

DAFTAR PUSTAKA

- Agus, J., 2016, *Kajian Sifat Optik pada Lapisan Tipis Reduced Graphene Oxide-PCBM (Fenil-C16-Butiryc Acid Methyl Ester)*, Tesis, Program Studi Ilmu Fisika, Universitas Gadjah Mada, Yogyakarta.
- Ashcroft, N.W. and Mermin, N.D, 1976, *Solid State Physics*, Harcourt, Inct., USA.
- Brabec, C.J., Zerza, G., Cerullo, G., De silvestri, S., Luzzati, S., Hummelen, J.C. and Sariciftci N.S., 2001, Tracing photoinduced electron transfer process in conjugated polymer/fullerene bulk heterojunction in real time, *Chem Phys* ,340,232-6.
- Chen, J., Yao, B., Li, C. and Shi, G., 2013, An Improved Hummers Method for Eco-friendly Synthesis of Graphene Oxide, *Science*, 64, 225-229.
- Cook, S., Katoh, R. and furube, A., 2009 Ultrafast studies of charge generation in PCBM:P3HT blen films following excitation of the fullerene PCBM, *J. phys., Chem, C* ,113,2547-52.
- Deibel, C. and Dyakonov., 2010, Polymer-fullerene bulk heterojunction solar cell, *Rep. prog. phys.*, ;73, 096401/1-39.
- Dreyer, D. R., Park, S., Bielawski, C. W. and Ruoff, R. S. (2010). The chemistry of graphene oxide, *Chem. Soc. Rev.*, 39(1), 228–240.
- Fox, M., 2001, *Optical Properties of Solids*, Oxford University Press, New York.
- Fujiwara, H., 2003, *Spectroscopy Ellipsometry Principle and Application*, Maruzen, Co, ltd, Tokyo, Japan.
- Fujiwara, H., 2007 *Spectroscopic Ellipsometry Principles and Applications*. John Wiley and Sons, Ltd, UK.
- Geim,A.K. and Novoselov,K.S., 2007, The rise of graphene, *Nature Materials* 6, 1-14.
- Heeger, A.j., Sarciftci, N.S. and Namdas, E,B., 2010, *Semiconducting and metallic polymers*, Oxford UK: Oxford University Press; 278 pp.
- Huang, Y.Y. and Chou, K.S., 2003, Studies on The Spin Coating Process of Silica Films, *Ceramics International* 29, 485–493.

- Hummelen, J.C., G. Yu, J., Gao, F., Wudl, A.J. and Heeger, 1995, Polymer Photovoltaic Cells: Enhanced Efficiencies via a Network of Internal Donor-Acceptor Heterojunctions, *SCIENCE*, 270.
- Hummers, W.S. and Offeman, R.E., 1958, Preparation of Graphitic Oxide, *J. Am. Chem. Soc.*, 80, 1339.
- Katsnelson, M. I., 2012, *Graphene: Carbon in Two Dimension*, Cambridge University Press, United Kingdom.
- Kuzmenko, A.B., van Heumen, E., Carbone, F., and van der Marel, D., 2008, Universal Dynamical Conductance in Graphite, *Physical Review Letters*, 100, 117401.
- Lai, Q., Zhu, S., Luo, X., Zou, M. and Huang, S., 2012, *Ultraviolet-Visible Spectroscopy of Graphene Oxides*, *AIP Advance* 2, 032146.
- Lei, Z., Lu, L. and Zhao, X.S., 2012, The Electrocapacitive Properties of Graphene Oxide Reduced by Urea, *Energy Environ. Sci.*, 5, 6391-6399.
- Lui, C.H., Liu, L., Mak, K.L., Flynn, G.W. and Heinz, T.F., 2009, Ultraflat Graphene, *Nature*, 462 (7271), 339-341.
- Matsumoto, F., Kazuyuki, Mo., Yuko, T. and Thoshinobu O., 2008, Synthesis of Thi-enyl Analogues of PCBM and Investigation of Morphology of Mixtures in P3HT, *Beilstein journal of Organic Chemistry*, 4, 33.
- Mikhnenko, O.V., Azimi, H., Scharber, M.C., Morana, M., Blom, P. W. M. and Loi, M.A., 2012, Exciton Diffusion Length in Narrow Bandgap Polymers, *Energy Environ Sci*, 5, 6960-5.
- Nair, R.R., Blake, P., Grigorenko, A.N., Novoselov, K.S., Booth, T.J., Stauber, T., Peres, N.M.R. and Geim, A.K., 2009, Fine Structure Constant Defines Visual Transparency of Graphene, *Science*, 320, 1308.
- Neto A. H. Castro, F. Guinea, N. M. R. Peres, K. S. Novoselov and A. K. Geim. 2009. The electronic properties of graphene. *REVIEWS OF MODERN PHYSICS*, 81.
- Novoselov, K. S., Geim, A. K., Morozov, S. V., Jiang, D., Katsnelson, M.I.V. 2004. Electric Field Effect in Atomically Thin Carbon Films. *Science*, 306, 666.

- Potter, R. F., 1965, Reflectometer for Determining Optical Constants, *Applied Optics*, 4,53-57.
- Ray, S.C., 2015, *Applications of Graphene and Graphene-Oxide Based Nanomaterial*, Elsevier, Oxford.
- Raza, H., 2012, *Graphene Nanoelectronic: Metrology, Synthesis, Properties and Application*, Springer, New York.
- Roco, M. C., Mirkin, C. A. and Hersam, M. C., 2011, Nanotechnology Research Directions for Societal Needs in 2020: Summary of International Study, *J. Nanopart. Res.*
- Santoso, I., Gogoi, P.K., Su, H.B., Huang, H., Lu, Y., Qi, D., Chen, W., Majidi, M.A., Feng, Y.P., Wee, A.T.S., Loh, K.P. Venkatesan, T., Saichu, R.P. dan Goos, A., 2011, Observation of Room-Temperature High-Energy Resonant Excitonic Effect of Graphene, *Physics Review B*, 84081403R.
- Sariciftci, N.S., Smilowitz, L., Heeger, A.j. and Wudl F., Photoinduced Electron-Transfer from a Conducting Polymer to Buckminsterfullerene, *Science*; 258:1474-6.
- Scharber, M.C. dan Sariciftci, N.S., 2013, Efficiency of Bulk-Heterojunction Organic Solar Cells, *prog. polym. sci.*, 1(1),1929-1940.
- Schniepp, H.C., Li, J.L., McAllister, M.J., Sai, H., Herrera-Alonso, M., Adamson, D.H., Prud'homme, R.K., Car, R., Saville, D.A., dan Aksay, I.A., 2006, Functionalized Single Graphene Sheets Derived from Splitting Graphite Oxide, *J. Phy. Chem. B*, 110 (17), 8535-8539.
- Service, R.,2011, Outlook Brightnes for Plastic Solar Cell, *Science*,332,293.
- Simmons, J.H., dan Potter, K.S., 2000, *Optical Materials*, Academic Press, London.
- Shaheen, S.E., Brabec, C.j. and saricift N.S., 2001, Efficient Organic Plastic Solar Cells, *Appl. Phys. Lett.*, 78:841-3.
- Sloof, L. H., Veenstra, S. C. Eerenstein, W., 2007, Optical Modelling: A powerful Tool in The Analysis of Highly Efficient Polymer Solar Cells.

- Stergiou, A., Pagona, G. dan Tagmatargis, N., 2014, Donor-Acceptor GrapheneBased Hybrid materials Facilitating Photo-Induced Electron-Transfer Reaction, *Beilstein. Jur. Nanotech.*, 5, 2580-1589.
- Suhendar, H., 2016, Sintesis Reduced Graphene Oxide dan Aplikasinya pada Kinerja Superkapasitor, *Skripsi*, Departemen Fisika UGM, Yogyakarta.
- Tompkins, H.G. and Irene, E.A., 2005, *Handbook of Ellipsometry*, William Andrew, New York.
- Watkins, P.K., Walker, A.B., Verschoor, G.B., 2005, Dynamical Monte Carlo Modelling of Organic Solar cell: the Dependence of Internal Quantum Efficiency on Morphology. *Nano Lett*, 5, 1814-8.
- Widianto, E., 2015, *Kajian Sifat Optik Nanofiber Reduced Graphene Oxide/Poly (3,4-Ethylenedioxytriophene):Poly (Styrene Sulfonate)(PEDOT:PSS) Hasil Electrospinning*, Tesis, Program Studi Ilmu Fisika, Universitas Gadjah Mada, Yogyakarta.
- Yang, L., Deslippe, J., Park, C.H., Cohen, M.L., dan Louie, S.G., 2009, Excitonic Effect on the Optical Response of Graphene and Bilayer Graphene, *Phys. Rev. Lett.*, 103, 186802.
- Yang, G., Zhang, Y. dan Yan, X., 2013, Electronic Structure and Optical Properties of a New Type of Semiconductor Material: Graphene Monoxide. *Journal of Semiconductor*, 34, 8, 1-5.
- Yu, G., Gao, J., Hummelen, J.C., Wudl, F., Heeger, A.J., 1995, Polymer Photovoltaic Cell-Enhanced Efficiencies via a Network of Internal Donor-Acceptor Heterojunction. *Science*, 70, 1789-91.
- Yu, W., Shi, W., Xiang, F. X., Barbaros, O., dan Ping, K. L., 2011, Interface Engineering of Layer by Layer Stacked Graphene Anodes for High Performance Organic Solar Cells. *Advanced Matters*, xx, 1-53.
- Zabihi, F., Chen, Q., Xie, Y., dan Eslamian, M., 2016, Fabrication of Efficient Graphene-Doped Polymer/Fullerene Bilayer Organic Solar Cell in Air Using Spin Coating Followed by Ultrasonic Vibration Post Treatment, *Science*, 100, 1177-1192.