

DAFTAR PUSTAKA

- Agustina, T. E. dan Amir, M., 2012, Pengaruh Temperatur dan Waktu pada Pengolahan Pewarna Sintetis Procion Menggunakan Regaen Fenton, *JTKI*, 18(3). 56-61.
- Cheng, J.P., Ma, R., Li, M., Wu, J.S., Liu, F., Zhang, X.B., 2012, Anatase Nanocrystals Coating on Silica-coated Magnetite: Role of Polyacrylic Acid Treatment and Its Photocatalytic Properties, *Chem.Eng.J.*, 210, 80-86.
- Colleoni, C., Donelli, I., Freddi, G., Guido, E., Migani, V., and Rosace, G., 2013, A Novel Sol-gel Multi-layer Approach for Cotton Fabric Finishing by tetraethoxysilane Precursor, *Surf. Coat. Technol.*, 235 192-203.
- Dhineshabu, N.R., Manivasakan, P., Yuvakkumar, R., Prabu, P., and Rajendran, V., 2013, Enhanced Funtional Properties of ZrO₂/SiO₂ Hybrid Nanosol Coated Cotton Fabrics, *J. Nanosci. Nanotechno.*, 13, 4017-4024.
- Duke, N., Kathiresan, K., Salmo III, S.G., Fernando, E.S., Peras, J.R., Sukardjo, S. and Miyagi, T., 2010, *Ceriops tagal*, *The IUCN Red List of Threatened Species*.
- Fang, L., Zhang, X., and Sun, D., 2013, Chemical modification of cotton fabrics for improving utilization of reactive dyes, *Carbohydr. Polym.*, 91, 363-369.
- Handayani, P.A., dan Maulana, I., 2013, Pewarna Alami Batik dari Kulit Soga Tingi (*Ceriops tagal*) dengan Metode Ekstraksi, *JBAT*, 2 (2), 1-6.
- Hon, D. N. S., and Shiraishi, N., 2000, *Wood and Cellulosic Chemistry*, Marcel Dekker, Inc., New York.
- Hoong, Y. B., Pizzi, A., Tahir, M. P., and Pasch, H., 2010, Characterization of *Acacia mangium* polyflavonoid tannins by MALDI-TOF mass spectrometry and CP-MAS 13 C NMR, *Eur. Polym. J.*, 46(6), 1268-1277.
- Indrianingsih, A.W., and Darsih, C., 2013, Natural Dyes from Plants Extract and its Applicationns in Indonesian Textile Small Medium Scale Enterprise, *Eksergi*, 11, 16-22.
- Ishizaki, K., Komarneni, S., and Nanko, M., 1998, *Porous Material : Process Technology and Application*, Kluwer Academic Publisher, Netherlands.
- Kartikaningsih, D. Arwan, M. dan Danarto, Y.C., 2011, Pengambilan Tanin dari Kulit Kayu Bakau dan Pemanfaatannya sebagai Adsorben Logam Berat Cuprum (Cu) dan Timbal (Pb), *Ekulilibrium*, 10 (1), 34-41.

- Kasmudjiastuti, E., 2014, Karakterisasi Kulit Kayu Tinggi (*Ceriops tagal*) Sebagai Bahan Penyamak Nabati, *MKKP*, 30 (2), 71-78.
- Kholilah, 2009, Komposit TiO₂-SiO₂ untuk Meningkatkan Ketahanan Luntur Zat Warna Malachite Green pada Kain Katun, *Skripsi*, Departemen Kimia, FMIPA UGM, Yogyakarta.
- Koebel, M.M. and Zhao, S., 2012, *Aerogels from Sodium Silicate towards Cost-Effective Mass Production Technologies*, Empa, Dübendorf.
- Liu, X., Wang, W., and Xu, P., 2010, Improving the Wash Fastness of Direct Dyes on Cotton by Si/Ti Composite Nanosol, *Fibres & Textiles*, 18, 1 (78), 93-96.
- Mahltig, B., and Textor, T., 2006, Combination of silica sol and dyes on textiles, *J Sol-Gel Sci Techn*, 39, 111-118.
- Mahltig, B., Böttcher, H., Rauch, K., Dieckmann, U., Nitsche, R., and Fritz, T., 2005, Optimized UV Protecting Coatings by Combination of Organic and Inorganic UV Absorbers, *Thin Solid Films*, 485: 108-114.
- Mahltig, B., Bottcher, H., Knittel, D., and Schollmeyer, E., 2004, Light Fading and Wash Fastness of Dyed Nanosol-Coated Textiles, *Textile Res.J.*, 74(6), 521-527.
- Mai, Z., Xiong, Z., Shu, X., Liu, X., Zhang, H., Yin, X., Zhou, Y., Liu, M., Zhang, M., Xu, W., and Chen, D., 2018, Multifunctionalization of Cotton Fabrics with Polyvinylsilsequioxane/ZnO Composite Coating, *Carbohydr. Polym.*, 199, 516-525.
- Mekonnen, D., Habtamu, S., Sathiyamoorthy, M., and Selvi, V., 2013, Preparation of Eco-friendly Leather by Process Modifications to Make Pollution Free Tanneries, *J. Eng. Appl. Sci.*, 2(5), 17-22.
- Menezes, E, and Mrinal, C., 2011, *Pre-treatment of Textile Prior to Dyeing*, *Textile Dyeing*, Intech, Shanghai.
- Min, L., Xiaoli, Z., and Shuilin, C., 2003, Enhancing the Wash Fastness of Dyeings by a Sol-gel Process. Part 1: Direct dyes on cotton, *Color. Technol*, 119, 297-300.
- Nazir, F., 2008, Mangrove Studies: A Source of Tanning Material Reviews the Used of Mangrove as an Ecologically Friendly Tanning Material, *Leather International*.
- Pandey, A., Singh, P., Iyengar, L., 2007, Bacterial Decolorization and Degradation of Azo Dyes, *Int. Biodeterior. Biodegrad*, 59, 73-84.

- Ping, L., Pizzi, A., Guo, Z. D., and Brosse, N., 2011, Condensed Tannins Extraction from Grape Pomace: Characterization and Utilization as Wood Adhesives for Wood Particleboard, *Ind Crops Prod*, 34(1), 907-914.
- Pratama, N. I., 2015, Komposit TiO₂-SiO₂ untuk Meningkatkan Ketahanan Luntur Zat Warna Guinea Green b pada Kain Katun, *Skripsi*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Rowell, R. M., 2005, *Handbook of Wood Chemistry and Wood Composites*, CRC Press, USA.
- Schubert, U., and Housing, E., 2000, *Synthesis of Inorganic Materials*, Wiley-VCH, Weinheim.
- Setyafani, N. R., 2018, Optimasi Proses Pewarnaan Kain Batik Menggunakan Pewarna Alami Cokelat Berdasarkan Preferensi Konsumen dengan Metode Taguchi, *Skripsi*, Departemen Teknik Kimia, Fakultas Teknik UGM, Yogyakarta.
- Situmorang, P., 2013, Asosiasi Jenis Ceriops tagal (Tengar) di Hutan Mangrove Kawasan Bedul Taman Nasional Alas Purwo Banyuwangi Jawa Timur, *Skripsi*, Bagian Konservasi Sumberdaya Hutan, Fakultas Kehutanan UGM, Yogyakarta.
- Solomons, T.W., Fryhle, C., 2011, *Organic Chemistry*, USA: John Wiley and sons, Inc.
- Susanto, S.S.K., 1980, *Seni Kerajinan Batik Indonesia*, Balai Penelitian Batik dan Kerajinan, Yogyakarta.
- Yang, Z.B., 2003, *Adsorbent : Fundamentals and Applications*, John Wiley and Sons, New Jersey.
- Yao, Z.J., Wang, Z., Zhou, J., and Zhang, Y., 2016, Reuse of Waste Cotton Cloth for the Extraction of Cellulose Nanocrystals, *Carbohydr. Polym.*, 157: 942-952.
- Zhang, L. L., Wang, Y. M., Wu, D. M., Xu, M., dan Chen, J. H., 2012, Study on the Structure of Mangrove Polyflavonoid Tannins with MALDI-TOF Mass Spectrometry and NMR, *Adv. Mater. Res.*, 554, 1988-1993.