

DAFTAR PUSTAKA

- Belatik, A., Hotchandani, S., Carpentier, R., and Tajmir-Riahi, H-A., 2012, Locating the Binding Sites of Pb(II) Ion with Human and Bovine Serum Albumins, *PLoS ONE*, 7(5).
- Betancor, L., Lopez-gallego, F., Hidalgo, A., Alonso-morales, N., Dellamora-ortiz, G., Mateo, C., Fernandez-lafuente, R., and Guisan, J.M., 2006, Different Mechanisms of Protein Immobilization on Glutaraldehyde Activated Supports: Effect of Support Activation and Immobilization Condition, *Enz. Microb. Tech.*, 39(4), 877-882.
- Bhatia, R.B., and Brinker, C.J., 2000, Aqueous Sol-Gel Process for Protein Encapsulation, *Chem. Mater.*, (8)12, 2434-2441.
- Brinker, C.J., and Scherer, G.W., 1990, *Sol-Gel Science: The Physics and Chemistry of Sol-Gel Processing*, Academic Press, Cambridge.
- Brown, J.R., 1975, Structure of Bovine Serum Albumin, *Fed. Proc.*, (34), 591.
- Buckley, A.M., and Greenblatt, M., 1994, Sol-Gel Preparation of Silica Gel, *J. Chem. Ed.*, 7(71), 599.
- Chen Y.C., Liu, C.P., Yang, C.K., Huang, B.Y., and Liu C.Y., 2013, Preparation and Release Properties of Sol Gel Encapsulated Proteins, *JASMI*, 3, 11-16.
- Coradin, T., Boissierre, M., and Livage, J., 2006, Sol-Gel Chemistry in Medicinal Science, *Curr. Med. Chem.*, 13, 99-108.
- Dave, B.C., Dunn, B., Valentine, J.S., and Zink, J.I., 1994, Sol-Gel Encapsulation Methods for Biosensor, *Anal. Chem.*, 66, 1120A-1127A.
- Eggins and Brian, R., 1996, *Biosensor an Introduction*, John Wiley and Sons, New York.
- Enymia, Suhandana, dan Sulistarihani, N., 1998, Pembuatan Silika Gel dari Sekam Padi untuk Bahan Pengisi Karet Ban, *JKGI*, 1(7).
- Fahmiati, Nuryono, dan Narsito, 2004, Kajian Kinetika Adsorpsi Cd(II), Ni(II) dan Mg(II) pada Silika Gel Termodifikasi 3-Merkapto-1,2,4-Triazol, *Alchemy*, 3(2), 22-28.
- Farook, A., and Ravendran, S., 2000, Saturated Fatty Acids Adsorption by Acidified RiceHull Ash, *J. Chem. Soc.*, 77, 437-440.
- Fidalgo, A., and Ilharco, K.M., 2003, Thickness, Morphology and Structure of Sol-Gel Hybrid Films, *J. Sol-Gel Sci. Technol.*, 26(1-3), 357-367.
- Fozia, Z., Haquea, Vazid, A., and Husain, M., 2013, Synthesis and Spectroscopic Characterization of Nile Blue doped Silica Gel Rods, *Optik.*, 124, 4287-4291.

- Gao, S., Zhang, S., and Gao, G., 2009, Immobilization of Beta-Galactosidase onto Magnetic Beads, *Appl. Biochem. Biotechnol.*, 160(5), 1386-1393.
- Gupta, R. and Chaudhury, N.K., 2007, Entrapment of Biomolecules in Sol-Gel Matrix for Applications in Biosensors: Problems and Future Prospects, *Biosens. Bioelectron.*, (22), 2387-2399.
- Hindryawati, N., 2005, Enkapsulasi Enzim Dehidrogenase Laktat (DHL) dalam Silika dengan Bahan Dasar Natrium Silikat dari Abu Sekam Padi, *Tesis*, Program Studi Kimia, Fakultas MIPA UGM, Yogyakarta.
- Ibrahem, S., and Ibrahem, H., 2014, Synthesis and Study the Effect of H₂O/TEOS Ratio of the Silica Xerogel by Sol-Gel Method, *Int. Arch. App. Sci. Technol.*, 1(5), 01-05.
- Jin, W., and Brennan, J.D., 2002, Properties and Application of Proteins Encapsulated within Sol-Gel Derived Materials, *Anal. Chem. Acta*, 461, 1-36.
- Kailasapathy, K., 2002, Microencapsulation of Probiotic Bacteria: Technology and Potential Applications, *Curr. Issues Intest Microbiol.*, 3(2), 39-48.
- Kaim, W., and Schewederski, B., 1994, *Bioinorganic Chemistry: Inorganic Element in the Chemistry of Life an Introduction and Guide*, John Wiley and Sons Inc, Chichester.
- Kennedy, J., and Melo, E.H.M., 1999, *Immobilized Enzyme and Cells*, University of Birmingham, Birmingham.
- Khopkar S., 2007, *Konsep Dasar Biokimia*, UI Press, Jakarta.
- Krasaekoopt, W., Bhandari, B., and Deeth, H., 2003, Evaluation of Encapsulation Techniques of Probiotics for Yoghurt, *Int. Dairy J.*, (13), 3-13.
- Kuswandi, B., 2010, *Sensor Kimia Teori, Pendek dan Aplikasi*, Jember University press, Jember.
- Minovska, V., Winkelhausen, E., and Kuzmanova, S., 2005, Lipase Immobilized by different Techniques in Various Support Material Applied in Oil Hydrolysis, *J. Serb. Chem. Soc.*, 4(70), 609-624.
- Nouredini, H., Gao, X., and Ohilkana, R.S., 2005, Immobilized Pseudomonas Cepacia Lipase for Biodiesel Fuel Production from Soybean Oil, *Bio. Tech.*, 96(7), 769-777.
- Nuryono, Narsito, and Astuti E., 2008, Encapsulation of Horseradish Peroxidase Glucose Oxidase (Hrp=Gox) in Silica Aquagel Synthesized from Rice Hull Ash for Enzymatic Reaction of Glucose, *Indo. J. Chem.*, 8(2), 169-176.
- Oscik, J., 1982, *Adsorption*, Ellis Horwood limited, New York.
- Peters, T.J., 1985, Serum Albumin, *Adv. Protein Chem.*, (37), 161-245.

- Purwanto, M.G.M., 2014, Perbandingan Analisa Kadar Protein Terlarut dengan berbagai Metode Spektroskopi *Uv-Visible*, *J. Teknosains*, 2(7), 64-71.
- Rahman, I., Ab., and Padavettan V., 2012, Synthesis of Silica Nanoparticles by Sol-Gel: Size-Dependent Properties, Surface Modification, and Applications in Silica-Polymer Nanocomposites A Review, *J.Nanomater.*, (12), 1-15.
- Rohman, A., Harsojo, Raharjo, T.J., Siswindari, Triyana, K., dan Astuti, P., 2012, *Analisis Makanan dan Lingkungan secara Fisika dan Kimia*, Pustaka Pelajar, Yogyakarta.
- Sassolas A., Blum, L. J., and Bouvier, B.D.L., 2009, New Electrochemiluminescent Biosensors Combining Polylyminol and an Enzymatic Matrix, *Anal. Biochem*, 394, 971-980.
- Schubert, U., and Housing, E., 2000, *Synthesis of Inorganic Materials*, Wiley-VCH, Weinheim.
- Scott, R.P.W., 1993, *Silica Gel and Bonded Phase, Their Production, Properties and use in LC*, John Willey and Sons, Toronto.
- Tarushi, A.C., Raptopoulou, P., Psycharis, V., Terzis, A., Psomas, G., and Kessissoglou, D.P., 2010, Zinc(II) Complexes of the Second-Generation Quinolone Antibacterial Drug Enrofloxacin: Structure and DNA or Albumin Interaction, *Bioorganic Med. Chem.*, 7(18), 2678-2685.
- Weintaub, S., 2002, Demystifying Silica Gel in Objects Specialty Groups Postprints, *JAIC.*, (9), 1-24.