



DAFTAR PUSTAKA

- Ahmed, B., Solanki, B., Zaidi, A., Khan, M. S. dan Musarrat, J., 2019, Bacterial Toxicity of Biomimetic Green Zinc Oxide Nanoantibiotic: Insights into ZnONP Uptake and Nanocolloid–Bacteria Interface, *Toxicol. Res.*, 8, 246–261.
- Akyol, A. dan Bayramoglu, M., 2010, Preparation and Characterization of Supported ZnO Photocatalyst by Zincate Method, *J. Hazard. Mater.*, 175 (1-3), 484-491.
- Al-Dujaily, A. H., Al-Alo, K. Z. K. dan Mohmoud, M. H. S., 2019, Hematology, Bacteriology and Antibiotic Resistance in Milk of Water Buffalo with Subclinical Mastitis, *Onl. J. Vet. Res.*, 23 (1), 1-8.
- Al-Gaashani, R., Radiman, S., Al-Douri, Y., Tabet, N. dan Daud, A. R., 2012, Investigation of the Optical Properties of Mg(OH)2 and MgO Nanostructures Obtained by Microwave-Assisted Methods, *J. Alloys. Compd.*, 52, 71-76.
- Alhezaimi, K., Alhamdan, K., Naghshbandi, J., Oglesby, S., Simon, J. H. S., and Rotstein, I., 2005, Effect of White-Colored Mineral Trioxide Aggregate in Different Concentrations on *Candida albicans* invitro, *J. Endod.*, 31 (9), 684– 686.
- Amir, A., Bibi, S., Nawaz, A., Ibrahim, A., Ashiq, M. N., Saeed, M. Q., Hamza, M., Rasheed, H. M. Z. dan Islam, B., 2021, In Vitro Antibacterial Response of ZnO-MgO Nanocomposites at Various Compositions, *Int. J. Appl. Ceram. Technol.*, 1-13.
- Anshul, P. dan Archana, T., 2017, Effect of Zinc Oxide Nanoparticle on Compressive Strength and Durability of Concrete, *Int. J. Res. Appl. Sci. Eng. Technol.*, 5, 683-687.
- Baranov, A. N., Kurakevych, O. O., Tafeenko, V. A., Sokolov, P. S., Panin, G. N. dan Solozhenko, V. L., 2010, High-Pressure Synthesis and Luminescent Properties of Cubic ZnO/MgO Nanocomposites, *J. Appl. Phys.*, 107 (7), 0735191-0735195
- Bolhari, B., Meraji, M., Sefideh, M. R. dan Pedram, P., 2020, Evaluation of the Properties of Mineral Trioxide Aggregate Mixed with Zinc Oxide Exposed to Different Environmental Conditions, *Bioact. Mater.*, 5, 516-521.
- Bortoluzzi, E. A., Araujo, G. S., Guerreiro T. J. M. dan Tanomaru-Filho, M., 2007, Marginal Gingival Discoloration by Gray MTA: A Case Report, *J. Endod.*, 33, 325–327.



- Camilleri, J., Montesin, F. E., Brady, K., Sweeney, R., Curtis, R. V. dan Pitt Ford, T. R., 2005, The Constitution of Mineral Trioxide Aggregate, *Den Mater.*, 21, 731 – 738.
- Camilleri, J., 2007, Hydration Mechanisms of Mineral Trioxide Aggregate, *Int. Endod. J.*, 40 (6), 462-470.
- Chawla, S., Jayanthi, K., Chander, H., Haranath, D., Halder, S. K. Dan Kar, M., 2008, Synthesis and Optical Properties of ZnO/MgO Nanocomposite, *J. Alloys. Compd.*, 459, 457–460 .
- Chem, S., Shi, L., Luo, J. dan Engqvist, H., 2018, Novel Fast-Setting Mineral Trioxide Aggregate: Its Formulation, Chemical-Physical Properties, and Cytocompatibility, *ACS Appl. Mater. Interferface*, 10 (24), 20334-20341.
- Chhikara, D., Srivatsa, K. M. K. dan Muthusamy, S. K., 2014, On The synthesis and Characterization of ZnO/MgO Nanocomposite by Thermal Evaporation Technique, *Solid. State. Sci.*, 37, 108–113.
- Comini, E., Baratto, C., Faglia, G., Ferronia, M., Vomiero, A. Dan Sberveglieri, G., 2009, Quasi-One Dimensional Metal Oxide Semiconductors: Preparation, Characterization and Application As Chemical Sensors, *Prog. Mater. Sci.*, 54 (1), 1-67.
- Cuesta, A. I., Jewtuchowicz, V., Brusca, M. I., Nastri, M. L., dan Rosa, A. C., 2010, Prevalence of *Staphylococcus* spp and *Candida* spp in the Oral Cavity and Periodontal Pockets of Periodontal Disease Patients, *Acta. Odontol. Latinoam.*, 23, 20–26.
- Cutajar, A., Mallia, B., Abela, S. dan Camilleri, J., 2011, Replacement of Radiopacifier in Mineral Trioxide Aggregate; Characterization and Determination of Physical Properties, *Dent. Mater.*, 27 (9), 879-891.
- Das, S., Chakrabarti, S. dan Chaudhuri, S., 2005, Optical Transmission and Photoluminescence Studies of ZnO–MgO Nanocomposite Thin Films, *J. Phys. D. Appl. Phys.*, 38, 4021–4026.
- Das, S. dan Srivasatava, V. C., 2016, Synthesis and Characterization of ZnO–MgO Nanocomposite by Co-precipitation Method, *Smart. Sci.*, 4 (4), 190-195.
- Drago, L., 2019, Chloramphenicol Resurrected: A Journey from Antibiotic Resistance in Eye Infections to Biofilm and Ocular Microbiota, *Microorganisms*, 7 (9), 1-12.
- Duarte, M. A. H., Demarchi, A. C. C. O., Yamashita, J. C., Kuga, M. C., Fraga, S. C., 2003, pH and Calcium Ion Release of 2-Rootend Filling Materials, *Oral. Surg. Oral. Med. Oral. Patho. Oral. Radiol. Endod.*, 2003; 95, 345 – 347.



- Estrela, C., Bammann, L. L., Estrela, C. R., Silva, R. S. dan Pecora, J. D., 2000, Antimicrobial and Chemical Study of MTA, Portland Cement, Calcium Hydroxide Paste, *Sealapex*, and *Dycal*. *Braz. Dent. J.*, 11, 3–9.
- Frindland, M. dan Rasado, R., 2005, MTA Solubility a Long Term Study, *J Endod.*, 31, 376 – 379.
- Gao, M., Yang, J. H., Yang, L. L., Zhang, Y. J., Liu, H. L., Fan, H. G., Lang, J. H., Sui, Y. R., Feng, B., Sun, Y. F., Zhang Z. Q. dan Song, H., 2013, Synthesis and Characterization of Aligned ZnO/MgO Core–Shell Nanorod Arrays on ITO Substrate, *Appl. Phys. B.*, 112, 539–545.
- Glickman, G. N. dan Koch K. A., 2000, 21st-century Endodontics, *J. Am. Dent. Assoc.* (131), 39S–46S.
- He, L., Liu, Y., Mustapha, A. dan Lin, M., 2011, Antifungal Activity of Zinc Oxide Nanoparticles Against *Botrytis cinerea* and *Penicillium expansum*, *Microbiol. Res.*, 166, 207–215.
- Herlina, N., Fifi, A., Aditia, D. C., Poppy, D. H., Qurotunnada dan Baharuddin T., 2015, Isolasi dan Identifikasi *Staphylococcus aureus* dari Susu Mastitis Subklinis di Tasikmalaya, Jawa Barat, *Pros. Sem. Nas. Masy. Biodiv. Indon.*, 1(3): 413-417.
- Hilton, T. J., Ferracane, J. L. dan Mancl, L., 2013, Comparison of CaOH with MTA for Direct Pulp Capping: A PBRN Randomized Clinical Trial, *J. Dent. Res.*, 92 (7), 16S-22S.
- Huang, L., Li, D. Q., Lin, Y. J., Evans, D. G. Dan Duan, X., 2005, Influence of Nano-MgO Particle Size on Bactericidal Action Against *Bacillus subtilis* var. *niger*, *Sci. Bull.*, 50, 514-519.
- Ivask A., Badawy A. E., Kaweeteerawat, C., Boren, D., Fischer, H., Ji. Z., Chang, C. H., Liu, R., Tolaymat, T., Telesca, D., Zink, J. I., Cohen, Y., Holden, P. A. dan Godwin, H. A., 2014, Toxicity Mechanisms in *Escherichia coli* Vary for Silver Nanoparticles and Difer from Ionic Silver, *ACS Nano.*, 8 (1), 374–386.
- Jadhav, R. J., Mattigatti, S., John, L. C. dan Ingale, P., 2019, Crucial Radiographic Appraisal of Roots – A Key to Endodontic Success, *J. Ind. Dent. Assoc. Kochi.*, 1 (2), 44-50.
- Javed, R., Zia, M., Naz, S., Aisida, S. O., Ain, N. dan Ao, Q., 2020, Role of Capping Agents in the Application of Nanoparticles in Biomedicine and Environmental Remediation: Recent Trends and Future Prospects, *J. Nanobiotechnol.*, 18 (172), 1-15.
- Jin, T., Sun, D., Su, J. Y., Zhang, H. dan Sue, H. J., 2009, Antimicrobial Efficacy of Zinc Oxide Quantum Dots against *Listeria monocytogenes*, *Salmonella Enteritidis*, and *Escherichia coli* O157:H7, *J. Food. Sci.*, 74, 46- 52.



- Jongpradist, P., Jumlongrach, N., Youwai, S., dan Chucheeapsakul, S., 2010, Influence of Fly Ash on Unconfined Compressive Strength of Cement-Admixed Clay at High Water Content, *J. Mater. Civ. Eng.*, 22 (1), 49- 58.
- Karimela, E. J., Ijong, F. G. dan Dien, H. A., 2017, Karakteristik *Staphylococcus aureus* yang Diisolasi dari Ikan Asap Pinekuhe Hasil Olahan Tradisional Kabupaten Sangihe, *J. Pengolah. Has. Perikan. Indones.*, 20 (1), 188-198.
- Karimi, M. A., Roozbahani, S. H., Asadiniya, R. Mehrjadri, A. H., Mashhadizadeh, M. H., Ardakani, R. B., Ardakani, M. M., Kargar, H. dan Zebarjad, S. M., 2011, Synthesis and Characterization of Nanoparticles and Nanocomposite of ZnO and MgO by Sonochemical Method and Their Application for Zinc Polycarboxylate Dental Cement Preparation, *Int. Nano. Lett.*, 1 (1), 43–51.
- Khan, S. B., Faisal, M., Rahman, M. M. dan Jamal, A., 2011, Low-Temperature Growth of ZnO Nanoparticles: Photocatalyst and Acetone Sensor, *Talanta*, 85 (2), 943-949.
- Kim, G. Y. dan Lee, C. H., 2015, Antimicrobial Susceptibility and Pathogenic Genes of *Staphylococcus aureus* Isolated From The Oral Cavity of Patients with Periodontitis, *J. Periodontal. Implant. Sci.*, 45 (6), 223– 228.
- Koczkur, K. M., Mourdikoudis, S., Polavarapu, L. dan Skrabalak, S. E., 2015, Polyvinylpyrrolidone (PVP) ini Nanoparticle Synthesis, *Dalton. Trans.*, 44 (41), 17883-17905.
- Krishnamoorthy, K., Moon, J. Y., Hyun, H. B., Cho, S. K. dan Kim, S. J., 2012, Mechanistic Investigation on the Toxicity of MgO Nanoparticles toward Cancer Cells. *J. Mater. Chem.*, 22 (47), 24610–24617.
- Kurniawan, F. B. dan Sahli, I. T., 2017, *Bakteriologi: Praktikum Teknologi Laboratorium Medik*, Penerbit Buku Kedokteran EGC, Jakarta.
- Ledesma, F., Santana, F. B., Bucio, L., Arenas-Alatorre, J. A., Faraji, M. dan Wintergerst, A. M., 2017, Bioactive Materials Improve Some Physical Properties of A MTA-like Cement, *Mater. Sci. Eng. C.*, 71, 150-155.
- Lakshmi, G. C., Ananda, S., Somashekhar R., Ranganathaiah, C., 2012, Synthesis of ZnO/MgO Nanocomposites by Electrochemical Method for Photocatalytic Degradation Kinetics of Eosin Yellow Dye, *Int. J. Nanosci. Nanotechnol.*, 3, 47–63.
- Latha, C. K., Ranghasudha, M., Aparna, Y., Ramchander, M., Ravinder, D., Jaipal, K., Veerasomaiah, P. dan Shridhar, D., 2017, Effect of Capping Agent on the Morphology, Size and Optical Properties of In₂O₃ Nanoparticles, *Mater. Res.*, 20 (1), 256-263.



- Li, Y. J., Li, D. Q., Wang, G., Huang, L. dan Duan, X., 2005, Preparation and Bactericidal Property of MgO Nanoparticles on γ -Al₂O₃, *J. Mater. Sci. Mater. Med.*, 16, 53-56.
- Li, J., Lu, G., Wang, Y., Guo, Y. dan Guo, Y., 2012, A High Activity Photocatalyst of Hierarchical 3D Flowerlike ZnO Microspheres: Synthesis, Characterization and Catalytic Activity, *J. Colloid. Interface. Sci.*, 377 (1), 191-196.
- Li, Q. dan Coleman, N. J., 2015, The Hydration Chemistry of ProRoot MTA, *Dent. Mater. J.*, 34 (4), 458-465.
- Liu, H., Yang, D., Yang, H., Zhang, H., Zhang, W., Fang, Y., Lin, Z., Tian, L., Lin, B., Yan, J. dan Xi, Z., 2013, Comparative Study of Respiratory Tract Immune Toxicity Induced by Three Sterilisation Nanoparticles: Silver, Zinc Oxide and Titanium Dioxide, *J. Hazard. Mater.*, 248–249, 478–786.
- Liu, Y., Liu, X. M., Bi, J., Yu, S., Yang, N., Song, B dan Chen, X., 2020, Cell Migration and Osteo/Odontogenesis Stimulation of iRoot FS as a Potential Apical Barrier Material in Apexification, *Int. Endod. J.*, 53 (4), 467–477.
- Maroto, M., Barberia, E., Planellis, P. dan Vera, V., 2003, Treatment of a Non-Vital Immature Incisor with Mineral Trioxide Aggregate (MTA), *Dent. Traumatol.*, 19, 165 – 169.
- Mai, N. L., Hoang, N. H., Do, H. T., Pilz, M. dan Trinh, T. T., 2021, Elastic and Thermodynamic Properties of the Major Clinker Phases of Portland Cement: Insights from First Principles Calculations, *Constr. Build. Mater.*, 287, 1-15.
- Mirhosseini, M. dan Firouzabadi, F. B., 2012, Antibacterial Activity of Zinc Oxide Nanoparticle Suspensions on Food-Borne Pathogens, *Int. J. Dairy. Technol.*, 66 (2), 291–295.
- Mirzaei, H. dan Davoodnia, A., 2012, Microwave Assisted Sol-Gel Synthesis of MgO Nanoparticles and Their Catalytic Activity in the Synthesis of Hantzsch 1, 4- Dihydropyridines, *Chinese J. Catal.*, 33, 1502-1507.
- Mohammadi, Z., Giardino, L., Palazzi, F. dan Shalavi, S., 2012, Antibacterial Activity of a New Mineral Trioxide Aggregate-Based Root Canal Sealer, *Int. Dent. J.*, 62 (2), 70–73.
- Murali, M., Kalegowda, N., Gowtham, H. G., Ansari, M. A., Alomary, M. N., Alghamdi, S., Shilpa, N., Singh, S. B., Thriveni, M. dan Aiyaz, M., 2021, Plant-Mediated Zinc Oxide Nanoparticles: Advances in the New Millennium towards Understanding Their Therapeutic Role in Biomedical Applications, *Pharmaceutics*, 13, 1662.
- Nazali, A. Dan Riahi, S., 2011, The Effects of ZnO Nanoparticles on Strength Assessments and Water Permeability of Concrete in Different Curing Media, *Mater. Res.*, 14 (2), 178-188.



- Nisha, G. dan Amit, G., 2010, *Textbook of Endodontics. 2nd Ed.*, Jaypee Brothers Medical Publishers (P) Ltd., India.
- Nivethitha, D. and Dharmar, D., 2016, Effect of Zinc Oxide Nanoparticle on Strength of Cement Mortar, *Int. J. Sci. Technol. Eng.*, 3 (5), 123-127.
- Noori, A. J. dan Kareem, F. A., 2020, Setting Time, Mechanical and Adhesive Properties of Magnesium Oxide Nanoparticles Modified Glass-Ionomer Cement, *J. Mater. Res. Technol.*, 9 (2), 1809-1818.
- Oliveira, M. G., Xavier, C. B., Demarco, F. F., Pinheiro, A. L. B., Costa, A. T. dan Pozza, D. H., 2007, Comparative Chemical Study of MTA and Portland Cements, *Braz. Dent. J.*, 18 (1), 3-7.
- Ourapryyan, P., Sreethawong, T. dan Chavadej, S., 2009, Synthesis Crystalline MgO Nanoparticle with Mesporous-Assembled Structure via A Surfactant-Modified Sol-Gel Process, *Mater. Lett.*, 63, 1862- 1865.
- Padmavathy, N. dan Vijayaraghavan, R., 2008, Enhanced bioactivity of ZnO Nanoparticles—An Antimicrobial Study, *Sci. Technol. Adv. Mater.*, 9 (3), 1-7.
- Padmavathy, N. dan Vijayaraghavan R., 2011, Interaction of ZnO Nanoparticles with Microbes – A Physio and Biochemical Assay, *J. Biomed. Nanotechnol.*, 7 (6), 813–822.
- Parirokh, M. dan Torabinejad, M., 2010, Mineral Trioxide Aggregate: A Comprehensive Literature Review- Part III: Clinical Applications, Drawbacks and Mechanism of Action, *J. Endod.*, 36, 400–413.
- Park, M., Kim, K. Y., Seo, H., Cheon, Y. E., Koh, J. H., Sun, H. dan Kim T. J., 2014, Practical Challenges Associated with Catalyst Development for the Commercialization of Li-air Batteries, *J. Electrochem. Sci. Technol.*, 5 (1), 1-18.
- Pasril, Y., 2017, Perawatan Saluran Akar pada Gigi Incisivus Sentral dan Lateral Maksila dengan Perbedaan Status Pulpa: Laporan Kasus, *Insisiva Dental Journal*, 6 (1), 57-62.
- Polat, R., Demirboga, R. dan Karagol, F., 2017, The Effect of Nano-MgO on the Setting Time, Autogenous Shrinkage, Microstructure and Mechanical Properties of High Performance Cement Paste and Mortar, *Constr. Build. Mater.*, 156, 208-218.
- Pratama, A. R. dan Mulyawati, E., 2010, Penggunaan MTA (Mineral Trioxide Aggregate) Sebagai Bahan Pengisi Saluran pada Akar Gigi Inisisivus Lateral Kiri Maksila dengan Perforasi Saluran Akar, *Maj. Ked. Gi.*, 17 (1), 19-22.



- Prathita, T., Djauharie, N. M. dan Meidyawati, R., 2019, Antimicrobial Activity ff Mineral Trioxide Aggregate and Calcium Hydroxide Sealer On Enterococcus Faecalis Strain ATCC29212, *Int. J. Appl. Pharm.*, 11 (1), 123-125.
- QureShi, A., Soujanya, E., Nandakumar, Pratapkumar dan Sambashivarao, 2014, Recent Advances in Pulp Capping Materials: An Overview, *J. Clin. Diagnostic Res.*, 8 (1), 316-321.
- Raghupathi, K. R., Koodali, R. T. dan Manna, A. C., 2011, Size-Dependent Bacterial Growth Inhibition and Mechanism of Antibacterial Activity of Zinc Oxide Nanoparticles, *Langmuir*, 27, 4020–4028.
- Rahmi, Y., Darmawi, Mahdi, A., Faisal, J., Fakhruzzaki dan Yudha, F., 2015. Identification of *Staphylococcus aureus* In Preputium and Vagina of Horses (*Equus caballus*), *J. Med. Vet.*, 9 (2), 15-158.
- Romadhan, M. F., Suyatma, N. E.dan Taqi, F. M., 2016, Synthesis of ZnO Nanoparticles by Precipitation Method with Their Antibacterial Effect, *Indones. J. Chem.*, 16 (2), 117-123.
- Rompis, J. T., Aritonang, H. F. dan Pontoh, J., 2020, Sintesis Nanokomposit ZnO-MgO dan Analisis Efektivitas sebagai Antibakteri, *Chem. Prog.*, 13 (1), 56-62.
- Roselli, M., Finamore, A. dan Garaguso, I., 2003, Zinc Oxide Protects Cultured Enterocytes from the Damage Induced by Escherichia coli, *J. Nutr.*, 133 (12), 4077-4082.
- Ruddle, C. J., 2017, Endodontic Controversies: Structural and Technological Insights, *Dent. Today*, 36, 122-125.
- Rusmiany, P., Wedagama, D. M. dan Dewi Ni Pt, O. K., 2017, Penggunaan Bahan Resin Sebagai Sealer Adesif Pada Pengisian Saluran Akar, *IJKG*, 13 (1), 4-8.
- Santoso, L. dan Kristanti, Y., 2016, Perawatan Saluran Akar Satu Kunjungan Gigi Molar Kedua Kiri Mandibula Nekrosis Pulpa dan Lesi Periapikal, *MKGK*, 2 (2), 65-71.
- Sariyem, Sutomo, B. dan Varianti, F., 2018, The Causal Factors Of Periapical and Pulp Disease Among Senior Community of Kagok Community Health Center Semarang, *J. Kesehat. Gigi*, 5 (1), 52-60.
- Sawai, J., Kojima, H., Igarashi, H., Hasimoto, A., Shoji, S., Sawaki, T., Hakoda, A., Kawada, E., Kokugan, T. Dan Shimizu, M., 2000, Antibacterial Characteristics of Magnesium Oxide Powder, *World J. Microbiol. Biotechnol.*, 16, 187-194.
- Serin, K. T., 2019, Effects of Intracoronal Bleaching Agents on the Surface Properties of Mineral Trioxide Aggregate, *Odontology*, 107 (4), 465–472.



- Sharma, A. K., Bhandari, R., Aherwar, A., Rimašauskiene, R., 2019, Matrix Materials Used in Composites: A Comprehensive Study, *Mater. Today: Proc.*, 1-4.
- Sipert, C. R., Hussne, R. P., Nishiyama, C. K., Torres, S. A., 2005, In Vitro Antimicrobial Activity of Gill Canal, Sealapex, Mineral Trioxide Aggregate, Portland Cement, and EndoRez, *Int. Endod. J.*, 38, 539–543.
- Song, J. S., Mante, F. K., Romanow, W. J. dan Kim, S., 2006, Chemical Analysis of Powder and Set Forms of Portland Cement, Gray ProRoot MTA, White ProRoot MTA, and Gray MTA-Angelus, *Oral. Surg. Oral. Med. Oral. Pathol. Oral. Radiol. Endod.*, 102 (6), 809-815.
- Song, W., and Ge, S., 2019, Application of Antimicrobial Nanoparticles in Dentistry, *J. Molecules*, 24(6), 1–15.
- Stoimenov, P. K., Klinger, K. L. dan Marchin, G. L., 2002, Metal Oxide Nanoparticles as Bactericidal Agents, *Langmuir*, 18 (17), 6679-6686.
- Tang, Z. X., dan Bin-Feng, Lv., 2014, MgO Nanoparticles as Antibacterial Agent: Preparation and Activity, *Braz. J. Chem. Eng.*, 31 (3), 591-601.
- Torabinejad, M., Walton, R. E., 2009, *Protecting the pulp preserving the apex. Dalam endodontics principles and practice. Edisi Ke 4.*, St. Louis, Missouri.
- Tu, M. G., Sun, K. T., Wang, T. H., He, Y. Z., Hsia, S. M., Tsai, B. H., Shih, Y. H. dan Shieh, T. M., 2019, Effects of Mineral Trioxide Aggregate and Bioceramics on Macrophage Differentiation and Polarization In Vitro, *J. Formos. Med. Assoc.*, 118 (10), 1458–1465.
- Ustun, Y., Sagsen, B., Durmaz, S. dan Percin, D., 2013, In Vitro Antimicrobial Efficiency of Different Root Canal Sealers Against Enterecoccus Faecalis, *Eur. J. Gen. Dent.*, 2 (2), 134-138.
- Vellappally, Divakar, S. D. D., Kheraif, A. A. A., Ramakrishnaiah, R., Alqahtani, A., Dalati, M. H. N., Anil, S., Khan, A. A. dan Varma, H. P. R., 2017, Occurrence of Vancomycin-Resistant *Staphylococcus aureus* in the Oral Cavity of Patients With Dental Caries, *Acta. Microbiol. Immunol. Hung.*, 64 (3), 343-351.
- Vidic, J., Stankic, S., Haque, F., Ceric, D., Goffic, R. L., Vidy, A., Jupille, J. dan Delmas, B., 2013, Selective Antibacterial Effects of Mixed ZnMgO Nanoparticles, *J. Nanopart. Res.*, 15 (5), 1595.
- Waani, J. E., Elisabeth, L., Teknik, F., and Sam, U., 2017, Substitusi Material Pozolan Terhadap Semen pada Kinerja Campuran Semen, *J. Teknik Sipil ITB*, 24 (3), 237–246.
- Walton, R. dan Torabinejad, M., 1998, *Prinsip dan Praktek Ilmu Endodonti*, EGC, Jakarta.



Wiradona, I., Widjanarko, B. dan Syamsulhuda, 2013, Pengaruh Perilaku Menggosok Gigi Terhadap Plak Gigi pada Siswa Kelas IV dan V Di SDN Wilayah Kecamatan Gajahmungkur Semarang, *J. Promosi. Kesehat. Indones.*, 8 (1), 59-68.

Yamamoto, O., Fukuda, T., Kimata, M., Sawai, J. dan Sasamoto, T., 2001, Antibacterial Characteristics of MgO-Mounted Spherical Carbons Prepared by Carbonization of Ion-Exchanged Resin, *J. Ceram. Soc. Japan.*, 109, 363-365.

Yamamoto, O., Ohira, T., Alvarez, K. dan Fukuda, M., 2010, Antibacterial Characteristics of CaCO₃-MgO Composites, *Mater. Sci. Eng. B.*, 173, 208-212.

Yamamoto, O., Sawai, J. dan Sasamoto, T., 2000, Change in Antibacterial Characteristics with Doping Amount of ZnO in MgO-ZnO Solid Solution, *Int. J. Inorg.*, 2, 451-454.

Yulianti, C. H., 2012, Sintesis dan Karakterisasi Kristal Nano ZnO, *Jurnal Teknika*, 4 (2), 1-5

Zhang, B. P., Binh, N. T., Wakatsuki, K., Liu, C. Y. dan Segawa, Y., 2005, Growth of ZnO/ MgZnO Quantum Wells on Sapphire Substrates and Observation of The Two-Dimensional Confinement Effect, *Appl. Phys. Lett.*, 86 (3), 032105-032105-3.

Zhang, L., Jiang, Y., Ding, Y., Povey, M. dan York, D., 2007, Investigation into the Antibacterial Behaviour of Suspensions of ZnO Nanoparticles (ZnO Nanofluids), *J. Nanopart. Res.*, 9, 479–489.