# DAFTAR PUSTAKA

Bhardwaj, N., & Kundu, S. C. (2010). Electrospinning: A fascinating fiber fabrication technique. *Biotechnology Advances*, *28*(3), 325–347. http://doi.org/10.1016/j.biotechadv.2010.01.004

Cho, D., Hoepker, N., & Frey, M. W. (2012). Fabrication and characterization of conducting polyvinyl alcohol nanofibers. *Materials Letters*, *68*, 293–295. http://doi.org/10.1016/j.matlet.2011.10.109

Gaaz, T., Sulong, A., Akhtar, M., Kadhum, A., Mohamad, A., & Al-Amiery, A. (2015). Properties and Applications of Polyvinyl Alcohol, Halloysite Nanotubes and Their Nanocomposites. *Molecules*, *20*(12), 22833–22847. http://doi.org/10.3390/molecules201219884

Hallaji, H., Keshtkar, A. R., & Moosavian, M. A. (2015). A novel electrospun PVA/ZnO nanofiber adsorbent for U(VI), Cu(II) and Ni(II) removal from aqueous solution. *Journal of the Taiwan Institute of Chemical Engineers*, *46*, 109–118. http://doi.org/10.1016/j.jtice.2014.09.007

Hassan, C. M., & Peppas, N. a. (2000). Structure and Applications of Poly ( vinyl alcohol ) Hydrogels Produced by Conventional Crosslinking or by Freezing / Thawing Methods. *Adv. Polym. Sci.*, *153*, 37–65. http://doi.org/10.1007/3-540-46414-X_2

Hirankumar, G., Selvasekarapandian, S., Kuwata, N., Kawamura, J., & Hattori, T. (2005). Thermal, electrical and optical studies on the poly(vinyl alcohol) based polymer electrolytes. *Journal of Power Sources*, *144*(1), 262–267. http://doi.org/10.1016/j.jpowsour.2004.12.019

Huang, Z. M., Zhang, Y. Z., Kotaki, M., & Ramakrishna, S. (2003). A review on polymer nanofibers by electrospinning and their applications in nanocomposites. *Composites Science and Technology*, *63*(15), 2223–2253. http://doi.org/10.1016/S0266-3538(03)00178-7

Jia, Y. T., Gong, J., Gu, X. H., Kim, H. Y., Dong, J., & Shen, X. Y. (2007). Fabrication and characterization of poly (vinyl alcohol)/chitosan blend nanofibers produced by electrospinning method. *Carbohydrate Polymers*, *67*(3), 403–409. http://doi.org/10.1016/j.carbpol.2006.06.010

Jin, W.-J., Jeon, H. J., Kim, J. H., & Youk, J. H. (2007). A study on the preparation of poly(vinyl alcohol) nanofibers containing silver nanoparticles. *Synthetic Metals*, *157*(10-12), 454–459. http://doi.org/10.1016/j.synthmet.2007.05.011

Kameoka, J., & Craighead, H. G. (2003). Fabrication of oriented polymeric nanofibers on planar surfaces by electrospinning. *Applied Physics Letters*, *83*(2), 371–373.

http://doi.org/10.1063/1.1592638

Li, D., & Xia, Y. (2003). Fabrication of titania nanofibers by electrospinning. *Nano Letters*, *3*(4), 555–560. http://doi.org/10.1021/nl034039o

Liu, N., Fang, G., Wan, J., Zhou, H., Long, H., & Zhao, X. (2011). Electrospun PEDOT:PSS–PVA nanofiber based ultrahigh-strain sensors with controllable electrical conductivity. *Journal of Materials Chemistry*, *21*(47), 18962. http://doi.org/10.1039/c1jm14491j

Mohan, V. M., Qiu, W., Shen, J., & Chen, W. (2010). Electrical properties of poly(vinyl alcohol) (PVA) based on LiFePO 4 complex polymer electrolyte films. *Journal of Polymer Research*, *17*(1), 143–150. http://doi.org/10.1007/s10965-009-9300-0

Patachia, S., Valente, A. J. M., Papancea A., & Lobo, V. M. M. (2009). *Poly (Vinyl Alcohol)[Pva]- Based Polymer Membranes*. Nova Science Publisher Inc., New York.

Rahmat, S. F. U. (2008). P*olimer*. Departemen Metalurgi dan Material Fakultas Teknik Universitas Indonesia. Depok.

Rianjanu, A. (2015). Karakterisasi Nanofiber Pedot:Pss/Pva Yang Berpotensi Digunakan Sebagai Lapisan Penyangga Pada Sel Surya Organik Bulk-Heterojunction Menggunakan Metode Elektrospinning, *Skripsi,* Fakultas Matematika dan Ilmu Pengetahuan Alam, Yogyakarta.

Saghaei, J., Fallahzadeh, A., & Saghaei, T. (2015). ITO-free organic solar cells using highly conductive phenol-treated PEDOT:PSS anodes. *Organic Electronics*, *24*(0), 188–194. http://doi.org/http://dx.doi.org/10.1016/j.orgel.2015.06.002

Schroder, D. (1998). *Semiconduktor Material and Device Characterization*. Wiley-Interscience Publication. Arizona.

Schrote, K., & Frey, M. W. (2013). Effect of irradiation on poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) nanofiber conductivity. *Polymer*, *54*(2), 737–742. http://doi.org/10.1016/j.polymer.2012.11.062

Shahi, M., Moghimi, A., Naderizadeh, B., & Maddah, B. (2011). Electrospun PVA–PANI and PVA–PANI– composite nanofibers. *Scientia Iranica*, *18*(6), 1327–1331. http://doi.org/10.1016/j.scient.2011.08.013

Shin, M. K., Kim, Y. J., Kim, S. I., Kim, S. K., Lee, H., Spinks, G. M., & Kim, S. J. (2008). Enhanced conductivity of aligned PANi/PEO/MWNT nanofibers by electrospinning. *Sensors and Actuators, B: Chemical*, *134*(1), 122–126. http://doi.org/10.1016/j.snb.2008.04.021

Sorlier, P. (2007). *Electrospinning and nanofibers. Polymers: Last achievements and*

*prospects, in honour of Professor Jérôme.*

Stanger, J., Tucker, N., & Staiger, M. (1995). Electrospinning. *Journal of Electrostatics*, *75*(6), 218. http://doi.org/10.1111/j.1750-3841.2010.01680.x

Subbiah, T., Bhat, G. S., Tock, R. W., Parameswaran, S., & Ramkumar, S. S. (2005). Electrospinning of nanofibers. *Journal of Applied Polymer Science*, *96*(2), 557–569. http://doi.org/10.1002/app.21481

Sujith, K., Asha, A. M., Anjali, P., Sivakumar, N., Subramanian, K. R. V, Nair, S. V., & Balakrishnan, A. (2012). Fabrication of highly porous conducting PANI-C composite fiber mats via electrospinning. *Materials Letters*, *67*(1), 376–378. http://doi.org/10.1016/j.matlet.2011.09.083

Vargas, M. a., Vargas, R. a., & Mellander, B.-E. (1999). New proton conducting membranes based on PVAL/H3PO2/H2O. *Electrochimica Acta*, *44*, 4227–4232. http://doi.org/10.1016/S0013-4686(99)00137-1

Zeng, J., Aigner, A., Czubayko, F., Kissel, T., Wendorff, J. H., & Greiner, A. (2005). Poly ( vinyl alcohol ) Nanofibers by Electrospinning as a Protein Delivery System and the Retardation of Enzyme Release by Additional Polymer Coatings Poly ( vinyl alcohol ) Nanofibers by Electrospinning as a Protein Delivery System and the Retardation of, 1484–1488. http://doi.org/10.1021/bm0492576