



Tethon 3D Product Independent Scholarly Journal Publications (only English sources)

1. Bai S, et al. Tunable hydrogen enhancement of Ce³⁺ doped CdS with different Poisson's ratio support. *J Colloid and Interface Sci.* 628(A), 673-683, Dec 2022.
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2. Izquierdo-Reyes, J. et al. Compact Retarding Potential Analyzers Enabled by Glass-Ceramic Vat Polymerization for CubeSat and Laboratory Plasma Diagnostics. *Additive Mfg*, 2022; 103034 DOI: 10.1016
<https://www.sciencedirect.com/science/article/pii/S2214860422004262?via%3Dihub>
3. Rao Y. et al. 3D-printed lattice structures with SiC whiskers to strengthen thermal metamaterials. *Ceramics International* 48(21), November 2022, 32283-32289.
<https://www.sciencedirect.com/science/article/pii/S0272884222025597>
4. Chen J. et al. Fabrication of YAG ceramic tube by UV-assisted direct ink writing. *Ceramics International* 48(14), 19703-19708, July 2022.
<https://www.sciencedirect.com/science/article/pii/S0272884222009701>
5. Miao G, et al. Experimental investigation on the effect of roller traverse and rotation speeds on ceramic binder jetting additive manufacturing. *J of Mfg Processes* 79, 887-894, July 2022.
<https://www.sciencedirect.com/science/article/abs/pii/S152661252200353X>
6. Jin Z. et al. High-strength superhydrophilic/underwater superoleophobic multifunctional ceramics for high efficiency oil-water separation and water purification. *Mat Today Nano* 18, 100199, June 2022.
<https://www.sciencedirect.com/science/article/pii/S258884202200027X>
7. Huang W. et al. Bioinspired Hierarchical-Pore Anchoring Strategy Advancing Synergistic Photocatalytic-Mechanical Properties. May 2022.
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8. Chang P, et al. Engineering (Ni, Co, Mn) Se nanoarrays with 3D-Printed wave-structure carbon-rich lattice towards ultrahigh-capacity, complex-stress and all-climate energy storage. *Carbon* 187, pp. 375-385, February 2022.
<https://www.sciencedirect.com/science/article/abs/pii/S0008622321011076>
9. Zhang M et al. 3D printing of CuO/Cu@Mullite electrodes with microporous structures and their strong regulation on zinc ion storage. *Ceramics International* 48(3), 4124-4133, Feb 2022.
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10. Esteves AVM, et al. Additive manufacturing of ceramic alumin/calcium phosphate structures by DLP 3D printing. *Material Chem and Physics* 276, 125417, Jan 2022.
<https://www.sciencedirect.com/science/article/abs/pii/S0254058421012001>
11. Mei H, Yang D. et al. 3D-printed impedance gradient Al₂O₃ ceramic with in-situ growing needle-like SiC nanowires for electromagnetic wave absorption. *Ceramics International*. 47(22), November 2021. 31990-31999.
<https://www.sciencedirect.com/science/article/pii/S0272884221024573>
12. Halley S, Tsui L, Garzon F. Combined Mixed Potential Electrochemical Sensors and Artificial Neural Networks for the Quantification and Identification of Methane in Natural Gas Emissions Monitoring. *J of Electrochemical Soc.* Sept 2021.
<https://iopscience.iop.org/article/10.1149/1945-7111/ac2465/meta>
13. Rosenberger A. et al. Rheology and processing of UV-curable textured alumina inks for additive manufacturing. *Intl J of Applied Ceramic Tech.* April 2021.
<https://ceramics.onlinelibrary.wiley.com/doi/10.1111/ijac.13784>
14. Su X., Wang T., Guo S. Applications of 3D printed bone tissue engineering scaffolds in the stem cell field. *Regenerative Therapy* Vol 16, pp. 63-72. March 2021.
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15. Mei H. et al. In-situ growth of SiC nanowires@carbon nanotubes on 3D printed metamaterial structures to enhance electromagnetic wave absorption. *Materials & Design* 197, 109271, Jan 2021.
<https://www.sciencedirect.com/science/article/pii/S0264127520308066>
16. Jin Z. et al. 3D-printed controllable gradient pore superwetting structures for high temperature efficient oil-water separation. *J of Materiomics* 7(1) 8-18, Jan 2021.
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17. Zhou S, Mei H, Lu M, Chen L. 3D printed and structurally strengthened ammonia sensor. *Applied Sci and Mfg* 139, 106100, Dec 2020.
<https://www.sciencedirect.com/science/article/abs/pii/S1359835X20303390>
18. Palojarvi, A. et al. Evaluation of 3D Printed Scaffolds for Tissue Engineering. IEEE Intl Conf of Nanomaterials: Application and Properties (NAP-2020), Nov 9-13, 2020.
19. Gibson I. et al. Materials for Additive Manufacturing. *Additive Mfg Tech*, 379-428, Nov 2020. https://link.springer.com/chapter/10.1007/978-3-030-56127-7_14
20. Zuo, Y, Su X, Li X, Yao Z, Ru T, Zhou J, Li J, Lu J, Ding J. Multimaterial 3D-printing of grapheme/LiZnFeO₄ and grapheme/carbonyl iron composites with superior microwave absorption properties and adjustable bandwidth. *Carbon*. Vol 167, pp. 62-74, October 2020.
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22. Li J. et al. Printable two-dimensional superconducting monolayers. *Nature*, Oct 2020.
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24. Xiong S. Materials, Application Status and Development Trends of Additive Manufacturing Technology. *Mat Trans* Vol 61 (7), pp 1191-1199, 2020.
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26. Chen Z, Zhang D, Peng E and Ding J. 3D-Printed Ceramic Structures with In situ Grown Whiskers for Effective Oil/Water Separation. *Chem Eng J.* Vol 373, pp. 1223-1232, October 2019.
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27. Huson D. Robotic Ceramic Paste Extrusion for Industrial Prototyping and Production. NIP & Digital Fabrication Conf, Soc for Imaging Sci and Tech, September 2019.
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32. Kovalenko, I, Ramachandran Y, Garan, M. Experimental Shrinkage Study of Ceramic DLP 3D Printed Parts After Firing Green Bodies in a Kiln. *MM Science Journal*. March 2019.
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