

## DAFTAR PUSTAKA

- Al-Ibrahim, M., Roth, H K., Schroedner, M., Konkin, A., Zhokhavets, U., Gobsch, G., Scharff, P. & Sensfuss, S. (2005). The influence of optoelectronic properties of poly(3-alkylthiophenes) on the devices parameters in flexible polymer solar cells. *Organic Electronics 6*, 65-77.
- Beek, W J E., Wienk, M M., & Janssen, R A J. (2004). Efficient Hybrid Solar Cells from Zinc Oxide Nanoparticles and a Conjugated Polymer. *Advanced Materials 16 No 12*, 1009-1013.
- Beek, W J E., Wienk, M M., & Janssen, R A J. (2005). Hybrid polymer solar cells based on zinc oxide. *Journal of Materials Chemistry 15*, 2985-2988.
- Beek, W J E., Wienk, M M., Kemerink, M., Yang, X., & Janssen, R A J.. (2005). Hybrid Zinc Oxide conjugated polymer bulk heterojunction solar cells. *Journal Physisc Chemistry B 109* , 9505-9516.
- Beiser, A. (1987). *Konsep Fisika Modern* (Alih Bahasa The Houw Liong). Jakarta: Erlangga.
- Bundgaard, E., & Krebs, F C. (2007). Low band gap polymers for organic photovoltaics. *Solar Energy Materials & Solar Cells 91*, 954-985.
- Cai, W., Gong, X., & Cao, Y. (2010). Polymer solar cell : Recent development and possible routes for improvement in the performance. *Solar Enegy Matreials & Solar cells 94*, 114-127.
- Chandrasekaran, J., Nithyaprakash, D., Ajjan, K B., Maruthamuthu, S., Manoharan, D., & Kumar, S. (2011). Hybrid solar cell based on blending of organic and inorganic materials-an overview. *Renewable and Sustaninable Energy Reviews 15*, 1228-1238.
- Das, N C., Biswas, S., & Sokol, P E. (2011). the photovoltaic performance of ZnO nanorods in bulk heterojunction solar cells. *Journal of Renewable and Sustainable Energy 3*, 1-7.
- Ferreira, S R., Davis, R J., Lee, Y., Lu, P., & Hsu, J W P. (2011). Effect of devices architecture on hybrid zinc oxide nanoparticle: poly (3-hexylthiophene) blend solar cell performance and stability. *Organic Electronic 12*, 1258-1263.
- Fitriawati., Abdussalam, W., Syamsiar, Y S., & Susilawati, T. (2008). Pengaruh Dopan pada sifat optik poly (heksil thiophene). *Jurnal Fisika dan Aplikasinya vol 1 no 1*, 1-4.
- Gunes, S., Neugebauer, H., & Sariciftci, N S. (2007). Conjugated polymer based organic solar cells. *Chemistry Review 107*, 1324-1338.

- Huynh, W U., Dittmer, J J., & Alivisatos, A P. (2002). Hybrid nanorod-polymer solar cells. *Science vol 295*, 2425-2427.
- Janotti, A., & Walle, C G V (2009). Fundamentals of zinc oxide as a semiconductor. *Reports on progress in physics* 72, 1-29.
- Ji, L W., Shih, W S., Fang, T H., Wu, C Z., Peng, SM., & Meen, T H. (2007). Preparation and characteristics of hybrid ZnO-polymer solar cells. *Jurnal Material Sciences* 45, 3266-3269.
- Kittel, C. (2005). *Introduction to Solid State Physics 8th edition*. New York:Wiley.
- Krebs, F. (2009). Polymer solar cell modules prepared using roll-to-roll methods: knife-over-edge coating, slot-die coating and screen printing. *Solar Energy Materials & Solar Cells* 93, 465-475.
- Kwok, K Ng. (1994). *Complete Guide To Semiconductor Devices* (Second Edition). New Jersey: McGraw-Hill, Inc.
- Li, F., Du, Y., & Chen, Y. (2012). Hybrid bulk heterojunction solar cells based on poly(3-hexylthiophene) and ZnO nanoparticles modified by side-chain functional polythiophenes. *Thin Solid Films* 526, 120-126.
- Liao, K., Yambem, S D., Haldar, A., Alley, N J., & Curran, S A. (2010). Designs and Architectures for the Next Generation of Organic Solar Cells. *Energies* 3, 1212-1250.
- Liu, J., Qu, S., Xu, Y., Chen, Y., Zeng, X., Wang, Z., Zhou, H., & Wang, Z. (2007). Photovoltaic and electroluminescence character in hybrid ZnO and conjugated polymer bulk heterojunction devices. *China Physics Letter vol 24*, 1350-1353.
- Lund, J., Roge, R., Petersen, R., & Larsen, T. (2006). *Polymer solar cells*. Aalborg University:tidak diterbitkan.
- Mayer, A C., Scully, S R., Hardin, B E., Rowell, M W., & McGehee, M D. (2007). Polymer based solar cells. *Material Today volume 10 nomor 11*, 28-33.
- Moet, D J D., Koster, J A., Boer, B., & Blom, P W M. (2007). Hybrid polymer solar cells from highly reactive diethylzinc: MDMO-PPV versus P3HT. *Chemistry Materials* 19, 5856-5861.
- Montibon, E., Lestelius, M., & Jarnstrom, L. (2009). Preparation of electroconductive paper by coating blends of PEDOT:PSS and Organic Solvent. *TAPPI Paper Con'09 Conference*, 1-3.
- Moule, A J., Bonekamp, J B., & Maerholz, K. (2006). the effect of active layer thickness and composition on the performance of bulk heterojunction solar cells. *Journal of Applied Physics* 100, 1-7.
- Nath, I. (2010). Cleaning Up After Clean Energy: Hazardous Waste in the Solar Industry. *Stanford Journal of International Vol. XI*, 1-9.

- Nielsen, T. D., Cruickshank, C., Soren, F., Thorsen, J., & Krebs, F C. (2010). Business, market and intellectual property analysis of polymer solar cells', *Solar Energy Materials & Solar Cells* 94, 1553–1571.
- Niemann, J. (2004). *Understanding Solar Cell Physics : Key to Better Testing Methodology*. Online, Tersedia: HYPERLINK "http://www.keithley.com/data?asset=15891"  
<http://www.keithley.com/data?asset=15891> [18 Desember 2012]
- Oosterhout, S. D. (2011). *Thesis :Hybrid Polymer Solar cells Based on ZnO*. Eindhoven: Tidak diterbitkan.
- Quist, P A C., Beek, W J E., Wienk, M M., Janssen, R A., Savenije, T J., & Siebbeles, L D A. (2006). Photogeneration and decay of charge carriers in hybrid bulk heterojunction of ZnO nanoparticles and conjugated polymers. *Journal Physics Chemistry* 110, 10315-10321.
- Rockett, A. (2007). *The Materials Science of Semiconductor*. Illinois: Springer.
- Saunders, B R., & Turner, M L. (2008). Nanoparticle–polymer photovoltaic cells. *Advances in Colloid and Interface Science* 138, 1–23.
- Saunders, B R. (2012). Hybrid nanoparticle/polymer solar cell : preparation, principles, and challenges. *Journal of Colloid and Interface Science* 369, 1–15.
- Scharber, M C., Muhlbacher, D., Koppe, M., Denk, P., Waldauf, C., Heeger, A J., & Brabec, C J. (2006). Design rules for donors in bulk-heterojunction solar cells—towards 10% energy-conversion efficiency. *Journal Advanced Materials* 18, 789–794.
- Shao, S., Liu, F., Xie, Z., & Wang, L. (2010). High-efficiency hybrid polymer solar cells with inorganic P- and N-type semiconductor nanocrystals to collect photogenerated charges. *Journal Physics Chemistry* 114, 9161-9166.
- Shrotriya, V., Ouyang, J., tseng, R J., Li, G., & Yang, Y. (2005). Absorption spectra modification in Poly(3-hexylthiophene):methanofullerene blend thin films. *Chemical Physics Letters* 411, 138–143.
- Skompska, M. (2010). Hybrid conjugated polymer/semiconductor photovoltaic cells. *Synthetic Metals* 160 , 1–15.
- Slooff, L H., Wienk, M M., & Kroon, J M. (2004). Hybrid TiO<sub>2</sub>:polymer photovoltaic cells made from a titanium oxide. *Thin Solid Films* 451 –452, 634–638.
- Suresh, P., Balaraju, P., Sharma, S K., Roy, M S., & Sharma, G D. (2008). Photovoltaic devices based on PPHT: ZnO and dye-sensitized PPHT. *Solar Energy Materials & Solar Cells* 92, 900-908.

- Vandewal, K., Goris, L., Haeldermans, I., Nesladek, M., Haenen, K., & Wagner, P. (2008). Fourier-transform photocurrent spectroscopy for a fast and highly sensitive spectral characterization of organic and hybrid solar cells. *Thin Solid Films* 516, 7135-7138
- Wright, M., & Uddin, A. (2012). Organic-inorganic hybrid solar cells: A comparative review. *Solar Energy Materials & Solar Cells* 107, 87–111.

