

Journal Publications

1. Yulius Shan Romario, Chinmai Bhat, Maziar Ramezani, Tim Pasang, Zhangwei Chen, Cho-Pei Jiang, "Fabrication of translucent graded dental crown using zirconia-yttrium multi-slurry tape casting 3D printer", *Journal of the Mechanical Behavior of Biomedical Materials*, January 2024, 106406
2. Tim Pasang, Arief S. Budiman, J.C. Wang, C.P. Jiang, Rodney Boyer, Jim Williams, Wojciech Z. Misiolek, "Additive manufacturing of titanium alloys – Enabling re-manufacturing of aerospace and biomedical components", *Microelectronic Engineering* 270 (2023) 111935
3. Maziar Ramezani, Zaidi Mohd Ripin, Tim Pasang and Cho-Pei Jiang, "Surface Engineering of Metals: Techniques, Characterizations and Applications", *Metals* 2023, 13, 1299. <https://doi.org/10.3390/met13071299>
4. Maziar Ramezani, Zaidi Mohd Ripin, Cho-Pei Jiang and Tim Pasang, "Superlubricity of Materials: Progress, Potential, and Challenges", *Materials* 2023, 16, 5145. <https://doi.org/10.3390/ma16145145>
5. Cho-Pei Jiang, Andi Ard Maidhah, Shun-Hsien Wang, Yuh-Ru Wang, Tim Pasang and Maziar Ramezani, "Laser Powder Bed Fusion of Inconel 718 Tools for Cold Deep Drawing Applications: Optimization of Printing and Post-Processing Parameters", *Materials* 2023, 16, 4707. <https://doi.org/10.3390/ma16134707>
6. Arief Suriadi Budiman, D. Speaks, E. Hossain, S.K. Tippabhotla, R. Sahay, A. Baji, T. Pasang, "Battery anode design: From 1D nanostructure to 3D nanoarchitecture – Enabling next-generation energy storage technology", *Microelectronic Engineering*, Volume 270 (2023), 111927
7. Nico Hananda, Azure Kamul, Christian Harito, Arief Budiman, Endang Djuana, Timotius Pasang, "Battery optimization by machine learning algorithms: Research gap via bibliometric analysis", *May 2023E3S Web of Conferences* 388, DOI:10.1051/e3sconf/202338801020
8. Azure Kamul, Nico Hananda, Christian Harito, Arief Budiman, Endang Djuana, Tim Pasang, "Machine Learning Application in Battery Prediction: A Systematic Literature Review and Bibliometric Study", *May 2023E3S Web of Conferences* 388, DOI:10.1051/e3sconf/202338801021
9. Ryo G. Widjaja, Muhammad Asrol, Iwan Agustono, Endang Djuana, Christian Harito, G. N. Elwirehardja, Bens Pardamean, Fergyanto E. Gunawan, Tim Pasang, Derrick Speaks, Arief S. Budiman, "State of Charge Estimation of Lead Acid Battery using Neural Network for Advanced Renewable Energy Systems", *Emerging Science Journal* 7(3):691-703, May 2023, DOI:10.28991/ESJ-2023-07-03-02
10. Cho-Pei Jiang, Alvian Toto Wibisono, Shun-Hsien Wang, Tim Pasang and Maziar Ramezani, "Selective Laser Melting of Free-Assembled Stainless Steel 316L Hinges: Optimization of Volumetric Laser Energy Density and Joint Clearance", *Metals* 2022, 12, 1223. <https://doi.org/10.3390/met12071223>
11. Tim Pasang, Pai-Chen Lin, Wojciech Z. Misiolek, Jia-Yuan Wei, Shinichiro Masuno, Masahiro Tsukamoto, Eiji Hori, Yuji Sato, Yuan Tao, Danang Yudhistiro and Salahuddin Yunus, "Blue Diode Laser Welding of Commercially Pure Titanium Foils", *Quantum Beam Sci.* 2022, 6, 24. <https://doi.org/10.3390/qubs6030024>
12. Ronny Lesmana, Felix Zuhendri, Ilham Irsyam, Renaldi Prasetya Nagarasyid, Trimurni Abidin, James Fearnley, Anant Pradhakar, Arief S Budiman, Timotius Pasang, "The Suitability of Propolis as A Bioactive Component of Biomaterials", accepted, *Frontiers in Pharmacology*, section Ethnopharmacology, May 2022

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14. Steve Ales, S. Yazdani, Timotius Pasang, Zhan W. Chen, "Fatigue strength of friction stir lap welded AA2024 to Ti6Al4V dissimilar joints", April 2022, Engineering Failure Analysis 138(9-12):106309, DOI:10.1016/j.engfailanal.2022.106309
15. Cho-Pei Jiang, Alvian Toto Wibisono, Timotius Pasang, Selective Laser Melting of Stainless Steel 316L with Face-Centered-Cubic-Based Lattice Structures to Produce Rib Implants, October 2021, Materials 14(20):5962, DOI:10.3390/ma14205962
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17. Tim Pasang, Benny Tavlovich, Omri Yannay, Ben Jackson, Mike Fry, Yuan Tao, Celine Turangi, Jia-Chang Wang, Cho-Pei Jiang, Yuji Sato, Masahiro Tsukamoto and Wojciech Z. Misiolek, Directionally-Dependent Mechanical Properties of Ti6Al4V Manufactured by Electron Beam Melting (EBM) and Selective Laser Melting (SLM), Materials 2021, 14, 3603.
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