

Daftar Pustaka

- Akhavan, H., Mohebbi, P., Firouzi, A., dan Noroozi, M., 2016, XRD Analysis of ProRoot MTA Hydrated at Different Ph Values, *Iranian. Endod. J.*, 11(2), 111-113.
- Ahn, J.W., Kim, J.H., Park, H.S., Kim, J.A., Han, C., dan Kim, H., 2005, Synthesis Single Phase Aragonite Precipitated Calcium Carbonate In Ca(OH)₂-Na₂CO₃- Naoh Reaction System, *Korean J. Chem. Eng.*, 22(6), 852-856.
- Alqedairi, A., Viveros, C.A.M., Pantera, E.A., Funollet, M.C., Alfawaz, H., Neel, E.A.A., dan Abuhaimed, T.S., 2017, Superfast Set, Strong, and Less Degradable Mineral Trioxide Aggregate Cement, *Int. J. Dent.*, 2, 1-9.
- Alzraikat, H., Taha, N.A., dan Salameh, A., 2016, A Comparison of Physical and Mechanical Properties of Biodentine and Mineral Trioxide Aggregate, *J. Res. Med. Dent. Sci.*, 4, 121-126.
- Apriliani, N.F., 2016, Studi Literatur PCC untuk Aplikasi Bidang Teknik, *Journal Teknika*, 8(1), 777-780.
- Apriliani, N.F., Bagiya, M.A., dan Darmint, D., 2012, Pengaruh Penambahan Larutan Mgcl₂ Pada Sintesis Kalsium Karbonat Presipitat Berbahan Dasar Batu Kapur Dengan Metode Karbonasi, *Jurnal Sains dan Seni ITS*, B30-B34.
- Awaluddin., Mahyudin, A., dan Ahda, S., 2015, Pengaruh Penambahan Bahan Dopan Ta₂O₅ pada BahanPiezoelektrik Ramah Lingkungan dengan Menggunakan Sintesis Metode Molten Salt, *Jurnal Fisika Unand*, 4(2), 136-146.
- Awati, P.S., Awate, S.V., Shah, P.P., dan Ramaswamy, V., 2003, Photocatalytic Decomposition Of Methylene Blue Using Nanocrystalline Anatase Titania Prepared By Ultrasonic Technique, *Catal. Commun.*, 4(8), 393-400.
- Aziz, M., 1997, 2015, Kalsium Karbonat, Karakteristik Serta Penggunaannya. *Jom FTEKNIK*, 2(2).
- Aziz, M., 2010, Batu Kapur dan Peningkatan Nilai Tambah Serta Spesifikasi Untuk Industri., *Jurnal Teknologi Mineral Dan Batubara*, 6 (3), 116-131.
- Azkiya, N.I., budiman dan asmi, F., Putri, E.D., Rosiana, A., dan Wardhani, S., 2016, Sintesisprecipitated Calciumcarbonate(PCC)Daribatuan Kapur Alam Dengan Metode Kaustik Soda(Kajian Konsentrasi HNO₃), *Jurnal ILMU DASAR*, 17.
- Ban, S. dan Anusavice, K.J., 1990, Influence Of Test Method On Failure Stress Of Brittle Dental Materials, *J. Dent. Res.*, 69(12),1791-1799.
- Bargholz, C., 2005, Perforation Repair with Mineral Trioxide Aggregate: a Modified Matrix Concept, *Int. Endod. J.*, 38(1), 59-69.

- Basturk, F.B., Nekoofar, M.H., Gunday, M., dan Dummer, P.M., 2013, The Effect of Various Mixing and Placement Techniques on the Compressive Strength of Mineral Trioxide Aggregate, *J. Endod.*, 39(1), 111-114.
- Basturk, F.B., Nekoofar, M.H., Gunday, M., dan Dummer, P.M., 2015, Effect Of Varying Water-To-Powder Ratios And Ultrasonic Placement On The Compressive Strength Of Mineral Trioxide Aggregate, *J. Endod.*, 41(4), 531-4.
- Bodanezi, A., Carvalho, N., Silva, D., Bernardineli, N., Bramante, C.M., Garcia, R.B., dan de Moraes, I.G., 2007, Immediate and Delayed Solubility of Mineral Trioxide Aggregate and Portland Cement, *J. Appl. Oral. Sci.*, 16(2), 127-131.
- Borges, A.H., Pedro, F.L., Semanoff., Segundo, A., Miranda, C.E., Pecora, J.D., Cruz., dan Filho, A.M., 2011, Radiopacity Evaluation Of Portland And MTA-Based Cements By Digital Radiographic System, *J. Appl. Oral. Sci.*, 19(3), 228-232.
- Bortoluzzi, E.A., Broon, N.J., dan Duarte, M.A.H., 2006, The Use Of A Setting Accelerator And Its Effect On Ph And Calcium Ion Release Of Mineral Trioxide Aggregate And White Portland Cement, *J. Endod.*, 1, 1194 – 7.
- Brady, J. E. dan Holum, J.R., 1992, *Chemistry The Study Of Matter And Its Changes*, John Wiley & Sons, New York.
- Brady, J.E. dan Holum, J.R., 1989, *Fundamentals of Chemistry 3rd Edition*, Wiley, New York.
- Camilleri, J., 2007, Hydration Mechanism Of Mineral Trioxide Aggregate, *Int. Endod J.*, 40, 462-70.
- Camilleri, J., Montesin, F.E., Brady, K., Sweeney, R., Curtis, R.V., dan Ford, T.R.P., 2005, The Constitution of Mineral Trioxide Aggregate, *Dent Mater.*, 21, 297-303.
- Cappellen, P.V., 2006, Framboidal Vaterite Aggregates And Their Transformation Into Calcite: A Morphological Study, *J. Cryst. Growth.*, 287, 528-530.
- Ceci, M., Beltrami, R., Chiesa, M., Colombo, M., dan Poggio, C., 2015, Biological And Chemical-Physical Properties Of Root-End Filling Materials: A Comparative Study, *J. Conserv Dent.*, 18, 94-9.
- Chandler, N.P., Ford, T.R.P., dan Monteith, B., 2004, Pulp Siza in Molars: Underestimation on Radiographs, *J. Oral Rehabil.*, 31(8), 764-769.
- Chen, X., Jin, X., Liu, Z., Ling, X., dan Wang, Y., 2018, Experimental Investigation on the CaO/CaCO₃ Thermochemical Energy Storage with SiO₂ doping, *J. Energy.*, 155, 128-138.
- Chu, D.H., Vinoba, M, Bhagiyalakshmi, M., Baek, I.I.H., Nam, S.C., Yoon, Y., Kim, S.H., dan Jeong, S.K., 2013, CO₂ Mineralization into Different

- Polymorphs of CaCO₃ using an Aqueous CO₂ System, *RSC Adv.*, 3(44), 21722-21729.
- Cirstescu, I., Rodriquesz, M.L., dan Fischer, E., 2001, Mineral Trioxide Aggergate (MTA) An Updated Review.
- Coomaraswamy, Kristian., Lumley, P.J., dan Hofmann, M.P., 2007, Effect of Bismuth Oxide Radiopacifier Content on the Material Properties of an Endodontic Portland Cement Based MTA-Like System, *J. Endod.*, 33(3), 295-298.
- Dahlan, K., Prasetyanti, F., dan Sari, Y., 2009, Sintesis Hidroksiapatit dari Kulit Telur Menggunakan Dry Metode, *Journal Biofisika*, 5(2), 71-78.
- Damamaschke, T., Gerth, H., Zuchner, H., dan Shafer, E., 2005, Chemical And Physical Surface And Bulk Material Characterization Of White Portland Cement As A Restorative Material. *Dent Mater*, 21,731-8.
- Danesh, G.T., Dammaschke, H.U.V., Gerth, T., Zandbiglari dan Schafer, 2006, A Comparative Study Of Selected Properties Of Proroot Mineral Trioxide Aggregate And Two Portland Cement, *Int. Endod J.*, 39, 213-219.
- Darvell, B.W.. 2000, *Mechanical Testing. In: Materials Science For Dentistry*, 6th Ed., University Of Hong Kong, Hongkong.
- De-Deus, G., Ximenes, R., Gurgel, F.E.D., Olatkowski, M.C., dan Coutinho-Filho, T., 2005, Cytotoxicity of MTA and Portland Cement on human ECV 304 Endothelial Cells, *Int. Endod J.*, 38(9), 604-609.
- Delmifiana, B. dan Astuti., 2013, Pengaruh Sonikasi Terhadap Struktur dan Morfologi Nanopartikel Magnetic Yang Disintesis Dengan Metode Kopresipitasi, *Jurnal Fisika Unand*, 2(3).
- Elamin, M.R., Abdulkhair, B.Y., dan Taha, K.K., 2017, Effect of Urea on the Shape and Structure of Carbon Nanotubes, *Z. Naturforsch, aop.*, 1-8.
- El-Hamid, H.K.A., Abo-Almaged, H.H., dan Radwan, M.M., 2017, Synthesis, characterization and antimicrobial activity of nanocrystalline tricalcium silicate bio-cement, *J. Appl. Pharm. Sci.*, 7(10), 001-008.
- Erdogan, N. dan Eken, H.A., 2017, Precipitated Calcium Carbonate Production, Synthesis, And Properties. *Physicochem. Probl. Miner. Process.*, 53(1),57-68.
- Fauzi, M. M., Sutarno., Suyanta., 2017, Pengaruh Waktu Sonikasi selama Sintesis terhadap Kristalinitas MCM-41 Berbasis Silikat, *J. Appl. Chem.*,58-67.
- Fidel, R.A.S., Carvalho, R.G.D., Varela, C.H., Letra, A., dan Fidel, S.R., 2006, Complicated Crown Fracture: A Case Report, *Braz Dent J.*, 17(1), 83-86.
- Gandolfi, M.G., Siboni, F., dan Botero, T., 2015, Calcium Silicate And Calcium Hydroxide Materials For Pulp Capping: Biointeractivity, Porosity, Solubility And Bioactivity Of Current Formulations, *J. Appl. Biomater. Func.*, 131, 43-60.

- Gandolfi, M.G., Siboni, F., Primus, C.M., dan Prati, C., 2014, Ion Release, Porosity, Solubility, and Bioactivity of MTA Plus Tricalcium Silicate, *J. Endod.*, 40(10), 1632-1637.
- Gao, Y., Liu, L., dan Zhang, Z., 2009, Mechanical Performance of Nano-CaCO₃ Filled Polystyrene Composites, *Acta Mech. Solida Sin.*, 22(6), 555-562.
- Ginting, O.M.S., Riyanto, A., Sembiring, S., 2009, Karakteristik Fungsionalitas Borosilikat Berbasis Sekam Padi Akibat Pengaruh Kalsinasi, *Proceeding*, 16-17 November, Lampung.
- Grech, L., Mallia, B., dan Camilleri, J., 2013, Characterization Of Set Intermediate Restorative Material, Biodentine, Bioaggregate And A Prototype Calcium Silicate Cement For Use As Root-End Filling Materials, *Int. Endod. J.*, 46, 632-41.
- Gumru, B., Tarcin, B., Turkaydin, D.E., Iriboz, E., dan Ovecoglu, H.S., 2013, Evaluation of The Radiopacity of a MTA-Based Root-Canal Filling Material using Digital Radiography, *Journal of Marmara University Institute of Health Science*, 3(1), 19-25.
- Gusti, J., 2008, Pengaruh Penambahan Surfaktan Pada Sintesis Senyawa Kalsium Fosfat Melalui Metode Pengendapan, *Skripsi*, Universitas Andalas, Padang.
- Guyen, Y., Tuna, B.T., Dincol, M.E., dan Oya, O.A., 2004, X-Ray Diffraction Analysis Of Mta-Plus Mta-Angelus And Diaroot Bioaggregate, *Eur. J. Dent.*, 8, 211-215.
- Ha, W.N., Bentz, D.P., Kahler, B., dan Walsh, L.J., 2015, The Strongest Contributor to Setting Time in Mineral Trioxide Aggregate and Portland Cement, *J. Endod.*, 41, 1146-1150.
- Ha, W.N., Kahler, B., dan Walsh, L.J., 2016, The Influence of Particle Size and Curing Conditions on Testing Mineral Trioxide Aggregate Cement, *Acta. Biomater. Odontol. Scand.*, 2(1), 130-137.
- Hadiati, S., Ramelan, A.H., Varianti, V.I., Hikam, M., Soegijono, B., Saputri, D.F., dan Iriani, Y., 2013, Kajian Variasi Suhu Annealing dan Holding Time pada Penumbuhan Lapisan Tipis dengan Metode Sol Gel, *Jurnal Mipa*, 36(1), 20-27.
- Han, Y.S., 2006, Factors Affecting The Phase And Morphology Of CaCO₃ Prepared By A Bubbling Method, *J. Eur. Ceram. Soc.*, 26, 843-847.
- Hanifuddin, M. N., 2016, Teknik Ultrasonik dalam Proses Hidrodistilasi Rimpang Jahe Emprit, *Skripsi*, IPB, Bogor.
- Hapsari, B.W., 2009, Sintesis Nanosfer Berbasis Ferrofluid Dan Poly Lactic Acid Dengan Metode Sonikasi, *Skripsi*, IPB, Bogor.
- Hashem, A.A.R. dan Hassanien, E., 2008, ProRoot MTA MTA Angelus and IRM used to Repair Large Furcation Perforations; Sealability Study, *J. Endod.*, 34(1), 59-61.

- Hilton, T.J., 2009, Keys To Clinical Success With Pulp Capping: A Review Of The Literature, *Oper Dent.*, 34(5), 615-625.
- Holland, R., Souza, V., Nery, M.J., Faraco, I.M., Bernabe, P.F., dan Otoboni J.A.F., 2002, Reaction of rat connective tissue to implanted dentin tubes filled with a white mineral trioxide aggregate, *Braz Dent J.*, 13(1), 23-6.
- Hu, Z., 2009, Synthesis Of Needlelike Arogonite From Limestone In The Presence Of Magnesium Chloride, *J. Mater. Process. Technol.*, 209, 1607- 1611.
- Jamarun, N., Yulfitrin., dan Syukri, A., 2007, Pembuatan Precipitated Calcium Carbonate (PCC) dari Batu Kapur dengan Metoda Kaustik Soda, *J. Ris. Kim.*, 1.
- January, M. dan Yuniarti, Y., 2105, Pemurnian Pasir Silika Dengan Metode Sonikasi, *Skripsi*, ITS, Surabaya.
- Kaup, M., Schafer, E., dan Dammaschke., 2015, An In Vitro Study of Different Material Properties of Biodentine Compared to ProRoot MTA, *Head. Face. Med.*, 11,16-29.
- Khafifudin, B., 2017, Sintesis dan Karakterisasi Fotokatalis Titanium Dioksida Anatas Dengan Metode Sonikasi Variasi Suhu Dan Waktu Kalsinasi, *Skripsi*, UIN Maulana Malik Ibrahim., Malang.
- Khalil, I., Naaman, A., dan Camilleri, J., 2015, Investigation Of A Novel Mechanically Mixed Mineral Trioxide Aggregate (MMMTATM), *Int. Endod J.*, 48(8), 757-767.
- Khan, S.I.R., Ramachandran, A., Deepalakshmi, M., dan Kumar, K.S., 2012, Evaluation Of Ph And Calcium Ion Release Of Mineral Trioxide Aggregate And A New Root-End Filling Material, *Eur. J. Dent.*, 2, 166-9.
- Kirboga, S., Oner, M., 2013, Effect of the Experimental Parameters on Calcium Carbonate Precipitation, *Chem. Eng. J.*, 32, 2119-2124.
- Koulaouzidou, E.A., Economides, N., Beltes, P., Geromichalos, G., dan Papazisis, K., 2008, In Vitro Evaluation of the Cytotoxicity of ProRoot MTA and MTA Angelus, *J. Oral. Sci.*, 50(4), 397-402.
- Kumari, S., Mittal, A., Dadu, S., Dhaundiyal, A., Abraham, A., dan Yendrembam, B., 2018, Comparative Evaluation of Physical and Chemical Properties of Calcium Silicate Based Root End Filling Materials(Mineral Trioxide Aggregate and Biodentine): An in vitro Study, *Indian J. Dent. Sci.*, 10, 197-202.
- Kurdowski, W., 2013, *Cement and Concrete Chemistry*, Springer, New York.
- Laufmann, M., Hummel, W., dan Forsblom, M., 2004, Calcium Carbonate Fillers, *Conference Proceeding SC Paper PTS Symposium*, 16-18 Januari 2004, Munich.
- Lee, B.S., Lin, H.P., Chan, J.C.C., Wang, W.C., Hung, P.H., Tsai, Y.H., dan Lee, Y.L., 2018, A Novel Sol Gel Derived Calcium Silicate Cement with Short

- Setting Time for Application in Endodontic Repair of Perforations, *Int. J. Nanomedicine.*, 13, 261-271.
- Lee, J.C., Um, S.H., dan Rhee, S.H., 2016, Synthesis of a Mineral Trioxide Aggregate by Spray-Pyrolisis, *Ceram. Int.*, 42, 2263-2270.
- Li, Q. dan Coleman, J., 2015, The Hydration Chemistry of ProRoot MTA, *Dent. Mater.*, 34(4), 458-465.
- Li, Z.Q., Qiu, L.G., Wang, W., Xu, T., Wu, Y., dan Jiang, X., 2008, Fabrication of Nanocheets of a Fluorescent Metal-Organic Framework: Ultrasonic Synthesis and Sensing of Ethylamine, *Inorg. Chem. Commun.*, 11(11), 1375-1377.
- Lukman, M., Yudyanto., dan Hartatiek., 2012, Sintesis Biomaterial Komposit CaO.SiO₂ Berbasis Material Alam (Batuan Kapur dan Pasir Kuarsa) dengan Variasi Suhu Pemanasan dan Pengaruhnya terhadap Porositas, Kekerasan dan Mikrostruktur, *Journal Sains*, 2(1), 1-7.
- Marciano, M.A., Costa, R.M., Camilleri, J., Mondelli, R.F.L., Guimaraes, B.M., dan Duarte, M.A.H., 2014, Assessment of Color Stability of WMTA Angelus and Bismuth Oxide in Contact With Tooth Structure, *J. Endod.*, 40(8), 1235-1240.
- Martina, A. dan Witono, J.R., 2014, Pemurnian Garam dengan Metode Hidroekstraksi Batch, *LPPM*, Universitas Katolik Parahyangan, Bandung.
- Massi, S., Filbo, M.T., Silva, G.F., Duarte, M.A.H., Grizzo, L.T., Buzalaf, M.A.R., dan Tanomaru, J.M.G., 2011, pH Calcium Ion Release and Setting Time of an Experimental Mineral Trioxide Aggregate-based Root Canal Sealer, *J. Endod.*, 37 (6), 844-846.
- Mckinney, J.E., Antonucci, J.M., dan Rupp, N.W., 1987, Wear And Microhardness Of Glassionomer Cements. *J. Dent. Res.*, 66, 1134-9.
- Meiszterics, A., Rosta, L., Peterlik, H., Rohonczy, J., Kubuki, S., Henits, P., dan Sinko, K., 2010, Structural Characterization Of Gel-Derived Calcium Silicate Systems, *J. Phys. Chem. A.*, 114, 10403-10411.
- Menezes, R., Bramante, C.M., dan Letra, A., 2004, Histologic Evaluation Of Pulpotomies In Dog Using Two Types Of Mineral Trioxide Aggregate And Regular And White Portland Cements As Wound Dressings, *Oral. Surg. Oral. Med. Oral. Pathol. Oral. Radiol. Endod.*, 98(3), 376-379.
- Min, K.S., Kim, H.I., Park, H.J., Pi, S.H., Hong, C.U., dan Kim, E.C., 2007, Human Pulp Cells Response to Portland Cement in vitro, *J. Endod.*, 33, 163-166.
- Min, K.S., Yang, S.H., dan Kim, E.C., 2009, The Combined Effect Of Mineral Trioxide Aggregate And Enamel Matrix Derivative On Odontoblastic Differentiation In Human Dental Pulp Cells, *J. Endod.*, 35(6), 847-850.
- Moon, H.J., Lee, J.H., Kim, J.H., Knowles, J.C., Cho, Y.B., Shin, D.H., Lee, H.H., dan Kim, H.W., 2018, Reformulated Mineral Trioxide Aggregate

Components and the Assessments for Use as Future Dental Regenerative Cements, *J. Tissue. Eng.*, 9, 1-10.

- Nakayama, A., Ogiso, B., Tanabe, N., dan Takeichi, O., Matsuzaka, K., dan Inoue, T., 2005, Behaviour of bone marrow osteoblast-like cells on mineral trioxide aggregate: morphology and expression of type I collagen and bone-related protein mRNAs. *Int. Endod. J.*, 38, 203–10.
- Noviyanti., Jasruddin., Sujiono., dan Eko, H., 2015, Karakterisasi Kalsium Karbonat (Ca(Co₃)) Dari Batu Kapur Kelurahan Tellu Limpoe Kecamatan Suppa, *Jurnal Sains Dan Pendidikan Fisika*, 11(2), 169 – 17.
- Oates, J.A.H., 1998, *Lime and Limestone Chemistry and Technology Production and Uses*, Wiley-Vch, New Jersey.
- Okiji, T. dan Yoshiba, K., 2009, Reparative Dentinogenesis Induced by Mineral Trioxide Aggregate: A Review from the Biological and Physicochemical Points of View, *Int. J. Dent.*, 1-12.
- Patel, N., Patel, K., Baba, S.M., Jaiswal, S., Venkataraghavan, K., dan Jani, M., 2014, Comparing Gray and White Mineral Trioxide Aggregate as a Repair Material for Furcation Perforation: An in Vitro Dye Extraction Study, *J. Clin. Diagn. Res.*, 8(10), ZC70-ZC73.
- Pintado, L.S., Torre, E.D.N., Selayaran, M.D.S., Carvalho, R.V.D., Zanchi, C.H., Leite, F.R.M., dan Etges, A., 2008, Development of a Dual-Cure Mineral Trioxide Aggregate-Based Cement: Biological, Physical and Mechanical Properties, *J. Conserv. Dent.*, 21(1), 74-79.
- Prasad, K. dan Naik, C.T., 2017, Mineral Trioxide Aggregate in Endodontics, *Int. J. Appl. Dent. Sci.*, 3(1), 71-75.
- Prasetya, F., Azkiya, N.I., Putri, E.D., Putri, A.R., dan Wahdhani, S., 2015, Sintesis PCC dari Batuan Kapur Alam dengan Metode Karbonasi, *Prosiding Semnas Kimia Unesa*, 3-4.
- Prasetyani, F., 2008, Pemanfaatan Cangkang Telur Ayam untuk Sintesis Hidroksiapatit dengan Reaksi Kering, *Skripsi*, IPB, Bogor.
- Rahman, N.A.A., Tumin, S.M., dan Tajuddin, R., 2013, Optimiazion of Ultrasonic Extraction Method of Natural Dyes from *Xylocarpus Moluccensis*, *Int. J. Biosci. Biochem. Bioinforma.*, 3(1).
- Ranjakesh, B., 2016, Diametral Tensile Strength Of Novel Fast-Setting Calcium Silicate Cement, *Dent. Mater.*, 35(4), 559-563.
- Ray, H.A. dan Trope, M., 1995, Periapical Status Of Endodontically Treated Teeth In Relation To The Technical Quality Off The Root Filling And The Coronal Restoration, *Int. Endod. J.*, 28, 12-8.
- Ren, F. Z. dan Leng, Y., 2011, Carbonated Apatite, Type-A or Type-B, *Key. Eng. Mater.*, 493-494:293-97.

- Saghavas, K.M., Resalati, H., dan Ghasemian, A., 2013, Cellulose-Precipitated Calcium Carbonate Composites and Their Effect on Paper Properties, *Chem. Pap.*, 68(6), 1-9.
- Saghiri, A., Mohammad, R., Jack, J., Morteza, D., Aeinehchi, M., dan Ahmadi, B., 2011, A Comparative Study Of MTA Solubility In Various Media, *Iran. Endod. J.*, 6(1), 21-24.
- Santos, J.G., Ogasawara, T., dan Correa, R.A., 2009, Synthesis Of Mesoporous Titania In Rutil Phase With Pore-Stable, *Braz. J. Chem. Eng.*, 26(3), 555-561.
- Saraya, M.E.S.I. dan Rokhba, H.H.A.E.L., 2017, Formation and Stabilization of Vaterite Calcium Carbonate by Using Natural Polysaccharide, *Adv. Nanopart.*, 6, 158-182.
- Shen, Y., Huang, P.C., Huang, C., Sun, P., Monroy, G.L., Wu, W., Lin, J., Espinosa, R.M., Boppart, S.A., Liu, W.T., dan Nguyen, T.H., 2018, Effect of Divalent Ions and a Polyphosphate on Composition, Structure, and Stiffness of Simulated Drinking Water Biofilms, *npj. Biofilms. Microbiomes.*, 4(15), 1-9.
- Singh, S., Podar, R., Dadu, S., Kulkarni, G., dan Purba, R., 2015, Solubility Of A New Calcium Silicate-Based Root-End Filling Material, *J. Conserv. Dent.*, 18, 149-53.
- Smallman, R.E. dan Bishop, R.J., 2000, *Metalurgi Fisik dan Modern Rekayasa Material*, Erlangga, Jakarta.
- Soedjono, I.A., 2014, Perbandingan Pelepasan Ion Kalsium MTA Angelus dan Biodentine, *Tesis*, Universitas Indonesia, Jakarta.
- Soemargono. dan Billah, M., 2007, Pembuatan Kalsium Karbonat dari Bittern dan Gas Karbon Dioksida secara Kontinyu, *Reaktor.*, 11(1), 14-21.
- Taddei, P., Modena, E., Tinti, A., Siboni, F., Prati, C., dan Gandolfi, M.G., 2011, Vibrational Investigation of Calcium-Silicate Cements for Endodontics in SBF, *J. Mol. Struct.*, 993, 367-375.
- Taylor, H.F.W., Mohan, K., dan Moir, G.K., 1985, Analytical Study of Pure and Extended Portland Cement Pastes: I, Pure Portland Cement Pastes, *J. Am. Ceram. Soc.*, 68, 680.
- Thenepalli, T., Jun, A.Y., Han, C., Ramakrishna, C., dan Ahn, J.W., 2015, A Strategy of Precipitated Calcium Carbonate Fillers for Enchancing the Mechanical Properties of Polypropylene Polymers, *Korean J. Chem. Eng.*, 1-14.
- Thieman, M., 1991, Nitric Acid. Ullmans Encyclopedia Of Industrial Chemistry (Ed. Barbara Elvers, A(17)).
- Timpola, R., 2014, Karakterisasi Kandungan Mineral dan Unsur Penyusun Batu Gamping di Buliide, *Skripsi*, Universitas Negeri Gorontalo, Gorontalo.

- Trouerbach, W.T., 1984, A Study Of The Radiographic Aluminium Equivalent Values Of The Mandible, *Oral. Surg. Oral. Med. Oral. Pathol. Oral. Radiol. Endod.*, 58, 610-616.
- Van Noort, R., 2005, Introduction To Dental Materials, Mosby Inc, St Louis.
- Vilkhu, K., Mawson, R., Simons, L., dan Bates, D., 2006, Application and Opportunities for Ultrasound Assisted Extraction in the Food Industry (A Review), Food Innovation: Emerging Science, Technologies & Application (FIESTA), Australia.
- Vogel., 1990, Analisis Anorganik Kualitatif Makro dan Semimikro, 5th Ed., PT. Kalman Media Pustaka, Jakarta.
- Voicu, G., Badanoiu, A., Ghitulica, C., dan Endronescu, E., 2012, Sol Gel of WMTA with Potential Use as Biocement, *Dig .J. Nanomater Biostruct.*, 7(4), 1639-1646.
- Voicu., Georgeta, P., Alexandru, M., Badanoiu, A.I., dan Iordache, F , 2016, Influence Of Thermal Treatment Conditions On The Properties Of Dental Silicate Cement, *Article. Politehnica University Of Bucharest.*
- Waltham, T., 2002, *Foundation of Engineering Geology*, Spon Press, London and New York.
- Wang, L., Sondi, I., dan Matijevic, E., 1999, Preparation Of Uniform Needlelike Aragonite Particles By Homogenous Precipitation, *J. Colloid. Interface. Sci.*, 21, 545.
- Yahya, M., Azis, Y., dan Zultiniar, 2016, Sintesis Hidroksiapatit dari PCC Kulit Telur Ayam Melalui Proses Hidrotermal, *Jom FTEKNIK*, 3(1), 1-8.
- Zahnder, M., 2006, Root Canal Irrigants, *J. Endod.*, 32, 389-398.