

- Ansari, S., Jahedmanesh, N., Cascione, D., & Zafarnia, P. (2018). Effect of an Etching Solution on the Adhesive Properties and Surface Microhardness of Zirconia Dental Ceramics. *The Journal of Prosthetic Dentistry*, 120(3), 447-453.
- Barsoum, M. W. (2003). *Fundamentals of Ceramics*. Cornwall, UK: IoP Publishing.
- Barui, S., S. C., Samajdar, R., Gavade, S. C., & Basu, B. (2020). Impact of 'Core-Shell' Mode of Printing on Properties of 3D Binderjet Printed. *Open Ceramics*, 3, 100026.
- Cales, B., & Stefani, Y. (1994). Mechanical Properties and Surface Analysis of Retrieved Zirconia Femoral Hip Joint Heads After an Implantation time of Two to Three Years. *Journal of Material Science Materials in Medicine*, 5, 80-376.
- Camposilvan, E., Leone, R., Gremillard, L., Sorrentino, R., & Zarone, F. (2018). Anging Resistance, Mechanical Properties and Translucency of Different Yittria-Stabilized Zirconia Ceramics for Monolithic Dental Crown Applications. *Dental Materials*, 34, 879-890.
- Cao, Y., Shib, T., Jiaoa, C., Lianga, H., Chena, R., & Tiana, Z. (2020). Fabrication and Properties of Zirconia/hydroxyapatite Composite Scaffold. *Ceramic International*, 46, 2300-2308.
- Carter, C. B., & Norton, M. G. (2013). *Ceramic Materials Science and Engineering* (2nd ed.). New York: Springer.
- Coric, D., Renjo, M. M., & Curkovic, L. (2017). Vickers Indentation Fracture Thougness of Y-TZP dental ceramic. *Journal of Refractory Metals and Hard Metal*, 64, 14-19.
- Echlin, P. (2009). *Handbook of Sample Preparation for Scanning Electron Microscopy and X-Ray Microanalysis*. Cambridge: Springer.
- Farag, M. M. (1997). *Material Selection for Engineering Design*. Salisbury, UK: Prentice Hall Europe.
- Ferber, M., A werezczak, M. J., Cranner, D., & Richerson, D. (1998). *Fracture Strength. Mechanical Testing Methodology for Ceramic Design and Reliability*. New York: Marcel Dekker.
- Fonseca, R. B., Almeida, D. N., Mendes, G. A., Kasuya, A. V., NegroFavarão, I., & Paula, M. S. (2016). Effect of Short Glass Fiber/Filler Particle Proportion on Flexural and Diametral Tensile Strength of a Novel Fiber-Reinforced Composite. *Journal of Prosthodontic Research*, 60(1), 47-53.
- Fultz, B., & Howe, J. (2013). *Transmission Electron Microscopy and Diffractometry of Materials* (4th ed.). London: Springer.
- German, R. M. (1994). *Powder Metallurgy Science* (2nd ed.). Metal Powder Industries Federation.
- Hu, X., Zhang, W., & Hou, D. (2020). Synthesis, Microstructure and Mechanical Properties of Tricalcium Phosphate–Hydroxyapatite (TCP/HA) Composite Ceramic. *Ceramics International*, 46, 9810–9816.

- Ilie, N., Hilton, T., Heintze, S., Hickel, R., Watts, D., Silikas, N., . . . Ferracane, J. (2017). Academy of Dental Materials Guidance—Resin Composites: Part I—Mechanical Properties. *33*, 880-894.
- Inuzuka, M., Nakamura, S., Kishia, S., Yoshida, K., Hashimoto, K., Toda, Y., & Yamashita, K. (2004). Hydroxyapatite-doped Zirconia for Preparation of Biomedical Composites Ceramics. *Solid State Ionics*, *172*, 509–513.
- Kelly, J., & Denry, I. (2008). Stabilized Zirconia as a Structural Ceramic an Overview. *Dent Mater*, *24*, 289-98.
- Khoninaa, T., Chupakhina, O., Shurc, V., Turyginc, A., Sadovskyd, V., & Mandrad, Y. (2020). Silicon-hydroxyapatite–glycerohydrogel as a Promising Biomaterial for Dental Applications. *Colloids and Surface B: Biointerface*, *189*.
- Leong, C. H., Muchtar, A., Tan, C. Y., Razali, M., & Amat, N. F. (2014). Sintering of Hydroxyapatite/Yttria Stabilized Zirconia. *Hindawi Publishing Corporation Advances in Materials Science and Engineering*, 1-6.
- Lertchirakarn, V., Palamara, J., & Messer, H. (2001). Anisotropy of Tensile Strength of Root Dentin. *J Dent Res*, *80*(2), 453-6.
- Li, L., Wan, L., & Zhou, Q. (2020). Crack Propagation During Vickers Indentation of Zirconia Ceramics. *Ceramics International*, *46*(13), 21311-21318.
- Mazaheri, M., Simchi, A., & Golestani-Fard, F. (2008). Densification and grain growth of nanocrystalline 3Y-TZP. *Journal of the European Ceramic Society*, *28*, 2933-2939.
- Miao, X., Chena, Y., Guoa, H., & Khorb, K. A. (2004). Spark Plasma Sintered Hydroxyapatite-Yttria Stabilized Zirconia Composites. *Ceramics International*, *30*, 1793-1796.
- Nayak, Y., Rana, R. P., Pratihari, S. K., & Bhattacharyya, S. (2008). Pressureless Sintering of Dense Hydroxyapatite–zirconia Composites. *J Mater Sci: Mater Med*, *19*, 2437–2444.
- Nguyen, T. M., Wang, P.-W., Hsua, H.-M., Cheng, F.-Y., & Shieha, D.-B. (2019). Dental Cement's Biological and Mechanical Properties Improved by ZnO. *Materials Science & Engineering C*, *97*, 116-123.
- Orlovskii, V. P., Komlev, V. S., & Barinov, a. S. (2002). Hydroxyapatite and Hydroxyapatite-Based Ceramics. *INORGANIC MATERIALS*, *38*(10), 1159-1172.
- Piconi, C., & Maccauro, G. (1999). Zirconia as a Ceramic Biomaterial. *Biomaterials*, *20*, 1-25.
- Quan, R., Tang, Y., Huang, Z., Xu, J., Wu, X., & Yang, D. (2013). Study on the genotoxicity of HA/ZrO<sub>2</sub> composite particles in vitro. *Materials Science and Engineering C*, 1332–1338.
- Quan, R., Tanga, Y., Huang, Z., & Xua, J. (2012). Effects of HA/ZrO<sub>2</sub> composite powder on mesenchymal stem cells. *Ceramics International*, 6621–6628.
- Quan, R., Yang, D., & Wu, X. (2007). Preparation of Graded hydroxyapatite–zirconia composite bioceramic and its immunocompatibility in vitro. *Journal of Biomaterials Applications*, 123–145.

- Quan, R., Yang, D., Wu, X., Wang, H., Miao, X., & L, W. (2007). In vitro and in vivo biocompatibility of graded hydroxyapatite–zirconia composite bioceramic. *J Mater Sci*, 19, 183–187.
- Ramesg, T., Gangaiah, M., Harish, P., Krishnakumar, U., & Nandakishore. (2012). Zirconia Ceramics as a Dental Biomaterial- An Over view. *Trens Biomater. Artif. Organs*, 26(3), 154-160.
- Ranjesh, B., Isidot, F., Dalstra, M., & Lovschall, H. (2016). Diametral Tensile Strength of Novel Fast-Setting Calcium Silicate Cement. *Dental Materials Journal*, 35(4), 559–563.
- Roy, S., & Basu, B. (2008). Mechanical and tribological characterization of human tooth. *Mater Charact*, 6, 747-756.
- Sampurno, M. A. (2019). *Studi Eksperimental Pengaruh Temperatur Sintering Terhadap Ketangguhan Retak 3 Mol % Yitria Stabilized Tetragonal Zirconia Polycrystal (3y-Tzp) sebagai Mahkota Gigi Tiruan dengan Metode Ball On Three Balls*. Tugas Akhir Departemen Teknik Mesin dan Industri, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta.
- Sistani, P. B., Kiani-Rashid, A., & Beidokhti, S. M. (2019). Microstructural and Diametral Tensile Strength Evaluation of the Zirconiamullite Composite. *Ceramics International*, 45, 7127-7136.
- Smallman, R. E., & Bishop, R. J. (1999). *Modern Physical Metallurgy Science, Process, Applications* (6th ed.). Oxford: Reed Educational and Professional Publishing.
- Suchanek, W., & Yoshimura, M. (1997). Processing and Properties of hydroxyapatite-based Biomaterials. *Journal of Material Research*, 13, 94-117.
- Swab, J. J., Yu, J., Gamble, R., & Kilczewski, S. (2011). Analysis of the Diametral Compression Method for Determining the Tensile Strength of Transparent. *Int J Fract*, 172, 187–192.
- Swab, J., & Quinn, G. (1997). Fractographic Analysis of Ceramic. *6th International Symposium on Ceramic Material and Components for Engines*, 808-812.
- Yap, A., Pek, Y., Kumar, R., Cheang, P., & Khor, K. (2002). Experimental Studies on a New Bioactive Material: HA Ionomer Cements. *Biomaterials*, 23(3), 955–962.
- Youness, R. A., Taha, M. A., & Ibrahim, M. A. (2020). In Vitro Bioactivity, Molecular Structure and Mechanical Properties of Zirconia-carbonated Hydroxyapatite Nanobiocomposites Sintered at Different Temperatures. *Materials Chemistry and Physics*, 239, 1-12.
- Zaytsev, D., & Panfilov, P. (2014). Deformation Behavior of Human Enamel under Diametral Compression. *Materials Letters*, 136, 130-132.
- Zhang, Y.-R., Du, W., Zhou, X.-D., & Yu, H.-Y. (2014). Review of Research on the Mechanical Properties of the Human Tooth. *International Journal of Oral Science*, 2, 61-69.
- Ziskind, D., Hasday, M., & SR, S. C. (2011). Young's modulus of peritubular and intertubular human dentin by nano-indentation tests. *J Struct Biol*, 1, 23-30.