

## DAFTAR PUSTAKA

- Andou, M., Tsunooka, T., Higashida, Y., Sugiura, H. and Ohsato, H., Development of high Q forsterite ceramics for high-frequency applications. MMA2002 Conference, 1–3 September 2002, York.
- Anonim A. 2012. <http://www.material.com/docs/115028965/makalah-fisika> Diakses 3 September 2012. Pukul 13.00 PM.
- Anonim B. 2011. *Magnesium Nitrat Heksahidrat*. <http://www.galleries.com/minerals/magnesium/magnesium/nitrat.htm>. Diakses tanggal 20 Oktober 2012. Pukul 10:00 PM.
- Asmuni. 2006. “Karakterisasi Pasir Kuarsa dengan metode XRD”. FMIPA USU. <http://www.yahoo.com>.
- Barsoum, M.W. 1997. *Fundamental of Ceramics*, 1<sup>st</sup> Edition. McGraw-Hill. Singapore. Page 114-118.
- Brady, G. and Clauser, H. 1989. *Material Handbook*. Thirteenth Edition. McGraw-Hill, In. United State. Pp 475.
- Brindley, GW., and Brown, G. 1980. *Crystal Structures of Clay Minerals and Their X-Ray Identification*. Mineralogical Society, London. Hal. 312-316, 378-380.
- Brinker, C.J. and Scherie, G.W. 1990. *Sol Gel Science: The Physics and Chemistry Of Sol Gel Processing*. Academic Press. New York. Pp 302.
- Brucato J.R., Mennella V., Colangeli L., Rotundi A., Palumbo P., 2002, *Production and processing of silicates in laboratory and in space*, Planet. Space Sci., 50, 829-837.
- Charles D. Eggleton and Kathleen J. Stebe. 1998. “An Adsorption–Desorption-Controlled Surfactant on a Deforming Droplet”. *Journal of Colloid and Interface Science* 208, 68–80. Article NO. CS985816.

- Chatterjee, M and Naskar M.K (2006), "Sol-Gel Synthesis of Lithium Aluminium Silicate Powders; The Effect of Silica Sources", *Ceramic International*, 32, 623 – 632.
- Cheng, J.M and Chang, F.W. 1991. "The chlorination Kinetics of Rice Husk", *Indian Engineering Chemical Research* 30, 2241-2247.
- Cheng, T.W., Ding, Y.C., Chiu, J.P., 2002. A study of synthetic forsterite refractory materials using waste serpentine cutting. *Minerals Engineering* 15 (2002) 271–275.
- Cloutimon, P. Kitchaiya and P. Assawasaengrat. 2011. Magnetic separation of fatty acids with iron oxide nanoparticles and application to extractive deacidification of vegetable oils. *Engineering Journal* 15 (2011).
- Cloutimon, Weerawat, Prakob Kitchaiya, and Pornsawan Assawasaengrat. 2011. "Adsorption Of Freefatty Acid From Crude Palm Oil On Magnesium Silica Derived From Rice Husk". Vol.15. No.3.
- Connolly J. 2003. Introduction to X-Ray Powder Diffraction. EPS 400-002.
- Cullity, B.D. 1978. Element of X-Ray Diffraction, 2<sup>nd</sup> Edition. Adison-Wesley Publishing Company Inc, Usa. Hal. 1, 87.
- Daifullah, A.A.M., Awwad, N.S., and El-Reefy. 2004. "Purification of Phosphoric Acid from Ferric Ion Using Modified Modified Rice Husk". *Chemical Engineering and Processing*, 43, 193-201.
- Daifullah, A.A.M., Girgis, B.S. and Gad, H.M.H. 2003. Utilization of Agro-Residues (Rice Husk) in Small Waste Water Treatment Plans. *Material Letters*. Vol 57. Pp 1723-1731.
- Deer, W.A., Howie, R.A., Zussman, J., 1992. In: An Introduction to the Rock-Forming Minerals. Longman, New York, p. 348.
- Dorre and Hubner.(1984)."Alumina, Library of Congress Cataloging in Publication Data". Cambridge.
- Deer, Howie and Zussman, 1966."An Introduction to the Rock Forming Minerals". Longmans, Green and Co.Ltd, London.
- Della, V.P., Kuhn, I., and Hotza, D. 2002. "Rice Husk Ash an Alternate Source for Active Silica Production". *Materials Letters*, 57.818 – 821.
- Fabian D., Jager C., Henning Th., Dorschner J., Mutschke H., 2000, Steps toward interstellar silicate mineralogy. - V. Thermal evolution of amorphous magnesium silicates and silica, *Astron. Astrophys.*, 364, 282-292.

- Giancoli. 1998. "Physics fifth Edition". Penerjemah. Jakarta : Erlangga. Terjemahan dari : Prentice Hall.
- Giancoli, D.C. 1984. Physics for scientist and Engineers, 2<sup>nd</sup> Edition. Prentice Hall, Englewoog Cliffs, New Jersey. Hal. 821.
- Golubera O., Korytkova E.N., Gusarov V.U., 2005, "Hydrothermal synthesis of magnesium silicate montmorillonite for polymer-clay nanocomposites", Russ. J. Appl. Chem., 78(1), 26-32.
- Griffin, B.J., and Riessen, V.A. 1991. Scanning Elctron Microscopy Course Notes. The University of Western Australia, Nedlands. Hal. 1-8.
- Grisdanurak, N, Chiarakorn, S, Wittayakun, J, (2003), "Utilization of Mesoporous Molecular Sieve Synthesized from Natural Source Rice Husk Silica to Chlorinated Volatile Organic Compunds (CVODCs) Adsorption" Korean, *J.Chem. Eng*, 20, 950-955.
- Hamdan, H., Nazlan, M., Muhid., Endud, S., Listiorini, E. and Ramli, Z. 1997. Si MAS NMR, XRD and FESEM studies of Rice Husk Silica for the Synthesis of Zeolites. *Journal Of Non-Crystalline Solids*. Vol 211. Pp 126-131.
- Hidayat, W. 2007. "Katalis dan Produksinya di Indonesia". Harian umum kompas- situs masyarakat katalis Indonesia.
- Hamdila, Jayanti D. 2012. "Pengaruh Variasi Massa Terhadap Karakteristik Fungsional Dan Termal Komposit Magnesium Silikat Berbasis Silika Sekam Padi Sebagai Katalis". Universitas Lampung. Bandar Lampung.
- Han, H.W and Lliu, H.S. 1999. Characterization of vapor Deposited Products in Furnace Tube during SiC Synthesis from Carbonized Rice Hulls. *Ceramics International*. 25:631-637.
- Harsono, H. 2002. Pembuatan Silika Amorf Dari Limbah Sekam Padi. *Jurnal Ilmu dasar* Vol. 3, No. 2, 2002 : 98 – 103.
- Haslinawati, M.M., K.A.Matori., Z.A.Wahab., H.A.A.Sidek., and A.T.Zainal. 2011. Effect of Temperature on Ceramic from Rice Husk Ash. *International Journal of Basic & Applied Sciences IJBAS*. Vol: 9 No: 9.
- Hendayana, S., et al. (1994). *Kimia Analitik Instrumen*. Semarang: IKIP Semarang Press.
- Hildayati, Triwikantoro, Heny Faisal, Sudirman. 2009. "Sintesis dan Karakterisasi Bahan Komposit Karet Alam-Silika". Seminar Nasional Pascasarjana IX – ITS, Surabaya 12 Agustus 2009 ISBN.

- Huang, B.L., 1987. In: Minerals Differential Thermal Analysis Handbook. Scientific Press, p. 501.
- Ikram, N. and Akhter, M. 1988. "X-ray Diffraction Analysis of Silicon Prepared From Rice Husk Ash. *Journal Of Materials Science*". University Of The Punjab. Pakistan. Vol 23. Pp 2379-2381.
- James, S.R. 2002. the 22<sup>nd</sup> edition of the Manual of Mineral Science, published by John Wiley & Sons, 641 P.
- J.Cejka,N.Zilkova,P.Nachtigal."Molecular Sieves: From Basic Research to Industrial Applications". Proceedings of the 3rd International Zeolite Symposium (3rd FEZA) Prague, Czech Republic, August, 23-26, 2005.
- Jing, Li., Wang Qi., Liu Jihui., and Li Peng. 2009. Synthesis process of forsterite refractory by iron ore tailings. *Journal of Environmental Sciences Supplement*. S92–S95.
- Kalpathy, C., Protor, A. and Shultz, J. 2000. "A Simple Method for Production of Pure Silica From Rice Husk Ash". *Biosorce Teknology*. Vol 73. Pp 257-264.
- Katsuki, H, Furuta, S, Watari, T, Komarneni, S, (2005)," ZSM-5/Zeolite/Porous Carbon Composite: Conventional and Microwave Hydrothermal synthesis from Carbonized rice Husk", *Microporous and Mesoporous Materials*, 86, 145-151.
- Kharaziha, M and Fathi, M.H. 2010. Improvement of mechanical Properties and Biocompatibility Of Forsterite Bioceramic Addressed To Bone Tissue Engineering Materials. *Journal Of The Mechanical Behavior Of Biomedical Material S3* (2010) 530-537.
- Kharaziha, M and Fathi, M.H. 2009. Synthesis and characterization of bioactive forsterite nanopowder. *Ceramik Internasional* 35. Hal 2449-2454.
- Kingery, W.D, Bowen, H.K., and Uhlman, D.R., 1976, Introduction to Ceramics, second edition, published by John Wiely & Sons, 1032P.
- Kroschwitz, J, John Wiley and Sons.1990."Polymer Characterisation and Analysis". Canada.
- Kumer, D., Schumucher, K., and Unger, K (2001), "MCM-41, MCM-48 and Related Mesoporous Adsorbens the Synthesis and Characterization", *Colloids and Surfaces A, Physisochem, Eng Aspect*, 187, 109-116.
- Marko Haertelt , André Fielicke , Gerard Meijer , Karolina Kwapien , Marek Sierka and Joachim Sauer. 2012. "Structure determination of

neutral MgO clusters-hexagonalnanotubes and cages. *Phys. Chem. Chem. Phys.*, Vol.14, Hal. 2849-2856.

Matthews, F.L. Wong C.M and Chrysafisis S. "Stress Distribution Around a Single Bolt in Fiber Reinforced Plastic". *Composite*, Vol.13. 1986, pp.316-322.

Mitchell, Matthew B.D. David Jackson dan Peter F. James. 1998. Preparation and characterisation of forsterite ( $Mg_2SiO_4$ ) aerogels. *Journal of Non-Crystalline Solids* 225. Hal 125–129. Department of Engineering Materials: University of Sheffield.

Na'fiah, Choiron. (2008c), "Pengaruh Komposisi KOH Pada Sintesis Zeolit dari Abu Layang Batubara", Tesis, ITS, Surabaya.

Nagamori, M., Plumpton, A.J., Houillier, R.Lo, 1980. The activation and chemical utilization of asbestos tailings – a reviews. *Industrial Mineral*, 144–156.

Ni.Siyu., Lee Chou and Jiang Chang. 2007. *Preparation and characterization of forsterite ( $Mg_2SiO_4$ ) bioceramics*. *Ceramics International* 33 (2007) 83-88.

Nikaido, M., Sano, S., Yoshizawa Y., Saito, F. 2000. Effects of Dry Grinding of Poder Mixture on Formation of Forsterite in Sintered Body and Its Mechanical Properties. *Journal of Chemical Engineering of Japan*. 33(5)709-714.

Paja.J, Monzo.J, Borrachero M.V, Mellado. A, Ordonez I.M., (2001), "Determinati on of Amorphous Silica in Rice Husk Ash by a Rapid Analytical Method", *Cement and Concrete Research*, 31, 227-231.

Purawiardi, R., 1999. "Karakteristik zeolit alam asal Bayah Sukabumi Jawa Barat", *Buletin IPT*, 1, V, 6-12.

Purwamargapratala, Yustinus. 2009. "Superkonduktor  $YBa_2Cu_3O_{7-x}$  secara Kopesipitasi". Aplikasi Industri Nuklir Pusat Teknologi Bahan Industri Nuklir (PTBIN) – BATAN Kawasan PUSPIPTEK.Serpong.Tangerang.

Rahman, M.IA. 1995. *Penggunaan Sekam Padi Dalam Penghasilan Bahan Nitrida*. Abstrak. BalaiPasca. Jakarta.

Reynaldi Elmir Arisurya. 2009. *Laju Adsorpsi Isotermal  $\beta$ -Karoten dari Metil Ester Minyak Sawit dengan Menggunakan Atapulgit dan Magnesium Silikat Sintetik*. Universitas Negeri Semarang.

Ristic. M.M. 1989. *New Development Sintering*, Elsevier Scientific Publishing Company, Vol.4, Netherland.

- Riveros, H. and Garza. C. 1986. Rice Husk as a Source of High Purity Silica. *J. Crystall Growth* 75: 126-31
- Romero, J.N; Reinggo, F.R (1996), "Synthesis SiC from Rice Husk Catalyzed by Iron, Cobalt or Nickel", *Journal Materials Science*, 31, 779-784.
- Saberi, Ali., Babak Alinejad., Zahra Negahdari., Faramarz Kazemi dan Ali Almasi. 2007. A novel method to low temperature synthesis of nanocrystalline forsterite. *Materials Research Bulletin* 42. Hal 666–673.
- Sebayang, Perdamean., Mulyadi dan Hans Sudjono. 2002. Pengaruh Komposisi MgO Terhadap Sifat Fisis dari Bahan Keramik Teknik Berbasis MgO - SiO<sub>2</sub>. *Bahan Konduktor Padat Indonesia*. Forum Bahan Konduktor Padat: Balai Besar Teknologi Energi. Vol: 3. No: 1. Hal: 28-32.
- Sembiring, S dan Karo-Karo, K, (2007), "Pengaruh suhu Sintering Terhadap Karakteristik Termal dan Mikrostruktur Silika Sekam Padi, *jurnal Sains dan Teknologi*, Mipa Unila
- Sembiring, S. 2008. Karakteristik Keramik Cordierite Berbasis Silika Sekam Padi Pada Temperatur Rendah (Low Temperatur). *Prosiding Seminar Nasional Sains dan Teknologi-II*. Universitas Lampung. Lampung.
- Setiawan, Agus. 2008. *Perencanaan Struktur Baja dengan Metode LRFD*. Jakarta : Erlangga.
- Sriyanti, Taslimah, Nuryono dan Narsito. 2005. *Sintesis Bahan Hibrida Amino-Silika Dari Abu Sekam Padi Melalui Proses Sol-Gel*. Jurusan Kimia FMIPA Universitas Diponegoro. Semarang. Vol: 8. No: JKSA.
- Shinohara, Yasushi and Kohyama, Norihiko. 2004. *Quantitative Analysis of Tridymite and Cristobalite Crystallized in Rice Husk Ash by Heating*. *Industrial Health*, 42. Hal: 277–285.
- Singh, S. K., Mohanty, B. C and Basu, S. 2002. Synthesis of SiC from rice husk in a Plasma Reactor. *Bull. Mater. Sci.* 25(6): 561–563.
- Siriluk and Yuttapong (2005), "Structure of Mesoporous MCM-41 .Prepared from Rice Husk Ash", *Asian Symposium on Visualization, Chaingmai, Thailand*.
- Smith, W.F, (1990), "Principles of Material and Science Engineering, Third Edition McGraw-Hill.Inc. USA.
- Strack H., Klenschmit P., 1987, Magnesium-silicate bound zeolite granulates of the type of zeolite A, process for their production and use, U.S. Patent No. 4668648.

- Suka, IG. Simanjuntak, W., Sembiring S. dan Trisnawati E. 2008. “Karkteristik Silika Sekam Padi Dari Provinsi Lampung yang Diperoleh Dengan Metode EstraksiI”. Seminar Rekayasa Kimia dan Proses 2010.ISSN : 1411-4216. Tahun 37, Nomor 1, Januari 2008, hlm. 47-52.
- Tavangarian, F dan R. Emadi. 2010. Synthesis Of Pure Nanocrystalline Magnesium Silicate Powder. *Ceramics-Silikaty*. Isfahan University Of Teknologi (IUT). Vol: 52. No:2. Hal 122-127.
- Verhoeven, JD. 1986. ASM Handbook Material Characterization, Vol 1, Scanning Electron Microscopy. USA.
- Vlack, V. 1994. *Ilmu dan Teknologi Bahan (Ilmu Logam dan Non Logam)*, Edisi kelima. Alih Bahasa Sriati Djaprie. Fak. Teknik Metalurgi. Universitas Indonesia. Cetakan ke-empat Erlangga. Jakarta.
- Won, Seok dan Jun Jun . 2010. “High-Quality Low-Temperature Silicon Oxide by Plasma-Enhanced Atomic Layer Deposition Using a Metal–Organic Silicon Precursor and Oxygen Radical”. *Journals & Magazines Dept. of Mater. Sci. & Eng.*Seoul Nat. Seoul Univesity.South Korea Volume: 31. Hal. 857-859.
- Yalçın,N., Sevinç,V., (2001),“Studies on silica obtained from rice husk”, *CeramicInternational*, 27, 219 – 224.
- Young Kwon Park, Sun Young Kim, Hyeon Joo Kim, Kyeong Youl Jung,Kwang-Eun Jeong, Soon-Yong Jeong, Jong-Ki Jeon. 2012. “Removal of sulfur dioxide from dibenzothiophene sulfone over Mg-based oxide catalysts prepared by spray pyrolysis”. *Korean Journal of Chemical Engineering* (imp act factor: 0.99). 05/2012; 27(2):459-464.DOI:10.2478/s11814-010-0086-x..
- Yuliusman , Widodo WP, Yulianto S.N, Yuda. 2008. “Preparasi Zeolit Alam Lampung dengan Larutan HF, HCl dan Kalsinasi untuk Adsorpsi Gas CO”. Departemen Teknik Kimia, Fakultas Teknik Universitas IndonesiaKampus UI, Depok 16424, Indonesia.