DAFTAR PUSTAKA

Aegerter, Michel A., Michel Prassas, Nicholas Leventis, dan Mathias M. Koebel, 2011, *Aerogel Handbook*, Springer Science Business Media, London.

Asip, F., Afrizal, R dan Rosa, S.S., 2008, Pembuatan Oil Adsorbant dari Eceng Gondok, *Jurnal Teknik Kimia*, Vol. 4, No. 15, hal 44-49.

Atkins, P.W., 1999, *Kimia Fisika 2*, Erlangga, Jakarta .

Bayat A., Aghamiri S. F., Moheb A., dan Vakili-Nezhaad G. R., 2005 Oil Spill Cleanup from Sea Water by Sorbent Materials. *Journal of ChemicalEngineering Technology*, Vol. 8, No. 12, hal 1525-1528.

Bhagat, S. D., Kim, Y. H., Ahn, Y. S., dan Yeo, J. G., 2007, Rapid synthesis of water-glass based aerogels by in situ surface modification of the hydrogels, *Applied Surface Science*, Vol. 253, No. 6, hal 3231-3236.

Bigelow, W.C., Pickett, D.L., dan Zisman, W.A., 1946, Oleophobic monolayers : I, Films adsorbed from solution in non-polar liquids, *J. Colloid Sci*.,Vol. 1, hal 513– 538.

Bramantya ., Yonando, L.P., dan Rifaldi, M., 2018, Sintesis dan Karakterisasi Silika Aerogel Hidrofobik dan Oliofilik Dari Pasir Laut Sebagai Absorben Tumpahan Minyak, *Jurnal Teknik Kimia Dan Lingkungan*, Vol.2, No.2, hal 49-54.

Cutler J., Cleveland, Peter S., 2010 *Exxon Valdez oil spill*, Encyclopaedia of Earth, Washington, DC.

Daryanto, 1995 *Masalah Pencemaran*, Tarsito, Bandung .

Dionísio, M., dan Sotomayor, J., 2000, A Surface Chemistry Experiment Using an Inexpensive Contact Angle Goniometer, *J. Chem. Educ*.,Vol. 77, No 59, hal 59-62.

Dong H., 2002, Organic-Inorganic hybrid mesoporous silica xiii materials and their application as host matrix for protein molecules, *Disertasi*, Drexel University, Philadelphia.

Ebnesajjad, S., dan Ebnesajjad, C., 2013, *Surface Treatment of Materials for*

Adhesive Bonding, William Andrew, Norwich.

Fairus S., 2009, Proses Pembuatan Waterglass dari Pasir Silika dengan Pelebur Natrium Hidroksida, *Jurnal Teknik Kimia Indonesia*, Vol. 8, No. 2, hal 56-62.

Fessenden, R.J. and Fessenden, J.S., 1982, *Kimia Organik*, Erlangga, Jakarta.

Gaol, L.D.L. 2001, Studi Awal Pemanfaatan Beberapa Jenis Karbon Aktif Sebagai Adsorben, *Thesis*, UI, Depok.

Gurav, J. L., Jung, I.-K., Park, H.-H., Kang, E. S., dan Nadargi, D. Y., 2010, Silica Aerogel: Synthesis and Applications, *Journal of Nanomaterials*, Vol. 45, No.2, hal 1–11.

Gurav J.L., Rao A. V., Nadargi D. Y., dan Park H.H., 2010, Ambient Pressure Dried TEOS-based Silica Aerogels: Good Absorbents of Organic Liquids, *Journal of Materials Science*, Vol. 45, No.2, hal 503-510.

Hamidah, N., Meta F .R., Setyawan, H., dan Affandi, S., 2012. Pelapisan Hidrofobik Pada Kaca Melalui Metode Sol-Gel Dengan Precursor Waterglass, *Jurnal Teknik Pomits*,Vol. 1 No. 1, hal 1-4.

Karan, C.P., Rengasami, R.S dan Das, D. 2011. Oil Spill Clean Up by Structured Fibre Assembly, *Indian Journal of Fibre & Textile Research*, Vol. 36, hal 190-200.

Matheson, 2009, *Material Safety Data Sheet : Tetra Ethyl Ortho Silicate*, Matheson Tri Gas, United State.

Mujiyanti, D.R., Nuryanto dan Eko, S.K., 2010, Sintesis Dan Karakterisasi Silika Gel Dari Abu Sekam Padi Yang Dimobilisasi Dengan 3-(Trimetoksisilil)- Propantiol, *Sains Dan Terapan Kimia* Vol.4, No. 2, hal 150-167.

Nguyen, T.H., Mai, N.T., Reddy, V.R.M., Jung, J.H., dan Truong, N.T.N., 2020, Synthesis Of Silica Aerogel Particles And Its Application To Thermal Insulation Paint, *Korean J. Chem. Eng*, Vol. 37, No. 10, hal 1803-1809.

Olalekan A.P., Dada A.O., dan Olusola A., 2014, Review: Silica Aerogel as a Viable Absorbent for Oil Spill Remediation, *Journal of Encapsulation and Adsorption Sciences*, Vol. 4, hal 122-131 .

Okuyama, K., Abdullah, M., Lenggoro, I. W., dan Iskandar, F. 2006. Preparation of functional nanostructured particles by spray drying, *Advanced Powder Technology*, Vol.17, No.6, hal 587-611.

Osipow, L.S. 1962, *Surface Chemistry : Theory and Industrial Applications*, Reinhold Publishing Cooporation, New York.

Pierre .A.C., dan Rigacci, A., 2011, *Aerogels Handbook*. Springer, New York.

Pajonk, G. M. (1998). Transparent silica aerogels. *Journal of Non Crystalline Solids*, No.225, hal 307–314.

Rahmayanti H., 2006, Pencemaran Laut Oleh Minyak, *Jurnal Teknik Sipil* Vol. 1, No. 1, hal 63-74.

Saniah S., Purnawan S., dan Karina S., 2014, The Characteristics and Mineral Content of Coastal Sand from Lhok Mee, Beureunut and Leungah, Aceh Besar District Depik, *Jurnal Ilmu-Ilmu Perairan, Pesisir, dan Perikanan*, Vol.3, No.8, hal 263-270.

Saragih, S.A. 2008, Pembuatan dan Karakterisasi Karbon Aktif dari Batubara Riau sebagai Adsorben, *Skripsi*, UI, Depok.

Shi, M., Tang, C., Yang, X., Zhou, J., Jia, F., Han, Y., dan Li, Z., 2017, Superhydrophobic Silica Aerogels Reinforced with Polyacrylonitrile Fibers for Adsorbing Oil From Water and Oil Mixtures. *RSC Advances*, Vol. 7, hal 4039-4045.

Smith, D.M., Deshpande, R., dan Brinker, C.J., 1992, Better ceramics through chem-istry V, *Materials Research Society Symposium Proceedings*, San Francisco.

Socrates *G.*, 2001, *Infrared and Raman Characteristic Group Frequencies: Tables and Charts*, Wiley, Chicheste.

Soleimani Dorcheh, A., dan Abbasi, M. H., 2008, Silica aerogel; synthesis, properties and characterization, *Journal of Materials Processing Technology*, Vol.199, No.1, hal 10–26.

Speight, J.G., 1991, *The Chemistry and Technology of Petroleum*, Marcel Dekker Inc, New York.

Stuart, B.H., 2004, *Infrared Spectroscopy: Fundamentals and Applications*, John Wiley & Sons Ltd, West Sussex.

Sukardjo., 1990, *Kimia Anorganik*, Rineka Cipta, Jakarta.

Ummah, I. L., 2013, Sintesis Silika Gel Menggunakan Metode Sol-Gel Dan Aplikasinya Terhadap Absorpsi Kelembaban Udara. *Jurnal Inovasi Fisika Indonesia*, Vol. 02, No. 03, hal 23-26.

Uzma, K.H.B., dan Rao A. V., 2008, A. Parvathy Rao, A new route for preparation of sodium silicate based hydrophobic silica aerogels via ambient pressure drying, *Science and Technology of Advanced Materials*, Vol.9, No.3, hal 29-39.

Wong, J.X.H., dan Yu, H.-Z., 2013, Preparation of Transparent Superhydrophobic Glass Slides: Demonstration of Surface Chemistry Characteristics, *J. Chem. Educ*., Vol. 90, hal 1203–1206.

Zaemi, H., Tjahjanto, R.T., dan Darjito, 2013, Sintesis Silika Aerogel Dari Lumpur Lapindo Dengan Penambahan Trimetilklorosilan (TMCS), *Kimia. Student Jurnal*, Vol. 1, No. 2, hal 208-214.

Zhang W., Zhang Y., Lu C., dan Deng Y., 2012, Aerogels from crosslinked cellulose nano/micro-fibrils and their fast shaper ecovery property in water, *J. Mater. Chem.*, Vol.22, No. 23, hal 11642-11650.

Zulfikar, M.A., Tjahjanto, R.T., dan Darjito,2014, Pengaruh pH dan Konsentrasi TMCS Pada Sintesis Aerogel Silika Dari Waterglass, *Kimia.Student journal*, Vol. 1, No. 1, hal 78-84.