



DAFTAR PUSTAKA

- Agulló, E. *et al.* (2003) 'Present and Future Role of Chitin and Chitosan in Food', *Macromolecular Bioscience*, 3(10), pp. 521–530. doi: 10.1002/mabi.200300010.
- Alhosseini, S. N. *et al.* (2012) 'Synthesis and characterization of electrospun polyvinyl alcohol nanofibrous scaffolds modified by blending with chitosan for neural tissue engineering', pp. 25–34.
- Baker, M. I. *et al.* (2012) 'A review of polyvinyl alcohol and its uses in cartilage and orthopedic applications', *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, 100 B(5), pp. 1451–1457. doi: 10.1002/jbm.b.32694.
- Bhardwaj, N. and Kundu, S. C. (2010) 'Electrospinning: A fascinating fiber fabrication technique', *Biotechnology Advances*, 28(3), pp. 325–347. doi: 10.1016/j.biotechadv.2010.01.004.
- Cates, R. S. (2010) 'Influence of Crosslink Density on Swelling and Conformation of Surface-Constrained Poly(n-isopropylacrylamide) Hydrogels', p. 84. doi: 10.1017/CBO9781107415324.004.
- Doi, M. (1995) 'Introduction to Polymer Physics', in: Nagoya University, Japan: Department of Applied Physics.
- Elsabee, M. Z., Naguib, H. F. and Morsi, R. E. (2012) 'Chitosan based nanofibers, review', *Materials Science and Engineering C*, 32(7), pp. 1711–1726. doi: 10.1016/j.msec.2012.05.009.
- Feng, X. and Lou, X. (2015) 'The effect of surfactants-bound magnetite (Fe₃O₄) on the photocatalytic properties of the heterogeneous magnetic zinc oxides nanoparticles', *Separation and Purification Technology*. Elsevier B.V., 147, pp. 266–275. doi: 10.1016/j.seppur.2015.04.036.
- Ganji, F., Vasheghani-Farahani, S. and Vaseghani-Farahani, E. (2010) 'Theoretical Description of Hydrogel Swelling: A Review', *Iranian Polymer Journal*, 19(May 2008), pp. 131–140. doi: 10.1007/s12303-009-0004-6.
- Garg, K. and Bowlin, G. L. (2011) 'Electrospinning Jets and Nanofibrous Structures', (March). doi: 10.1063/1.3567097.
- Gupta, S. M. and Tripathi, M. (2011) 'A review of TiO₂ nanoparticles', *Chinese Science Bulletin*, 56(16), pp. 1639–1657. doi: 10.1007/s11434-011-4476-1.
- Hidayat, W. (2008) 'Teknologi Pengolahan Air Limbah'. Jakarta: Majari Magazine.
- Huang, Z. M. *et al.* (2003) 'A review on polymer nanofibers by electrospinning and their applications in nanocomposites', *Composites Science and Technology*, 63(15), pp. 2223–2253. doi: 10.1016/S0266-3538(03)00178-7.
- Im, J. S., Kim, M. Il and Lee, Y. S. (2008) 'Preparation of PAN-based electrospun nanofiber webs containing TiO₂ for photocatalytic degradation', *Materials Letters*, 62(21–22), pp. 3652–3655. doi: 10.1016/j.matlet.2008.04.019.
- Jeon, S. *et al.* (2012) 'Preparation of poly(vinyl alcohol)/poly(acrylic acid)/TiO₂/carbon nanotube composite nanofibers and their photobleaching properties', *Journal of Industrial and Engineering Chemistry*. The Korean



- Society of Industrial and Engineering Chemistry, 18(1), pp. 487–491. doi: 10.1016/j.jiec.2011.11.068.
- Jia, Y. T. *et al.* (2007) ‘Fabrication and characterization of poly (vinyl alcohol)/chitosan blend nanofibers produced by electrospinning method’, *Carbohydrate Polymers*, 67(3), pp. 403–409. doi: 10.1016/j.carbpol.2006.06.010.
- Khan, T. A., Peh, K. K. and Chang, H. S. (2001) ‘Reporting Degree of Deacetylation Values of Chitosan; The Influence of Analytical Methods’, *Pharm. Sci.*, 5(3), pp. 205–212.
- Lee, J. *et al.* (2015) ‘Fabrication of Au / GO / ZnO composite nanostructures with excellent photocatalytic performance Fabrication of Au / GO / ZnO composite nanostructures with excellent photocatalytic performance’, *Materials Chemistry and Physics*. Elsevier B.V, (November 2017). doi: 10.1016/j.matchemphys.2015.08.017.
- Lestari, E. K. (2018) ‘Optimasi Konsentrasi Kitosan Berat Molekul Rendah dan Uji Konduktivitas Larutan untuk Pembuatan Nanofiber PVA/Kitosan dengan Metode Elektrospinning’.
- Mi, X., Vijayaragavan, K. S. and Heldt, C. L. (2014) ‘Virus adsorption of water-stable quaternized chitosan nanofibers’, *Carbohydrate Research*. Elsevier Ltd, 387(1), pp. 24–29. doi: 10.1016/j.carres.2014.01.017.
- Miclescu, A. and Wiklund, L. (2010) ‘Methylene blue, an old drug with new indications?’, (April 2010).
- Mohamad, M. *et al.* (2015) ‘Materials Science in Semiconductor Processing A density functional study of structural , electronic and optical properties of titanium dioxide: Characterization of rutile , anatase and brookite polymorphs’, *Materials Science in Semiconductor Processing*. Elsevier, 31, pp. 405–414. doi: 10.1016/j.mssp.2014.12.027.
- Nasikhudin *et al.* (2017) ‘Preparation of PVA/TiO₂ Composites Nanofibers by using Electrospinning Method for Photocatalytic Degradation’, *IOP Conference Series: Materials Science and Engineering*, 202(1). doi: 10.1088/1757-899X/202/1/012011.
- Nasikhudin (2018) ‘Pengembangan Komposit Nanofiber PVA/Chitosan/TiO₂ sebagai Fotokatalis’.
- Nasikhudin *et al.* (2018) ‘Stabilization of PVA/Chitosan/TiO₂ Nanofiber Membrane with Heat Treatment and Glutaraldehyde Crosslink’, *IOP Conference Series: Materials Science and Engineering*, 367(1). doi: 10.1088/1757-899X/367/1/012004.
- Qu, X., Alvarez, P. J. J. and Li, Q. (2013) ‘Applications of nanotechnology in water and wastewater treatment’, *Water Research*. Elsevier Ltd, 47(12), pp. 3931–3946. doi: 10.1016/j.watres.2012.09.058.
- Ramakrishna, S. *et al.* (2005) *An Introduction to Electrospinning and Nanofibers*.
- Sencadas, V. *et al.* (2012) ‘Physical-chemical properties of cross-linked chitosan electrospun fiber mats’, *Polymer Testing*. Elsevier Ltd, 31(8), pp. 1062–1069. doi: 10.1016/j.polymertesting.2012.07.010.
- Shukla, S. K. *et al.* (2013) ‘Chitosan-based nanomaterials: A state-of-the-art review’, *International Journal of Biological Macromolecules*. Elsevier B.V.,



- 59, pp. 46–58. doi: 10.1016/j.ijbiomac.2013.04.043.
- Wadsö, L. (1992) ‘A Critical Rerriew on Anomalous or | üon-Fickian vapor Sorption’.
- Widjajanti, E., P, R. T. and Utomo, M. P. U. (2011) ‘Metil Merah Dan Metil Jingga’, pp. 115–122.
- Wong, K. K. H., Zinke-Allmang, M. and Wan, W. (2010) ‘Effect of annealing on aqueous stability and elastic modulus of electrospun poly(vinyl alcohol) fibers’, *Journal of Materials Science*, 45(9), pp. 2456–2465. doi: 10.1007/s10853-010-4217-x.
- Yu, Q. *et al.* (2011) ‘Preparation and properties of chitosan derivative/poly(vinyl alcohol) blend film crosslinked with glutaraldehyde’, *Carbohydrate Polymers*. Elsevier Ltd., 84(1), pp. 465–470. doi: 10.1016/j.carbpol.2010.12.006.
- Yun, J. *et al.* (2011) ‘PH-sensitive photocatalytic activities of TiO₂/poly(vinyl alcohol)/poly(acrylic acid) composite hydrogels’, *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*. Elsevier B.V., 176(3), pp. 276–281. doi: 10.1016/j.mseb.2010.11.011.