabling materials science, 2019. [Online]. Available: <https://www.ossila.com/products/z907-dye>.
- [23] Istiqomah, M. A. Rokhmat dan N. M. Nursam, “Optimasi Dye Sensitized Solar Cell (DSSC) Berbasis Titanium Dioksida dengan Konfigurasi Tipe Monolitik,” *E-Proceeding of Engineering*, vol. 4, no. 2158-2165, 2017.
- [24] L, Retnaningsih, L, Muliani dan N, Anggraini P, ““Analisis Hasil Sintesis TiO₂/ZnO Sebagai Lapisan Elektroda untuk Aplikasi Dye-sensitized Solar”,” *Jurnal Elektronika dan Telekomunikasi (JET)*, vol. 15, no. 2, pp. 55-59, 2015.
- [25] A. D Wobowo, “Modifikasi permukaan Semikonduktor Lapis Tipis Grafit/Komposit TiO₂-SiO₂ Dengan Penempelan Logam Tembaga (Cu) Secara Elektrodeposisi.” Skripsi. Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Sebelas Maret, Surakarta., 2006..
- [26] Khrairurrijal dan M. Abdullah'a, “Review: Karakterisasi Nanomaterial,” *Jurnal Nanosains & Nanoteknologi*, vol. 2 No.1, 2008.
- [27] A. Mikrajuddin, “Karakterisasi Nanomaterial,” FMIPA-ITB, Bandung, 2010.
- [28] H. Aliah dan P. Pitriana, “OTENSI APLIKASI BAYAM MERAH DAN JAHE MERAH SEBAGAI DYE PADA SEL SURYA BERBASIS DYE (DSSC),” Lembaga Penelitian dan Pengabdian kepada Masyarakat UIN Sunan Gunung Djati Bandung, Bandung, 2016.
- [29] R. Andari, “Sintesis dan Karakterisasi Dye Sensitized Solar cell (DSSC) dengan Sensitizer Antosianin Dari bunga Rosella (*Hibiscus Sabdariffa*),” *JIIF (Jurnal Ilmu dan Inovasi Fisika)*, Vol. 1 dari 201, No. 02 , pp. 140-150, 2017.
- [30] Supranto, *Teknologi Tenaga Surya*, Yogyakarta: Global Pustaka Utama, 2015, pp. 32-36.

- [31] A. Sustia, D. D. Risanti dan D. Sawitri, "Fabrikasi Dye Sensitized Solar Cell (DSSC)," *Jurnal Teknik Pomits*, Vol. %1 dari %22, No 2., 2013.
- [32] S. R dan R. A. H, "Sintesa Titanium Dioxide (TiO₂) untuk Dye Sensitized Solar cell (DSSC)," UNS, 2012.
- [33] J. T. Park, J. H. Km dan D. Lae, "Excellent Anti-Fogging Dye-Sensitized Solar Cell based on superhydrophilic nanoparticle coatings," *Nanoscale*, 2014.
- [34] A. Hasiholan T, "Penambahan Blocking Layer Pada Fabrikasi Modul Dye Sensitized Solar Cell(DSSC) 7 Sel Terinterkoneksi Seri Tipe Z," Bandung, 2019.
- [35] S. Vicente G, A, Morales dan T, Gutierrez M, "Preparation and Characterization of Sol-gel TiO₂ Antireflective Coatings for Siicon," *Thin Solid Films*, pp. 133-137, 391, 2001.
- [36] Strong dan Steven, J, "The Solar Electric House, A Design Manual for Home-Scale Photovoltaic Power Systems," *Pennsylvania, Rodale Press*, 1987.
- [37] RH, MUS, dan MS, "Teori Konversi Energi pada Dye Sensitized Solar Cell (DSSC)," Learn Solar, 11 September 2017. [Online]. [Diakses 11 September 2017].
- [38] Khaldun, Salman A, Khalid Omar dan Z, Hasan, "'Effective Conversion Efficiency Enhancement of Solar Cell Using ZnO/PS Anti Reflection Coating Layers'," *Solar Energy*, pp. 86, 541-547, 2012.
- [39] F. M. Agustinus dan N. R. Poespawati, "Fabrikasi dan Aanalisis Sel Surya Tersensitasi Dye Berbasis TiO₂ dengan Pengaruh Ekstrak Daun Bayam Merah sebagai Dye Alami," Departemen Teknik Eelktro, Universitas Indonesia, Depok, 2013.
- [40] M, Alam, H, Khan dan I, Abu S, "An Efficient Power Electronics Solution for Lateral Multi-Junction Solar Cell Systems," *Salt Lake City : Univ. of Utah*, pp. 73-78, 2011.
- [41] S. A. Pataya, P. L. Gareso dan E. Juarlin, "Karateristik lapisan tipis Titanium

Dioksida(TiO_2) yang ditumbuhkan dengan metode spin coating diatas substrat kaca,” Jurusan Fisika, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Hasanuddin, 2016.

- [42] K, Jin, “"Trends of Research and Development of Dye-Sensitized Solar Cell",” *SCIENCE & TECHNOLOGY TRENDS.*, p. 71, 2010.
- [43] C, Petir J, “Simple Measurement of the Band Gap in Silicon and Germanium.,” *American Journal of Physics*, pp. 48(3), 197-199, 1980.
- [44] A, Zamrani R dan P, Gotjang, “Pembuatan dan Karakterisasi Prorotipe Dye Sensitized Solar Cell (DSSC) menggunakan Ekstrasi kulit Buah Manggis Sebagai Dye Sensitized Dengan Metoda Doctor Blade,” *Jurnal Sains dan Seni POMITS*, Vol. 1 dari 2 Vol.1, No.2, pp. 2301-928x, 2013.