

Daftar Pustaka

- Andreasen, J. O., Munksgaard, E. C., and Bakland, L. K., 2006, Comparison of fracture resistance in root canals of immature sheep teeth after filling with calcium hydroxide or MTA, *Dent Traumatol*, 22(3), 154–156. <https://doi.org/10.1111/j.1600-9657.2006.00419.x>
- Asgary, S., Eghbal, M. J., Parirokh, M., Ghoddusi, J., Kheirieh, S., and Brink, F., 2009, Comparison of Mineral Trioxide Aggregate's Composition with Portland Cements and a New Endodontic Cement, *JOEN*, 35(2), 243–250. <https://doi.org/10.1016/j.joen.2008.10.026>
- Asgary, S., Parirokh, M., Eghbal, M. J., and Brink, F., 2005, Chemical differences between white and gray mineral trioxide aggregate, *J Endod*, 31(2), 101–103.
- Bakri, R., Utari, T., dan Sari, I.P., 2008, Kaolin sebagai Sumber SiO₂ untuk Pembuatan Katalis Ni/SiO₂ : Karakterisasi, Uji Katalis pada Dehidrogenasi Benzena menjadi Sikloheksana, *J Sains*, 12(1), 37-43.
- Bakri, 2009, Komponen Kimia dan Fisik Abu Sekam Padi sebagai SCM untuk Pembuatan Komposit Semen, *J Perennial*, 5(1): 9-14.
- Basturk, F., Nekoofar, M., DolBoe, Gunday, M., dan Dummer, P., 2015, Effect of Varying Water-to-Powder Ratios dan Ultrasonic Placement on The Compressive Strength of Mineral Trioxide Aggregate, *J Endod*, 41 (4), 531-534.
- Camilleri, J., Montesin, F. E., Brady, K., Sweeney, R., Curtis, R. V., and Ford, T. R. P., 2005, The chemical composition of mineral trioxide aggregate The constitution of mineral trioxide aggregate, *Dent Mater*, 21, 297–303.
- Camilleri, J., 2008, The chemical composition of mineral trioxide aggregate, *J Conserv Dent*, 11(4), 141.
- Chandra A, Miryanti, A, Widjaja, L.B, dan Pramudita, A., 2012, *Isolasi dan Karakterisasi Silika dari Sekam Padi*, Lembaga Penelitian dan Pengabdian pada Masyarakat, Universitas Khatolik Parahyangan.
- Chen, S., Shi, L., Luo, J., dan Engqvist, H., 2018, A Novel Fast-setting Mineral Trioxide Aggregate: Its Formulation, Chemical-physical Properties and Cytocompatibility, *ACS Appl. Mater. Interfaces*, 1-25.
- Chiang, T., Wei, C.-K., and Ding, S.-J., 2014, Effects of Bismuth Oxide on Physicochemical Properties and Osteogenic Activity of Dicalcium Silicate Cements, *Med Biol Eng*, 34(1), 30–35.
- Cox, C., Keall, C., and Bergenholtz, G., 1987, Biocompatibility of surface-sealed against exposed pulps dental materials, *J Prosthetic Dent*, 163(2), 292.

<https://doi.org/10.1097/00000441-192202000-00014>

- Danesh, G., Dammaschke, T., Gerth, H., Zandbiglari, T., dan Schafer, E, 2006, A Comparative Study of Selected Properties of ProRoot Mineral Trioxide Aggregate and Two Portland Cements, *Inter Endo J*, 39, 213-219.
- Farmosa, L., Mallia, B., dan Camilleri, J, 2013, Mineral Trioxide Aggregate with Anti-washout Gel-Properties and Microstructure, *Dent. Mater*, 29, 294-306.
- Febrianto, E dan Indayaningsih, N., 2009, Pengaruh Dopan Y_2O_5 , Er_2O_3 , dan CaO terhadap Sifat Fisis dan Konduktivitas Bismuth Oxide (Bi_2O_3) sebagai elektrolit padat pada sistem SOFC, *J Fisika HFI*, 9 (1),12-19.
- Fernandes,I., Calheiro, D., Sanchez, F., Camacho, A., Rocha, T., Moraes, C., dan Sousa, V, 2017, Characterization of Silica Produced from Rice Husk Ash: Comparison of Purification and Processing Methods, *Mater Res*, 20(2), 412-518.
- Fridland, M and Rosado, R., 2003, Mineral Trioxide Aggregate (MTA) Solubility and Porosity with Different Water-to-powder Ratios, *JOE*, 29(12), 814-817.
- Ghasemi, N., Rahimi, S., Shahi, S., Milani, A., Rezaei, Y., dan Nobakht, M., 2016, Compressive Strength of Mineral Trioxide Aggregate with Propylene Glycol, *IEJ*, 11(4), 325-328.
- Ginanjari, R. R., Mulyadi, A. H., Biologi, F., dan Soedirman, U. J., 2014, Ekstraksi Silika Dari Abu Sekam Padi Menggunakan Pelarut NaOH, *Prosiding Seminar Nasional Hasil-hasil Penelitian dan Pengabdian UMP 2014*, 3, 306–312.
- Grazziotin-Soares, R., Nekoofae, M., Davies, T., Bafail, A., Alhaddar, E., Hubler, R., Busato, A., dan Dummer, P, 2014, Effect of Bismuth Oxide on White Mineral Trioxide Aggregate: Chemical Characterization and Physical Properties, *Inter. Endo. J*, 47(6), 520-533.
- Hamid, H., Abo-Elmagd, H., dan Radwan, M., 2017, Synthesis, Characterization, and Antimicrobial Activity of Nano-crystalline Tricalcium Silicate Bio-cement, *J Appl Pharm Sci*, 7(10), 001-008.
- Hench, L. L., dan West, J. K., 1990, The Sol-Gel Process, *Chem Rev*, 90(1), 33–72. <https://doi.org/10.1021/cr00099a003>
- Hernandez-Delgadillo, R., Chellam, S., Angel-Mosqueda, C., dan Cabral-Romero, C, 2017, Antimicrobial and Antibiofilm Activities of MTA Supplemented with Bismuth Lipophilic Nanoparticles, *Dent. Mater. J*, 1-8
- Ismail, N. A. A., Azmi, M. A., Ahmad, S., dan Taib, H., 2014, Effect of Rice Husk Firing Temperature on Synthesis of Silica (SiO_2), *Inter Conference*

on X-Ray and Related Techniques in Research and Industry 2014 Vol. 20, pp. 183–184).

- Iwaida, T., Nagasaki, S., dan Tanaka, S, 2001, Sorption Behavior of Strontium onto C-SH (Calcium-Silicate Hydrated Phase), *Surface Sci Catal*, 901-905.
- Ji, D., Wu, H., Hsieh, S., Teng, N., Chen, C., Ke, E., Lin, Y., Lee, S., dan Yang, J., Effect of a Novel Hydration Accelerant on the Biological and Mechanical Properties of White Mineral Trioxide Aggregate, *JOE*, 37(6), 851-855.
- Kamath, S. R., and Proctor, A., 1998, Silica gel from rice hull ash: Preparation and characterization, *Cereal Chem*, 75(4), 484–487.
- Kim, M., Yang, W., Kim, H, dan Ko, H, 2014, Comparison of Biological Properties of ProRoot MTA, OrthoMTA, and Endocem MTA Cements, *JOE*, 1-5.
- Kogan, P., He, J., Glickman, G., and Watanabe, I., 2006, The Effects of Various Additives on Setting Properties of MTA, *JOE*, 32(6), 569-572.
- Ladesma, A. F., Santana, F. B., Bucio, L., Arenas-Alatorre, J., Faraji, M., and Wintergerst, A., 2017, Bioactive materials improve some physical properties of a MTA-like cement, *Mater Sci Eng*, 71, 150–155.
- Lee, B., Lin, H., Chan, J., Wang, W., Hung, P., Tsai, Y., dan Lee, Y., 2018, A Novel Sol-Gel-Derived Calcium Silicate Cement with Short Setting Time for Application in Endodontic Repair Of Perforations, *Nanomedicine-UK*, 13, 261-271.
- Lee, J. C., Um, S. H., and Rhee, S. H., 2016, Synthesis of a mineral trioxide aggregate by spray-pyrolysis, *Ceram Int*, 42(2), 2263–2270. <https://doi.org/10.1016/j.ceramint.2015.10.020>
- Li, Q dan Coleman, N, 2015, The Hydration of ProRoot MTA, *Dent Mater J*, 34(4), 458-465.
- Macwan, C., and Deshpande, A., 2014, Mineral trioxide aggregate (MTA) in dentistry : A review of literature, *J Oral Res Rev*, 6(2), 71–74.
- Mansha, M., Javed, S. H., Kazmi, M., and Feroze, N., 2011, Study of Rice Husk Ash as Potential Source of Acid Resistance Calcium Silicate, *Adv Chem Eng Sci*, 01(03), 147–153.
- Manzano, H., Dolado, J., Griebel, M., dan Hamaekers, J, 2007, *A Molecular Dynamics Study of the Aluminosilicate Chains Structure in Al-rich Calcium Silicate Hydrated (C-S-H) Gels*, Institute for Numerical Simulation, University of Bonn, Germany.
- Meducin, F., Bresson, B., Lequeux, N., Noirfontaine, M., dan Zanni, H, 2007,

- Calcium Silicate Hydrate Investigated by Solid-state High Resolution ^1H and ^{29}Si Nuclear Magnetic Resonance, *Cem Concrete Res*, 37, 631-638.
- Onojah, A dan Amah, A, 2012, Comparative Studies of Silicon from Rice Husk Ash and Natural Quartz, *Am J Sci Ind Res*, 3(3), 146-149.
- Ozdemir, D., 2014, Dental Caries and Preventive Strategies, *J Edu Instr Stud*, 4(4), 4.
- Patil, R., Dongre, R., and Meshram, J., 2014, Preparation of Silica Powder from Rice Husk, *IOSR J*, 26-29.
- Prasad, K., and Naik, C. T., 2017, Mineral Trioxide Aggregate in Endodontics. *Inter J Appl Dent Sci Manipulation*, 3(1), 71-75.
- Rosalia, R., Asmi, D., dan Ginting, E, 2016, Preparasi dan Karakterisasi Keramik Silika (SiO_2) Sekam Padi dengan Suhu Kalsinasi 800 $^\circ\text{C}$ - 1000 $^\circ\text{C}$, *J Teori dan Aplikasi Fisika*, 4(1), 101-106.
- Saghiri, M., Lofti, M., Joupari, M., Aeinehchi, M., dan Saghiri, A, 2010, Effects of Storage Temperature on Surface Hardness, Microstructure, and Phase Formation of White Mineral Trioxide Aggregate, *JOE*, 36(8), 1414-1418.
- Sari, A. N., dan Untara, T. E., 2014, Root Canal Retreatment menggunakan Kombinasi Kalsium Hidroksida dan Chlorhexidine sebagai Medikamen Intra Kanal Insisivus Sentral Kiri Maksila. *Majalah Kedokteran Gigi*, 21(2), 165-170.
- Sarkar, N. K., Caicedo, R., Ritwik, P., Moiseyeva, R., and Kawashima, I., 2005, Physicochemical basis of the biologic properties of mineral trioxide aggregate. *J Endod*, 31(2), 97-100.
- Seong, K.-P., Jeon, S.-Y., Singh, B., Hwang, J.-H., and Song, S.-J., 2014, Comparative study of an experimental Portland cement and ProRoot MTA by electrochemical impedance spectroscopy, *Ceram Int*, 40(1), 1741-1746.
- Shelke, V. R., Bhagade, S. S., and Mandavgane, S. A., 2010, Mesoporous Silica from Rice Husk Ash. *B Chem React Eng Catal*, 5(2), 63-67. <https://doi.org/10.9767/bcrec.5.2.793.63-67>.
- Smallman, R.E and Bishop, R.J., 2000, *Mod Phys Metall Mater Eng*, Hill International Book Company: New York.
- Srinivasan, V., Waterhouse, P., and Whitworth, J., 2009, Mineral trioxide aggregate in paediatric dentistry, *Inter J Paediatr Dentistry*, 19(1), 34-47.
- Subbukhrisna, D. ., Suresh, K. ., Paul, P. ., Dasappa, S., and Rajan, N. K., 2007, Precipitated Silika from Rice Husk ASH By Ipsit Process, *15th Europ Biomass Conf Exhibition*, 2091-2093.

- Suka, I. G., Simanjuntak, W., Sembiring, S., dan Trisnawati, E., 2004, Karakteristik silika sekam padi dari provinsi lampung yang diperoleh dengan metode ekstraksi. *J MIPA*, 37(1), 47–52.
- Syukri, I., Hindryawati, N., dan Subagyono, R, 2017, Sintesis Silika dari Abu Sekam Padi Termodifikasi 2-Merkaptobenzotiazol untuk Adsorpsi Ion Logam Cd^{2+} dan Cr^{6+} , *J Atomic*, 2(2), 221-226.
- Tawil, P. Z., Duggan, D. J., and Galicia, J. C., 2015, Mineral trioxide aggregate (MTA): its history, composition, and clinical applications, *Compendium Continuing Edu Dentistry (Jamesburg, N.J. : 1995)*, 36(4), 247–52, 264.
- Todkar, B. S., Deorukhkar, O. A., and Deshmukh, S. M., 2016, Extraction of Silica from Rice Husk. *Inter J Eng Res Development*, 12(3), 2278–67.
- Torabinejad, M. (2014). *Application, Mineral Trioxide Aggregate : Properties and Clinical* (satu). California: Wiley Blackwell.
- Trivana, L., Sugiarti, S., dan Rohaeti, E., 2015, Sintesis Dan Karakterisasi Natrium Silikat (Na_2SiO_3). *J Sains dan Teknologi Lingkungan*, 7(2), 66–75.
- Ummah, S., Prasetyo, A., dan Barroroh, H, 2010, Kajian Penambahan Abu Sekam Padi dari Berbagai Suhu Pengabuan terhadap Plastisitas Kaolin, *Alchemy*, 1(2), 70-74.
- Voicu, G., Badanoiu, A., Ghitulica, C., dan Endronesu, E, 2012, Sol-Gel of White Mineral Tioxide Aggregate with Potential Use as Biocement, *J. Nanomater Biostruct*, 7(4), 1639-1646.
- Wang, W., Wang, C., Shyu, Y., Liu, C., Lin, F., dan Lin, C, 2010, Compositional Characteristics and Hydration behavior of Mineral Trioxide Aggregate, *J Dent Sci*, 5(2), 53-59.
- Yulianto, F dan Mukti, M, 2015, Pengaruh Penambahan Abu Sekam Padi pada Kuat Tekan Beton Campuran 1 pc: 2 ps: 3kr, *J Saintek*, 12(2), 74-78.