DAFTAR PUSTAKA

Adesina, A. D. (2023). Synthesis of Schiff Bases by Non-Conventional Methods. Dalam *Schiff Base in Organic, Inorganic and Physical Chemistry*. IntechOpen. https://doi.org/10.5772/intechopen.108688

Akhtar, K., Khan, S. A., Khan, S. B., & Asiri, A. M. (2018). Scanning Electron Microscopy: Principle and Applications in Nanomaterials Characterization. Dalam *Handbook of Materials Characterization* (hlm. 113–145). Springer International Publishing. https://doi.org/10.1007/978-3-319-92955-2_4

Alharthi, S. S., Gomathi, T., Joseph, J. J., Rakshavi, J., Florence, J. A. K., Sudha, P. N., Rajakumar, G., & Thiruvengadam, M. (2022). Biological activities of chitosan-salicylaldehyde schiff base assisted silver nanoparticles. *Journal of King Saud University - Science*, *34*(6), 102177. https://doi.org/10.1016/j.jksus.2022.102177

Aljawish, A., Chevalot, I., Jasniewski, J., Scher, J., & Muniglia, L. (2015). Enzymatic synthesis of chitosan derivatives and their potential applications. *Journal of Molecular Catalysis B: Enzymatic*, *112*, 25–39. https://doi.org/10.1016/j.molcatb.2014.10.014

Aranaz, I., Alcántara, A. R., Civera, M. C., Arias, C., Elorza, B., Caballero, A. H., & Acosta, N. (2021). Chitosan: An overview of its properties and applications. Dalam *Polymers* (Vol. 13, Nomor 19). MDPI. https://doi.org/10.3390/polym13193256

Asmorowati, D. S., Sumarti, S. S., & Kristanti, I. I. (2020). Perbandingan Metode Destruksi Basah dan Destruksi Kering untuk Analisis Timbal dalam Tanah di Sekitar Laboratorium Kimia FMIPA UNNES. *Indonesian Journal of Chemical Science*, *9*(3).

Azizati, Z. (2019). Pembuatan d an Karakterisasi Kitosan Kulit Udang Galah. *Walisongo Journal of Chemistry*, *2*(1), 10–16.

Badawy, M. E. I., Lotfy, T. M. R., & Shawir, S. M. S. (2019). Preparation and antibacterial activity of chitosan-silver nanoparticles for application in preservation of minced meat. *Bulletin of the National Research Centre*, *43*(1), 83. https://doi.org/10.1186/s42269-019-0124-8

Bernatová, S., Samek, O., Pilát, Z., Šerý, M., Ježek, J., Jákl, P., Šiler, M., Krzyžánek, V., Zemánek, P., Holá, V., Dvořáčková, M., & Růžička, F. (2013). Following the Mechanisms of Bacteriostatic versus Bactericidal Action Using Raman Spectroscopy. *Molecules*, *18*(11), 13188–13199. https://doi.org/10.3390/molecules181113188

Chauhan, D. S., Mazumder, M. A. J., Quraishi, M. A., Ansari, K. R., & Suleiman, R. K. (2020). Microwave-assisted synthesis of a new Piperonal-Chitosan Schiff base as a bio-inspired corrosion inhibitor for oil-well acidizing. *International Journal of Biological Macromolecules*, *158*, 231–243. https://doi.org/10.1016/j.ijbiomac.2020.04.195

Chung, D. H. L. (2010). *Composite Materials, Science and Applications 2*. Springer-Verlag.

Desvita, H., Faisal, M., Mahidin, M., & Suhendrayatna, S. (2020). Edible Coating for Beef Preservation from Chitosan Combined with Liquid Smoke. *International Journal of Technology*, *11*(4), 817. https://doi.org/10.14716/ijtech.v11i4.4039

Dutta, P. (2011). Silver nanoparticles embedded in zeolite membranes: release of silver ions and mechanism of antibacterial action. *International Journal of Nanomedicine*, 1833. https://doi.org/10.2147/IJN.S24019

Gierszewska, M., & Ostrowska-Czubenko, J. (2016). EQUILIBRIUM SWELLING STUDY OF CROSSLINKED CHITOSAN MEMBRANES IN WATER, BUFFER AND SALT SOLUTIONS. *Progress on Chemistry and Application of Chitin and its Derivatives*, *21*, 55–62. https://doi.org/10.15259/PCACD.21.05

Habibah, R., Nasution, D. Y., & Muis, Y. (2013). PENENTUAN BERAT MOLEKUL DAN DERAJAT POLIMERISASI α – SELULOSA YANG BERASAL DARI ALANG-ALANG (Imperata cylindrica) DENGAN METODE VISKOSITAS . *Jurnal Saintia Kimia*, *1*(2).

Hajji, S., Salem, R. B. S.-B., Hamdi, M., Jellouli, K., Ayadi, W., Nasri, M., & Boufi, S. (2017). Nanocomposite films based on chitosan–poly(vinyl alcohol) and silver nanoparticles with high antibacterial and antioxidant activities. *Process Safety and Environmental Protection*, *111*, 112–121. https://doi.org/10.1016/j.psep.2017.06.018

Harris, D. C., & Bertolucci, M. D. (1989). *Symmetry and Spectroscopy: An Introduction to Vibrational and Electronic Spectroscopy*. Dover Publications.

Hastuti, B., Masykur, A., & Hadi, S. (2016). Modification of chitosan by swelling and crosslinking using epichlorohydrin as heavy metal Cr (VI) adsorbent in batik industry wastes. *IOP Conference Series: Materials Science and Engineering*, *107*, 012020. https://doi.org/10.1088/1757-899X/107/1/012020

Haynes, W. M. (2014). *CRC Handbook of Chemistry and Physics* (95th Edition). CRC Press LLC.

Huang, K.-S., Wang, L.-S., Wang, C.-Y., Yang, C.-H., Hsieh, C.-L., Chen, S.-Y., Shen, C.-Y., & Wang, J.-J. (2015). Synthesis and Anti-Fungal Effect of Silver Nanoparticles-Chitosan Composite Particles. *International Journal of Nanomedicine*, 2685. https://doi.org/10.2147/IJN.S77410

Iulietto, M. F., Sechi, P., Borgogni, E., & Cenci-Goga, B. T. (2015). Meat Spoilage: A Critical Review of a Neglected Alteration Due to Ropy Slime Producing Bacteria. *Italian Journal of Animal Science*, *14*(3), 4011. https://doi.org/10.4081/ijas.2015.4011

Jana, J., Ganguly, M., & Pal, T. (2016). Enlightening surface plasmon resonance effect of metal nanoparticles for practical spectroscopic application. *RSC Advances*, *6*(89), 86174–86211. https://doi.org/10.1039/C6RA14173K

Joseyphus, R. S., & Nair, M. S. (2008). Antibacterial and Antifungal Studies on Some Schiff Base Complexes of Zinc(II). *Mycobiology*, *36*(2), 93. https://doi.org/10.4489/MYCO.2008.36.2.093

Link, S., & El-Sayed, M. A. (1999). Size and Temperature Dependence of the Plasmon Absorption of Colloidal Gold Nanoparticles. *The Journal of Physical Chemistry B*, *103*(21), 4212–4217. https://doi.org/10.1021/jp984796o

Magvirah, T., Marwati, & Ardhan, F. (2019). UJI DAYA HAMBAT BAKTERI Staphylococcus aureus MENGGUNAKAN EKSTRAK DAUN TAHONGAI (Kleinhovia hospita L.). *Jurnal Peternakan Lingkungan Tropis*, *2*(2), 41–50.

Marieta, A., & Musfiroh, I. (2019). REVIEW ARTIKEL : BERBAGAI AKTIVITAS FARMAKOLOGI DARI SENYAWA KITOSAN. *Farmaka*, *17*(2), 105–110.

Mathaba, M., & Daramola, M. O. (2020). Effect of Chitosan's Degree of Deacetylation on the Performance of PES Membrane Infused with Chitosan during AMD Treatment. *Membranes*, *10*(3), 52. https://doi.org/10.3390/membranes10030052

Mousavi, Z., Babaei, S., Naseri, M., Hosseini, S. M. H., & Shekarforoush, S. S. (2022). Utilization in situ of biodegradable films produced with chitosan, and functionalized with ε-poly-l-lysine: an effective approach for super antibacterial application. *Journal of Food Measurement and Characterization*, *16*(2), 1416–1425. https://doi.org/10.1007/s11694-022-01297-2

Mursida, M., Tasir, T., & Sahriawati, S. (2018). EFEKTIFITAS LARUTAN ALKALI PADA PROSES DEASETILASI DARI BERBAGAI BAHAN BAKU KITOSAN. *Jurnal Pengolahan Hasil Perikanan Indonesia*, *21*(2), 358. https://doi.org/10.17844/jphpi.v21i2.23091

Nasir, M. (2020). *Spektrofotometri Serapan Atom*. Syiah Kuala University Press.

Paju, N., Yamlean, P. V., & Kojong, N. (2013). Uji Efektivitas Salep Ekstrak Daun Binahong (Anredera cordifolia (Ten.) Steenis) pada Kelinci (Oryctolagus cuniculus) yang Terinfeksi Bakteri Staphylococcus aureus. *PHARMACON*, *2*(1).

Paramelle, D., Sadovoy, A., Gorelik, S., Free, P., Hobley, J., & Fernig, D. G. (2014). A rapid method to estimate the concentration of citrate capped silver nanoparticles from UV-visible light spectra. *The Analyst*, *139*(19), 4855. https://doi.org/10.1039/C4AN00978A

Patra, S., Sen, D., Pandey, A. K., Bahadur, J., Mazumder, S., Ramagiri, S. V., Bellare, J. R., Roth, S. V., Santoro, G., Yu, S., & Goswami, A. (2014). Time resolved growth of membrane stabilized silver NPs and their catalytic activity. *RSC Adv.*, *4*(103), 59379–59386. https://doi.org/10.1039/C4RA10400E

Pratiwi, R. A., & Nandiyanto, A. B. D. (2022). How to Read and Interpret UV-VIS Spectrophotometric Results in Determining the Structure of Chemical Compounds. *Indonesian Journal of Educational Research and Technology*, *2*(1), 1–20. https://doi.org/10.17509/ijert.v2i1.35171

Raczuk, E., Dmochowska, B., Samaszko-Fiertek, J., & Madaj, J. (2022). Different Schiff Bases—Structure, Importance and Classification. *Molecules*, *27*(3), 787. https://doi.org/10.3390/molecules27030787

Rusnawati, Y. B., & Alimuddin. (2018). Perbandingan Metode Destruksi Basah dan Destruksi Kering terhadap Analisis Logam Berat Timbal (Pb) pada Tanaman Rumput Bebek (Lemna minor). *Prosiding Seminar Nasional Kimia 2018*.

Saenz-García, C. E., Castañeda-Serrano, P., Mercado Silva, E. M., Alvarado, C. Z., & Nava, G. M. (2020). Insights into the Identification of the Specific Spoilage Organisms in Chicken Meat. *Foods*, *9*(2), 225. https://doi.org/10.3390/foods9020225

Setijawati, D., Ersyah, D., & Yahya. (2021). Pengaruh Derajad Deasetilasi Chitosan dengan Perlakuan Alkali Berbeda Terhadap Kualitas Edible Film. *JFMR-Journal of Fisheries and Marine Research*, *5*(2). https://doi.org/10.21776/ub.jfmr.2021.005.02.13

Singh, N., Manshian, B., Jenkins, G. J. S., Griffiths, S. M., Williams, P. M., Maffeis, T. G. G., Wright, C. J., & Doak, S. H. (2009). NanoGenotoxicology: The DNA damaging potential of engineered nanomaterials. *Biomaterials*, *30*(23–24), 3891–3914. https://doi.org/10.1016/j.biomaterials.2009.04.009

Skoog, D. A., Holler, F. J., & Crouch, S. R. (2007). *Principles of Instrumental Analysis* (6th ed.). Thomson Higher Education.

Susilowati, E., Ariani, S. R. D., Mahardiani, L., & Izzati, L. (2021). Synthesin and Characterization Chitosan Film with Silver Nanoparticle Addition As A Multiresistant Antibacteria Material. *JKPK (Jurnal Kimia dan Pendidikan Kimia)*, *6*(3), 371. https://doi.org/10.20961/jkpk.v6i3.57101

Szunerits, S., & Boukherroub, R. (2018). Near-Infrared Photothermal Heating With Gold Nanostructures. Dalam *Encyclopedia of Interfacial Chemistry* (hlm. 500–510). Elsevier. https://doi.org/10.1016/B978-0-12-409547-2.13228-7

Takemura, K. (2021). Surface Plasmon Resonance (SPR)- and Localized SPR (LSPR)-Based Virus Sensing Systems: Optical Vibration of Nano- and Micro-Metallic Materials for the Development of Next-Generation Virus Detection Technology. *Biosensors*, *11*(8), 250. https://doi.org/10.3390/bios11080250

Talitha, R. F., Ayu, P., & Lully Hanni, E. (2022). PERBANDINGAN DESTRUKSI BASAH DAN KERING DENGAN VARIASI ZAT PENGOKSIDASI PADA ANALISIS TIMBAL DALAM RAMBUT PETUGAS OPERATOR SPBU SECARA AAS. *Analis Kesehatan Sains*, *10*(2). https://doi.org/10.36568/anakes.v10i2.25

Thomas, V., Yallapu, M. M., Sreedhar, B., & Bajpai, S. K. (2009). Fabrication, Characterization of Chitosan/Nanosilver Film and Its Potential Antibacterial Application. *Journal of Biomaterials Science, Polymer Edition*, *20*(14), 2129–2144. https://doi.org/10.1163/156856209X410102

Valentino, H., & Sobrado, P. (2019). *Performing anaerobic stopped-flow spectrophotometry inside of an anaerobic chamber* (hlm. 51–88). https://doi.org/10.1016/bs.mie.2019.03.006

Velezheva, V., Brennan, P., Ivanov, P., Kornienko, A., Lyubimov, S., Kazarian, K., Nikonenko, B., Majorov, K., & Apt, A. (2016). Synthesis and antituberculosis activity of indole–pyridine derived hydrazides, hydrazide–hydrazones, and thiosemicarbazones. *Bioorganic & Medicinal Chemistry Letters*, *26*(3), 978–985. https://doi.org/10.1016/j.bmcl.2015.12.049

Wahyuni, W., Ridhay, A., & Nurakhirawati, N. (2016). PENGARUH WAKTU PROSES DEASETILASI KITIN DARI CANGKANG BEKICOT (Achatina fulica) TERHADAP DERAJAT DEASETILASI. *KOVALEN*, *2*(1). https://doi.org/10.22487/j24775398.2016.v2.i1.6039

Wang, H., Zhang, G., Mia, R., Wang, W., Xie, L., Lü, S., Mahmud, S., & Liu, H. (2022). Bioreduction (Ag+ to Ag0) and stabilization of silver nanocatalyst using hyaluronate biopolymer for azo-contaminated wastewater treatment. *Journal of Alloys and Compounds*, *894*, 162502. https://doi.org/10.1016/j.jallcom.2021.162502

Wang, M., Li, H., Li, Y., Mo, F., Li, Z., Chai, R., & Wang, H. (2020). Dispersibility and Size Control of Silver Nanoparticles with Anti-Algal Potential Based on Coupling Effects of Polyvinylpyrrolidone and Sodium Tripolyphosphate. *Nanomaterials*, *10*(6), 1042. https://doi.org/10.3390/nano10061042

Wijayanto, S. O., & Bayuseno, A. P. (2014). ANALISIS KEGAGALAN MATERIAL PIPA FERRULE NICKEL ALLOY N06025 PADA WASTE HEAT BOILER AKIBAT SUHU TINGGI BERDASARKAN PENGUJIAN : MIKROGRAFI DAN KEKERASAN . *Jurnal Teknik Mesin*, *2*(1).

Witter, L. D. (1961). Psychrophilic Bacteria—A Review. *Journal of Dairy Science*, *44*(6), 983–1015. https://doi.org/10.3168/jds.S0022-0302(61)89851-2

Xiu, Z., Zhang, Q., Puppala, H. L., Colvin, V. L., & Alvarez, P. J. J. (2012). Negligible Particle-Specific Antibacterial Activity of Silver Nanoparticles. *Nano Letters*, *12*(8), 4271–4275. https://doi.org/10.1021/nl301934w

Yang, W., Fu, J., Wang, T., & He, N. (2009). Chitosan/Sodium Tripolyphosphate Nanoparticles: Preparation, Characterization and Application as Drug Carrier. *Journal of Biomedical Nanotechnology*, *5*(5), 591–595. https://doi.org/10.1166/jbn.2009.1067

Yu, S., Yin, Y., Chao, J., Shen, M., & Liu, J. (2014). Highly Dynamic PVP-Coated Silver Nanoparticles in Aquatic Environments: Chemical and Morphology Change Induced by Oxidation of Ag^{0} and Reduction of Ag^{+}. *Environmental Science & Technology*, *48*(1), 403–411. https://doi.org/10.1021/es404334a

Zheng, K., Setyawati, M. I., Leong, D. T., & Xie, J. (2018). Antimicrobial Silver Nanomaterials. *Coordination Chemistry Reviews*, *357*, 1–17. https://doi.org/10.1016/j.ccr.2017.11.019