

## DAFTAR PUSTAKA

- Abdulhameed, O., Al-Ahmari, A., Ameen, W., Mian, S.H., 2019. Additive manufacturing: Challenges, trends, and applications. *Advances in Mechanical Engineering* 11. <https://doi.org/10.1177/1687814018822880>
- Afdhal Nazan, M., Redza Ramli, F., Sudin, M., Nazan, M.A., Ramli, F.R., Alkahari, M.R., Sudin, M.N., Abdullah, M.A., 2017. Process parameter optimization of 3D printer using Response Surface Method 12.
- Asif, M., Lee, J.H., Lin-Yip, M.J., Chiang, S., Levaslot, A., Giffney, T., Ramezani, M., Aw, K.C., 2018. A new photopolymer extrusion 5-axis 3D printer. *Addit Manuf* 23, 355–361. <https://doi.org/10.1016/j.addma.2018.08.026>
- Attaran, M., 2017. The rise of 3-D printing: The advantages of additive manufacturing over traditional manufacturing. *Bus Horiz* 60, 677–688. <https://doi.org/10.1016/j.bushor.2017.05.011>
- Bekas, D.G., Hou, Y., Liu, Y., Panesar, A., 2019. 3D printing to enable multifunctionality in polymer-based composites: A review. *Compos B Eng.* <https://doi.org/10.1016/j.compositesb.2019.107540>
- Boca, M.A., Sover, A., Slătineanu, L., 2021. The Printing Parameters Effects on the Dimensional Accuracy of the Parts Made of Photosensitive Resin. *Macromol Symp* 396. <https://doi.org/10.1002/masy.202000287>
- Borhani, S., Hassanajili, S., Ahmadi Tafti, S.H., Rabbani, S., 2018. Cardiovascular stents: overview, evolution, and next generation. *Prog Biomater.* <https://doi.org/10.1007/s40204-018-0097-y>
- Charoenying, T., Patrojanasophon, P., Ngawhirunpat, T., Rojanarata, T., Akkaramongkolporn, P., Opanasopit, P., 2020. Three-dimensional (3D)-printed devices composed of hydrophilic cap and hydrophobic body for improving buoyancy and gastric retention of domperidone tablets. *European Journal of Pharmaceutical Sciences* 155. <https://doi.org/10.1016/j.ejps.2020.105555>
- Ciobota, N.D., 2012. Standard tessellation language in rapid prototyping technology. *Sci Bull Valahia Univ*, 7, pp.81-5.
- Derban, P., Negrea, R., Rominu, M., Marsavina, L., 2021. Influence of the printing angle and load direction on flexure strength in 3d printed materials for provisional dental restorations. *Materials* 14. <https://doi.org/10.3390/ma14123376>
- Dussault, A., Pitaru, A.A., Weber, M.H., Haglund, L., Rosenzweig, D.H., Villemure, I., 2022. Optimizing Design Parameters of PLA 3D-Printed

- Scaffolds for Bone Defect Repair. *Surgeries* 3, 162–174.  
<https://doi.org/10.3390/surgeries3030018>
- Dzadz, Ł., Pszczółkowski, B., 2020. Analysis of the influence of UV light exposure time on hardness and density properties of SLA models. *Technical Sciences*. <https://doi.org/10.31648/ts.6119>
- Etami, H.V., Rismawanti, R.I., Hanifah, V.A.N., Herianto, H., Yanuar, Y., Kuswanto, D., Anggrahini, D.W., Gharini, P.P.R., 2022. CT-Derived 3D Printing for Coronary Artery Cannulation Simulator Design Manufacturing. *Bioengineering* 9.  
<https://doi.org/10.3390/bioengineering9080338>
- Fouassier, J., Lalevée, J., 2012. Photoinitiators for Polymer Synthesis: Scope, Reactivity and Efficiency. <https://doi.org/10.1002/9783527648245>
- Frketic, J., Dickens, T., Ramakrishnan, S., 2017. Automated manufacturing and processing of fiber-reinforced polymer (FRP) composites: An additive review of contemporary and modern techniques for advanced materials manufacturing. *Addit Manuf.*  
<https://doi.org/10.1016/j.addma.2017.01.003>
- Gebhardt, A., Hötter, J.-S., 2016. Additive Manufacturing, in: *Additive Manufacturing*. Carl Hanser Verlag GmbH & Co. KG, pp. I–XX.  
<https://doi.org/doi:10.3139/9781569905838.fm>
- Gebler, M., Schoot Uiterkamp, A.J.M., Visser, C., 2014. A global sustainability perspective on 3D printing technologies. *Energy Policy* 74, 158–167.  
<https://doi.org/10.1016/j.enpol.2014.08.033>
- Górski, F., Kuczko, W., Wichniarek, R., 2013. Influence Of Process Parameters On Dimensional Accuracy Of Parts Manufactured Using Fused Deposition Modelling Technology. *Advances in Science and Technology – Research Journal* 7, 27–35.  
<https://doi.org/10.5604/20804075.1062340>
- Goudie, C., Kinnin, J., Bartellas, M., Gullipalli, R., Dubrowski, A., 2019. The Use of 3D Printed Vasculature for Simulation-based Medical Education Within Interventional Radiology. *Cureus*.  
<https://doi.org/10.7759/cureus.4381>
- Hada, T., Kanazawa, M., Iwaki, M., Arakida, T., Soeda, Y., Katheng, A., Otake, R., Minakuchi, S., 2020. Effect of printing direction on the accuracy of 3D-printed dentures using stereolithography technology. *Materials* 13, 1–12. <https://doi.org/10.3390/ma13153405>
- Kaschwich, M., Horn, M., Matthiensen, S., Stahlberg, E., Behrendt, C.A., Matysiak, F., Bouchagiar, J., Dell, A., Ellebrecht, D., Bayer, A., Kleemann, M., 2021. Accuracy evaluation of patient-specific 3D-printed

- aortic anatomy. *Annals of Anatomy* 234. <https://doi.org/10.1016/j.aanat.2020.151629>
- Kaufmann, R., Zech, C.J., Takes, M., Brantner, P., Thieringer, F., Deutschmann, M., Hergan, K., Scharinger, B., Hecht, S., Rezar, R., Wernly, B., Meissnitzer, M., 2022. Vascular 3D Printing with a Novel Biological Tissue Mimicking Resin for Patient-Specific Procedure Simulations in Interventional Radiology: a Feasibility Study. *J Digit Imaging* 35, 9–20. <https://doi.org/10.1007/s10278-021-00553-z>
- Khudyakov, I. V., 2018. Fast photopolymerization of acrylate coatings: Achievements and problems. *Prog Org Coat.* <https://doi.org/10.1016/j.porgcoat.2018.04.030>
- Kim, P.S., Choi, C.H., Han, I.H., Lee, J.H., Choi, H.J., Lee, J. Il, 2019. Obtaining informed consent using patient specific 3D printing cerebral aneurysm model. *J Korean Neurosurg Soc* 62, 398–404. <https://doi.org/10.3340/jkns.2019.0092>
- Kim, T.G., 2021. Optimal microcatheter shaping method customized for a patient-specific vessel using a three-dimensional printer. *J Cerebrovasc Endovasc Neurosurg* 23, 16–22. <https://doi.org/10.7461/jcen.2021.E2020.08.005>
- Kim, Y., Kim, C.H., Kim, T.H., Park, S.H., 2022. Soft Biomimetic 3D Free-Form Artificial Vascular Graft Using a Highly Uniform Microspherical Porous Structure. *ACS Appl Mater Interfaces* 14, 29588–29598. <https://doi.org/10.1021/acsami.2c05839>
- Ko, J., Bloomstein, R.D., Briss, D., Holland, J.N., Morsy, H.M., Kasper, F.K., Huang, W., 2021. Effect of build angle and layer height on the accuracy of 3-dimensional printed dental models. *American Journal of Orthodontics and Dentofacial Orthopedics* 160, 451–458.e2. <https://doi.org/10.1016/j.ajodo.2020.11.039>
- Konishi, T., Ghosh, S.K.B., Sato, Y., Kawakami, R., Kawai, K., Vozenilek, A.E., Xu, W., Bellissard, A., Giasolli, R., Chahal, D., Virmani, R., Finn, A. V., 2023. The histological analysis of the coronary medial thickness: Implications for percutaneous coronary intervention. *PLoS One* 18. <https://doi.org/10.1371/journal.pone.0283840>
- Kruth, J.P., Levy, G., Klocke, F., Childs, T.H.C., 2007. Consolidation phenomena in laser and powder-bed based layered manufacturing. *CIRP Ann Manuf Technol* 56, 730–759. <https://doi.org/10.1016/j.cirp.2007.10.004>
- Lee, J.Y., An, J., Chua, C.K., 2017. Fundamentals and applications of 3D printing for novel materials. *Appl Mater Today.* <https://doi.org/10.1016/j.apmt.2017.02.004>

- Lesage, P., Dembinski, L., Lachat, R., Roth, S., 2022. Mechanical characterization of 3D printed samples under vibration: Effect of printing orientation and comparison with subtractive manufacturing. Results in Engineering 13. <https://doi.org/10.1016/j.rineng.2022.100372>
- Madžarević, M., Ibrić, S., 2021. Evaluation of exposure time and visible light irradiation in LCD 3D printing of ibuprofen extended release tablets. European Journal of Pharmaceutical Sciences 158. <https://doi.org/10.1016/j.ejps.2020.105688>
- Maroni, A., Melocchi, A., Parietti, F., Foppoli, A., Zema, L., Gazzaniga, A., 2017. 3D printed multi-compartment capsular devices for two-pulse oral drug delivery. Journal of Controlled Release 268, 10–18. <https://doi.org/10.1016/j.jconrel.2017.10.008>
- Mashiko, T., Otani, K., Kawano, R., Konno, T., Kaneko, N., Ito, Y., Watanabe, E., 2015. Development of three-dimensional hollow elastic model for cerebral aneurysm clipping simulation enabling rapid and low cost prototyping. World Neurosurg. <https://doi.org/10.1016/j.wneu.2013.10.032>
- Melchels, F.P.W., Feijen, J., Grijpma, D.W., 2010. A review on stereolithography and its applications in biomedical engineering. Biomaterials. <https://doi.org/10.1016/j.biomaterials.2010.04.050>
- Melocchi, A., Parietti, F., Loreti, G., Maroni, A., Gazzaniga, A., Zema, L., 2015. 3D printing by fused deposition modeling (FDM) of a swellable/erodible capsular device for oral pulsatile release of drugs. J Drug Deliv Sci Technol 30, 360–367. <https://doi.org/10.1016/j.jddst.2015.07.016>
- Meththananda, I.M., Parker, S., Patel, M.P., Braden, M., 2009. The relationship between Shore hardness of elastomeric dental materials and Young's modulus. Dental Materials 25, 956–959. <https://doi.org/10.1016/j.dental.2009.02.001>
- Morita, R., Nonoyama, T., Abo, D., Soyama, T., Fujima, N., Imai, T., Hamaguchi, H., Kameda, T., Sugita, O., Takahashi, B., Kinota, N., Kudo, K., 2023. Mechanical Properties of a 3 Dimensional–Printed Transparent Flexible Resin Used for Vascular Model Simulation Compared with Those of Porcine Arteries. Journal of Vascular and Interventional Radiology 34, 871-878.e3. <https://doi.org/10.1016/j.jvir.2023.01.008>
- Mørup, S.D., Stowe, J., Precht, H., Gervig, M.H., Foley, S., 2022. Design of a 3D printed coronary artery model for CT optimization. Radiography 28, 426–432. <https://doi.org/10.1016/j.radi.2021.09.001>
- Mostafa, K.G., Nobes, D.S., Qureshi, A.J., 2020. Investigation of Light-Induced Surface Roughness in Projection Micro-Stereolithography

- Additive Manufacturing (PμSLA), in: *Procedia CIRP*. Elsevier B.V., pp. 187–193. <https://doi.org/10.1016/j.procir.2020.05.177>
- Nandiyanto, A.B.D., Fiandini, M., Ragadhita, R., Sukmafitri, A., Salam, H., Triawan, F., 2020. Mechanical and biodegradation properties of cornstarch-based bioplastic material. *Materials Physics and Mechanics* 44, 380–391. [https://doi.org/10.18720/MPM.4432020\\_9](https://doi.org/10.18720/MPM.4432020_9)
- Ngo, T.D., Kashani, A., Imbalzano, G., Nguyen, K.T.Q., Hui, D., 2018. Additive manufacturing (3D printing): A review of materials, methods, applications and challenges. *Compos B Eng.* <https://doi.org/10.1016/j.compositesb.2018.02.012>
- Nilsson, D.P.G., Holmgren, M., Holmlund, P., Wåhlin, A., Eklund, A., Dahlberg, T., Wiklund, K., Andersson, M., 2022. Patient-specific brain arteries molded as a flexible phantom model using 3D printed water-soluble resin. *Sci Rep* 12. <https://doi.org/10.1038/s41598-022-14279-7>
- Nowacki, B., Kowol, P., Kozioł, M., Olesik, P., Wieczorek, J., Waclawiak, K., 2021. Effect of post-process curing and washing time on mechanical properties of mslaprintouts. *Materials* 14. <https://doi.org/10.3390/ma14174856>
- Oliveira, C., Brito, J., Rodrigues, T., Santiago, H., Ricardo, D., Cardoso, P., Pinto, F.J., Silva Marques, J., 2023. Intravascular imaging modalities in coronary intervention: Insights from 3D-printed phantom coronary models. *Revista Portuguesa de Cardiologia* 42, 629–639. <https://doi.org/10.1016/j.repc.2023.03.001>
- ÖZDİLLİ, Ö., 2021. Comparison of the Surface Quality of the Products Manufactured by the Plastic Injection Molding and SLA and FDM Method. *Uluslararası Muhendislik Arastirma ve Gelistirme Dergisi* 428–437. <https://doi.org/10.29137/umagd.762942>
- Pereira, T., Kennedy, J. V., Potgieter, J., 2019. A comparison of traditional manufacturing vs additive manufacturing, the best method for the job, in: *Procedia Manufacturing*. Elsevier B.V., pp. 11–18. <https://doi.org/10.1016/j.promfg.2019.02.003>
- Quan, H., Zhang, T., Xu, H., Luo, S., Nie, J., Zhu, X., 2020. Photo-curing 3D printing technique and its challenges. *Bioact Mater.* <https://doi.org/10.1016/j.bioactmat.2019.12.003>
- Ren, L., Zhou, X., Song, Z., Zhao, C., Liu, Q., Xue, J., Li, X., 2017. Process parameter optimization of extrusion-based 3D metal printing utilizing PW-LDPE-SA binder system. *Materials* 10. <https://doi.org/10.3390/ma10030305>
- Ribas-Massonis, A., Cicujano, M., Duran, J., Besalú, E., Poater, A., 2022. Free-Radical Photopolymerization for Curing Products for Refinish

- Coatings Market. Polymers (Basel).  
<https://doi.org/10.3390/polym14142856>
- Sangermano, M., 2012. Advances in cationic photopolymerization. Pure and Applied Chemistry. <https://doi.org/10.1351/PAC-CON-12-04-11>
- Schmidleithner, C., Kalaskar, D.M., 2018. Stereolithography, in: 3D Printing. InTech. <https://doi.org/10.5772/intechopen.78147>
- Seprianto, D., Sugiantoro, R., Siproni, Yahya, Erwin, M., 2020. The Effect of Rectangular Parallel Key Manufacturing Process Parameters Made with Stereolithography DLP 3D Printer Technology Against Impact Strength, in: Journal of Physics: Conference Series. Institute of Physics Publishing. <https://doi.org/10.1088/1742-6596/1500/1/012028>
- Shahrubudin, N., Lee, T.C., Ramlan, R., 2019. An overview on 3D printing technology: Technological, materials, and applications, in: Procedia Manufacturing. Elsevier B.V., pp. 1286–1296. <https://doi.org/10.1016/j.promfg.2019.06.089>
- Shaukat, U., Rossegger, E., Schlögl, S., 2022. A Review of Multi-Material 3D Printing of Functional Materials via Vat Photopolymerization. Polymers (Basel). <https://doi.org/10.3390/polym14122449>
- Solanki, R., Gosling, R., Rammohan, V., Pederzani, G., Garg, P., Heppenstall, J., Hose, D.R., Lawford, P. V., Narracott, A.J., Fenner, J., Gunn, J.P., Morris, P.D., 2021. The importance of three dimensional coronary artery reconstruction accuracy when computing virtual fractional flow reserve from invasive angiography. Sci Rep 11. <https://doi.org/10.1038/s41598-021-99065-7>
- Sommer, K., Izzo, R.L., Shepard, L., Podgorsak, A.R., Rudin, S., Siddiqui, A.H., Wilson, M.F., Angel, E., Said, Z., Springer, M., Ionita, C.N., 2017. Design optimization for accurate flow simulations in 3D printed vascular phantoms derived from computed tomography angiography, in: Medical Imaging 2017: Imaging Informatics for Healthcare, Research, and Applications. SPIE, p. 101380R. <https://doi.org/10.1117/12.2253711>
- Soto-Montero, J., de Castro, E.F., Romano, B. de C., Nima, G., Shimokawa, C.A.K., Giannini, M., 2022. Color alterations, flexural strength, and microhardness of 3D printed resins for fixed provisional restoration using different post-curing times. Dental Materials 38, 1271–1282. <https://doi.org/10.1016/j.dental.2022.06.023>
- Stefano, G., Salvatore, P.G., Alba, S., Silvia, V., Vincenzo, T., Federica, T., 2022. 3D Stereolithography for hollow cerebral aneurysm models, in: Procedia CIRP. Elsevier B.V., pp. 203–207. <https://doi.org/10.1016/j.procir.2022.06.037>



- Stepniak, K., Ursani, A., Paul, N., Naguib, H., 2020. Novel 3D printing technology for CT phantom coronary arteries with high geometrical accuracy for biomedical imaging applications. *Bioprinting* 18. <https://doi.org/10.1016/j.bprint.2020.e00074>
- Taormina, G., Sciancalepore, C., Messori, M., Bondioli, F., 2018. 3D printing processes for photocurable polymeric materials: technologies, materials, and future trends. *J Appl Biomater Funct Mater*. <https://doi.org/10.1177/2280800018764770>
- Tong, K., Lehtihet, E.A., Joshi, S., 2003. Parametric error modeling and software error compensation for rapid prototyping. *Rapid Prototyp J*. <https://doi.org/10.1108/13552540310502202>
- Torres, I.O., De Luccia, N., 2017. A simulator for training in endovascular aneurysm repair: The use of three dimensional printers. *European Journal of Vascular and Endovascular Surgery* 54, 247–253. <https://doi.org/10.1016/j.ejvs.2017.05.011>
- Unkovskiy, A., Bui, P.H.B., Schille, C., Geis-Gerstorfer, J., Huettig, F., Spintzyk, S., 2018. Objects build orientation, positioning, and curing influence dimensional accuracy and flexural properties of stereolithographically printed resin. *Dental Materials* 34, e324–e333. <https://doi.org/10.1016/j.dental.2018.09.011>
- Wang, Y., Blache, R., Xu, X., 2017. Selection of additive manufacturing processes. *Rapid Prototyp J* 23, 434–447. <https://doi.org/10.1108/RPJ-09-2015-0123>
- Wibowo, G., Anggrahini, D.W., Rismawanti, R.I., Nurul Fatimah, V.A., Hakim, A., Hidayah, R.N., Ratna Gharini, P.P., 2023. 3D-Printing-Based Fluoroscopic Coronary Angiography Simulator Improves Learning Capability Among Cardiology Trainees. *Adv Med Educ Pract* 14, 763–771. <https://doi.org/10.2147/AMEP.S407629>
- Xu, T., Shen, W., Lin, X., Xie, Y.M., 2020. Mechanical properties of additively manufactured thermoplastic polyurethane (TPU) material affected by various processing parameters. *Polymers (Basel)* 12, 1–16. <https://doi.org/10.3390/polym12123010>
- Zakeri, S., Vippola, M., Levänen, E., 2020. A comprehensive review of the photopolymerization of ceramic resins used in stereolithography. *Addit Manuf*. <https://doi.org/10.1016/j.addma.2020.101177>
- Zhou, J.G., Herscovici, D., Chen, C.C., 2000. Parametric process optimization to improve the accuracy of rapid prototyped stereolithography parts, *International Journal of Machine Tools & Manufacture*.