

## DAFTAR PUSTAKA

1. Fraden, J., 2004, *Handbook of Modern Sensors*, Springer-Verlag New York, Inc., New York.
2. Farahani, H. Wagiran, R. dan Hamidon, M. N., 2014, Humidity Sensors Principle, Mechanism, and Fabrication Technologies: A Comprehensive Review, *Journal Sensors*, 14, hal: 7881-7939.
3. Maddu, A. Modjahidin, K. Sardy, S. Zain, H., 2006, Pengembangan Probe Sensor Kelembaban Serat Optik dengan Cladding Gelatin, *Makara*, Vol.10, No.1, Universitas Indonesia, Jakarta.
4. Zhang, L. Gu, F. Lou, J. Yin, X. Tong, L., 2008. Fast detection of humidity with a subwavelength diameter fiber taper coated with gelatin film, *Optic Express*, No. 17, Vol. 15, Optical Society of America, USA.
5. Aneesh, R. dan Khijwania, S.K., 2009, An Optical Fiber Humidity Sensor With Linear Response Throughout Its Dynamic Range, *Department of Physics*, Indian Institute of Technology Guwahati, Guwahati-781039, India.
6. Gomez, D. Morgan, S.P., Hayes-Gill, B.R., Correia, R.G., Korposh, S., 2017. Polymeric optical fibre sensor coated by SiO<sub>2</sub> nanoparticles for humidity sensing in the skin microenvironment. *Sensors and Actuators B. Optics and Photonics Research Group*, Faculty of Engineering, University Park, University of Nottingham, Nottingham, NG7 2RD, UK SNB 22850.
7. Sikong dkk., 2008, Effect of Doped SiO<sub>2</sub> and Calsinations Temperature on Phase Transformation of TiO<sub>2</sub> Photocatalyst Prepared by Sol Gel Methode, *Songklana Karin J. Sci. Technol*, 30(3): 385-386.
8. Schubert, U. Nicole. H., 2000, *Synthesis of Inorganic material Willey- VCH*. Jerman. No. 63 – 108.
9. Gaikwad, P., 2003, Mississippi State Engineering, *Thesis*, Department of Electrical and Computer Engineering, USA.
10. Ciprian, R. dan Lehman, B., 2009, Modeling Effects of Relative Humidity, Moisture, and Extreme Environmental Conditions on Power Electronic Performance, *Energy Conversion Congress and Exposition*, Vol. 9, IEEE.

11. Wirjohamidjojo, S., 2006, *Kamus istilah Meteorologi Aeronautika*. Jakarta: Penerbit Badan Meteorologi dan Geofisika.
12. Akhmad, F., 2013, Pemanfaatan Suhu Udara dan Kelembaban Udara dalam Persamaan Regresi untuk Simulasi Prediksi Total Hujan Bulanan di Pangkalpinang. *Stasiun meteorology depati Amir Pangkalpinang*. Volume 3 No. 1 November 2013.
13. Fujishima, A. K. Hasimoto, K. Watanabe, T., 1999, TiO<sub>2</sub> Photocatalysis Fundamental and Application, *Koyo pringting*, Jepang.
14. Rilda, Y. Alif, A. Munaf, E. Salleh, B. Krista, S., 2015, Effects of Doped Dodecyl Trimethylammonium Bromide Surfactant on Synthesis and Performance of Nanoporous TiO<sub>2</sub>-SiO<sub>2</sub>/ Chitosan, *Asian Journal of Chemistry*, Vol.27, No.11(2015)3983-3987.
15. Zhan, Chengjiao., 2012, Photocatalytic behavior of nano sized titanium dioxide (TiO<sub>2</sub>) blended in poly (lactic acid) (PLA) via melt blending method: focus on textile applications. *Swedish School of Textille*, Boras University.
16. Saragih, H. Supriyanto. Arifin, P. Barmawi, M. 2006. Studi Penumbuhan Film Tipis Ti<sub>x</sub>CO<sub>x</sub>O<sub>2</sub> dengan Teknik MOCVD menggunakan Prekursor Titanium (IV) Isopropoxide dan Tris (2,2,6,6-tetramethyl 3,5-heptanedionato) Cobalt (III), *Proceedings ITB sains dan Teknologi*, 38A(2): 117-131.
17. Sasti, H.T., 2011, Studi preparasi dan karakterisasi titanium dioksida mesopori, *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Indonesia, Depok.
18. Rilda, Y. Fahdli. Syukri. Alif, A. Aziz, H. Chandren, S. Nur, H., 2016, Self Cleaning TiO<sub>2</sub>-SiO<sub>2</sub> Cluster On Cotton Textile Prepared By Dip-SpinCoating Process, *Jurnal Teknologi ( Science & Engineering)*, 78(7): 113-120.
19. Eddy, D.R. Lestari, M.W. Hastiawan, I. Noviyanti, A.R., 2016, Sintesis Partikel Nano Titanium Dioksida pada Kain Katun dan Aplikasinya Sebagai Material Self Cleaning, *Chimica of Nature Acta*, 4(3): 130-137.
20. Balachandaran, K et al,2010, Synthesis of Nano TiO<sub>2</sub>-SiO<sub>2</sub> Composite Using Sol-Gel Method: Effect on Size, Surface Morphology and Thermal Stability, *International Journal of Engineering Science and Technology*, Vol. 2(8). 3695-3700.

21. Rilda, Y. Safitri, R. Agustien, A. Nazir, N. Syafiuddin, A. Nur, H., 2017, Enhancement of Antibacterial Capability of Cotton Textiles coated with TiO<sub>2</sub>-SiO<sub>2</sub>/ Chitosan Using Hydrophobization, *Journal of the Chinese Chemical Society*, Vol 64, pp 1347.
22. Praja, F.G., 2013, Analisis Perhitungan dan Pengukuran Transmisi Jaringan Serat Optik Telkomsel Regional Jawa Tengah, *Jurnal Online Institut Teknologi Nasional*, Vo.1, No.1, Jurusan Teknik Elektro Institut Teknologi Nasional.
23. Suematzu, Y. dan Iga, K., 1982, *Introduction to Optical Fiber Communication*, Jhon Willey & Sons, Inc., New York.
24. Auzaiy., 2008, Analisis Power Budget Jaringan Komunikasi Serat Optik PT Telkom di STO Jatinegara, *Skripsi*, Fakultas Teknik Elektro, Universitas Indonesia, Jakarta.
25. Prasetya, D., 2009, *Serat Optik*, Teknik Informatik 2006 Fakultas Ilmu Komputer, Universitas Brawijaya
26. Griffiths, D.J., 1999, *Introduction to Electrodynamics*, Prentice-Hall, Inc, Upper Saddle, New Jersey.
27. Keiser, G., 2000, *Optical Fiber Communications*, The Mc Graw-Hill Companies Inc, USA.
28. Frederick, A., 1990, *Fiber Optics Hand Book for Engineers and Scientist*, Mc Graw-Hill, United States.
29. Fuadi, N., 2010, Sensor Serat Optik untuk Deteksi Uap Etanol pada Proses Fermentasi, *Skripsi*, Institut Pertanian Bogor, Bogor.
30. Fidanboylu, K. dan Efendioglu, H.S., 2009, Fiber Optic Sensors and Their Applications, *5th International Advanced Technologies Symposium*, 13-15 Mei 2009.
31. Purniawan, A., 2014, Evanescent Waveguide Sensors for Biomedical Applications, Ipskamp Druckkers B.V, Netherlands.
32. Bolton, W., 2006, *Sistem Instrumentasi dan Sistem Kontrol*, PT Gelora Aksara Pratama, Jakarta.
33. Microsoft Homepage, 2017, Arduino IDE, <https://www.microsoft.com/>, diakses Maret 2017.

34. Colmenares, J.C, Aramendia, M.A, Marinas, A, Marinas, J.M, Urbano, F.J., 2006, Synthesis, Characterization and Photocatalytic Activity of Different Metal-Doped Titania System, *Applied Catalysis A, General*,306, 120-127.
35. Guan, K., 2005, Relationship Between Photocatalytic Activity, Hydrophilicity, and Self Cleaning Effect of TiO<sub>2</sub>-SiO<sub>2</sub> Films, *Surf and Coating Technol.* 191. pp. 155-160.
36. Yusefah, D., Amaria, 2014, Pengaruh Suhu Kalsinasi Terhadap Ukuran Kristal dan Energi Celah Pita Komposit TiO<sub>2</sub>-SiO<sub>2</sub>, *Journal of Chemistry*, vol. 3, no. 1.

