

DAFTAR PUSTAKA

- Ahmad. Y., dan El-Nagar, I., (2019) *Preparation and characterization of PMMA nanocomposite based on ZnO NPs for antimicrobial packaging application*. Proceeding of the 5th word congress on new technologies. Doi: 10.11159/icnfa19.105.
- Ahmed M, El-Shennawy M, Athomali Y, dan Omar A., (2017) Effect of titanium dioxide nano particles incorporation on mechanical and physical properties on two different types of acrylic resin denture base. *J Nano Sci and Engineering*. 6: 111-9.
- Al-Douri, M. E., dan Sadoon, M. M., (2023) Flexural Strength, Hardness and Surface Roughness of 3D Printed Denture Base Resin Reinforced by Zinc Oxide Nanoparticles. *Journal of Research in Medical and Dental Science*. 11(1): 194-200.
- Al-Harbi, F.A., Abdel Halim, M.S., Gad, M.M., Fouda, S.M., Baba, Nadim, Z., Al Rumaih, H.S., dan Akhtar, S., (2019) Effect of Nanodiamond Addition on Flexural Strength, Impact Strength and Surface Roughness of PMMA Denture Base. *J. Prosthodont*. 28(1): 417– 425.
- Al-Thobity, A.M., dan Gad, M.M., (2019) Effect of Silicon Dioxide Addition on the Flexural Strength of Heat Polymerized Acrylic Denture Base Material : A Systematic Review and Meta-Analysis. *J. Prosthodont*. 28(1): 417– 425.
- Alhotan, A., Yates, J., Zidan, S., Haider, J., dan Silikas, N., (2021) Flexural Strength and Hardness of Filler-Reinforced PMMA Targeted for Denture Base Application. *Materials (Basel)*. 14(10): 2659.
- Anusavice, K.J., Shen, C., dan Rawls, H.P., (2013) *Phillips' Science of Dental Materials*. 12th ed. Elsevier Saunders. Missouri. Hal. 85-92, 163-166, 280, 721-742.
- Apip, C., Martínez, A., Meléndrez, M., Domínguez, M., Marzioletti, T., Báez, R., Sanchez-Sanhueza, G., Jaramillo, A., dan Catalan, A., (2021) An in Vitro Study on The Inhibition and Ultrastructural Alterations of Candida albicans Biofilm by Zinc Oxide Nanowires in a PMMA Matrix. *The Saudi Dental Journal*. 33(8): 944-953
- Asopa, V., Suresh, S., Khandelwal, M., Sharma, V., Asopa, S.S., dan Kaira, L.S., (2015) A Comparative Evaluation of Properties of Zirconia Reinforced High Impact Acrylic Resin with That of High Impact Acrylic Resin. *The Saudi Journal of Dental Research*, 6(1): 146-151.
- Cierech, M., Osica, I., Kolenda, A., Wojnarowicz, Szmigiel, D., Lojkowski, W., Kurzydowski, K., Ariga, K., dan Mierzwinska-Nastalska, E., (2018) Mechanical and Physicochemical Properties of Newly ZnO-PMMA Nanocomposites for Denture Bases. *Nanomaterials*. 8(305):1-13.

- Elfakhri, F., Alkahtani, R., Li, C., dan Khaliq, J., (2022) Influence of Filler Characteristics on The Performance of Dental Composites: A Comprehensive Review. *Ceramics International*, 48: 27280-27294.
- Gad., M., Abualsaud, R., Al-Thobity, A., Baba, N., dan Al-Harbi, F., (2020) Influence of addition of different nanoparticles on the surface properties of poly(methylmethacrylate) denture base material. *J. Prosthodont.* 29(5):422-428.
- Getie, S., Belay, A., Reddy. A.R., dan Belay, Z., (2017) Syntesis and characterizations of zink oxide nanoparticles for antibacterial application. *Journal of nanomedicine & nanotechnology.* s8. Doi:10.4172/2157-7439.s8-004.
- Gopinath, S.C.B. dan Gang, F., (2021) *Nanoparticles in Analytical and Medical Devices*. Elsevier. Missouri. hal. 8.
- Gul, E.B., Atala, M.H., Eser, B., Polat, N.T., Asilturk, M., dan Gultek, A., (2015) Effects of coating with different ceromers on the impact strength, transverse strength and elastic modulus of polymethyl methacrylate. *Dent.Mater. J.* 34(3): 379-387.
- Hammani, S., Daikhi, S., Bechelany, M., dan Barhoum, A., (2022) Role of ZnO Nanoparticles Loading in Modifying the Morphological, Optical, and Thermal propeties of Immiscible Polymer Blends. *Materials*, 15(23): 8453. <https://doi.org/10.3390/ma15238453>.
- Jiang, J., Pi, J., dan Cai, J., (2018) The Advancing of Zinc Oxide Nanoparticles for Biomedical Applications. *Bioinorganic Chemistry and Applications.* 1-18.
- Kamonkhantikul, K., Arksornnukit, M., dan Takahashi, H., (2017) Antifungal, optical, and mechanical properties of polymethylmethacrylate material incorporated with silanized zinc oxide nanoparticles. *International journal of nanomedicine.* 12: 2353–2360.
- Kementerian Kesehatan Republik Indonesia. (2018) *Riset Kesehatan Dasar*. Jakarta: Badan Penelitian dan Pengembangan Kesehatan.
- Khan, H., Raza, M., dan Khan, T.A., (2020) Comparison of Flexural Strenght of Zinc Nanoparticles Reinforced Resin with Conventional Heat Cured Acrylic Resin. *Pakistan Oral & Dental Journal.* 40(1): 51-54.
- Manappalil, J.J., (2016) *Basic Dental Materials*, 4th. ed. Jaypee Brothers Medical Publishers. New Delhi. Hal. 167, 558.
- Manik, S. D., dan Tarigan, S., (2021) Penambahan Nanopartikel Titanium Dioksida Terhadap Kekuatan Fleksural Dan Kekerasan Basis Gigi Tiruan Resin Akrilik Polimerisasi Panas. *B-Dent: Jurnal Kedokteran Gigi Universitas Baiturrahmah.* 8(1): 42-54.
- Şakar, O., (2016) *Removable Partial Dentures: A Practicioners' Manual*. Springer. London. Hal. 4, 10-14.

- Shen, C., Rawls, H. R., dan Esquivel-Upshaw, J. F., (2022) *Phillips' Science of Dental Materials*. 13th ed. Elsevier. Missouri. Hal. 233-237, 242-248.
- Shrestha, S., Wang, B., dan Dutta, P., (2020) Nanoparticle processing: Understanding and controlling aggregation. *Advances in Colloid and Interface Science*. 279, 102-162. <https://doi.org/10.1016/j.cis.2020.102162>
- Sirelkhatim, A., Mahmud, S., Seeni, A., Kaus, N.H.M., Ann, L.C., Bakhori, S.K.M., Hasan, H., dan Mohamad, D., (2015) Review of Zinc Oxide Nanoparticles: Antibacterial Activity and Toxicity Mechanism. *Nano Micro Lett.* 7(3): 219-242.
- Szerszeń, M., Cierech, M., Wojnarowicz, J., Górski, B., dan Mierzwińska Nastalska, E., (2022) Color stability of zinc oxide poly(methyl methacrylate) nanocomposite—a new biomaterial for denture bases. *Polymers*. 14(22): 4982-4985.
- Vikram, S., dan Chander, N.G., (2020) Effect of Zinc Oxide Nanoparticles on the Flexural Strength of Polymethylmethacrylate Denture Base Resin. *Eur Oral Res.* 54(1): 31-5.
- Wypych, G. (2016) *Handbook of Fillers*. 4th ed. ChemTec Publishing. Toronto. hal. 244.
- Xu, J., Huang, Y., Zhu, S., Abbas, N., Jing, X., dan Zhang, L., (2021) A review of the green synthesis of ZnO NP using plant extract and their prospects for application in antibacterial textiles. *Journal of engineered fibers and fabrics*. 16.