



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

Bison 1000:

1. Myles A, Griffith A, Faisal Riyadh M, Jiao Y, Mahmoudi M, Minary-holandan M. (UT Dallas). 3D-Printed Ceramics with Aligned Micro-Platelets. *ACS Appl. Eng. Mater.* 2023, 1, 7, 1892–1902. July 3, 2023
2. Martinez AC, Maurel A, Aranzola AP, Grugeon S, Panier S, Dupont L, Hernandez-Viezcas JA, Mummareddy B, Armstrong BL, Cortes P, Sreenivasan ST, MacDonald E. Additive manufacturing of $\text{LiNi}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$ battery electrode material via vat photopolymerization precursor approach. *Sci Reports Nature* Nov 8 2022;12(1):19010. doi: 10.1038/s41598-022-22444-1. PMID: 36347903; PMCID: PMC9643428. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9643428/>
3. Edhere, ES. (NC A&T) 3D-Printing of Dielectric Antennas Through Digital Light Processing. Master's Thesis Dissertation, 2022. <https://www.proquest.com/openview/aadeee03b63c13489b7096a96a62dafb/1?q-origsite=qscholar&cbl=18750&diss=y>

Porcelite:

4. Bai S, et al. Tunable hydrogen enhancement of Ce^{3+} doped CdS with different Poisson's ratio support. *J Colloid and Interface Sci.* 628(A), 673-683, Dec 2022. <https://www.sciencedirect.com/science/article/abs/pii/S0021979722013625>
5. Bove A, Tulliani JM, Galati M, Calignano F. Investigation of the influence of process paramets on dimensional accuracy and post-sintering crack formation in ceramic 3D printing for porcelain-based commercial resins. *Progress in Additive Manufacturing.* November 2022. <https://link.springer.com/article/10.1007/s40964-022-00363-x>
6. 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>
7. 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>
8. Huang W. et al. Bioinspired Hierarchical-Pore Anchoring Strategy Advancing Synergistic Photocatalytic-Mechanical Properties. May 2022. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4116072

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.
<https://www.sciencedirect.com/science/article/pii/S0272884221033459>
10. 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>
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. 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.
<https://www.sciencedirect.com/science/article/pii/S2352847820300691>
13. 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>
14. 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>
15. 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
16. 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.
17. Mei H, Zhao R, Xia Y, Du J, Wang X, Cheng L. Ultrahigh Strength Printed Ceramic Lattices. *J. Alloys and Compounds* Vol 797, pp. 786-796, August 2019.
<https://www.sciencedirect.com/science/article/abs/pii/S0925838819317888>
18. Mei H, Huang W, Liu H, Pan L, Cheng L. 3D Printed Carbon-ceramic Structures for Enhancing Photocatalytic Properties. *Ceramics Intl*. Vol 45 (12), pp. 15223-15229, August 2019.
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19. Chang P, et al. 3D Structural Strengthening Urchin-Like Cu(OH)₂-Based Symmetric Supercapacitors with Adjustable Capacitance. *Advanced Function Materials*, June 2019.
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20. Mei H, Huang W, Zhao Y, Cheng L. Strengthening three-dimensional printed ultra-light ceramic lattices. *J. Am Ceramic Soc.* Feb 22, 2019.
<https://ceramics.onlinelibrary.wiley.com/doi/abs/10.1111/jace.16403>

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21. Stefan E., et. al. Effects of powder properties on the 3D printing of BaTiO₃ ceramic resins by stereolithography. *Progress in Additive Manufacturing*, March 2023. <https://link.springer.com/article/10.1007/s40964-023-00431-w>
22. Aguiar BA, Nisar A, Thomas T, Zhang C, Agarwal A. (Florida International University) In-situ resource utilization of lunar highlands regolith via additive manufacturing using digital light processing. *Ceramics Intl* 49 (11) Part A 2023. 17283-17295.
<https://www.sciencedirect.com/science/article/abs/pii/S0272884223003814>
23. Kakanuru, P, & Pochiraju, K. Stereolithography Printing and Sintering of Silicon Carbide (SiC) Ceramics via Oxidation-Bonding. *Proceedings of the ASME 2022 International Mechanical Engineering Congress and Exposition. Volume 2A: Advanced Manufacturing*. Columbus, Ohio, USA. October 30–November 3, 2022. V02AT02A023. ASME.
<https://asmedigitalcollection.asme.org/IMECE/proceedings-abstract/IMECE2022/86632/1156788>
24. 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>
25. 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>
26. 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.
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27. Rosenberger A. et al. Rheology and processing of UV-curable textured alumina inks for additive manufacturing. *Intl J of Applied Ceramic Tech.* April 2021.
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28. Li J. et al. Printable two-dimensional superconducting monolayers. *Nature*, Oct 2020.
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29. 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.
<https://www.sciencedirect.com/science/article/abs/pii/S0008622320305121>
30. Zuo Y. et al. Multimaterial 3D-printing of graphene/LiZnFeO₄ and graphene/carbonyl iron composites with superior microwave absorption properties and adjustable bandwidth. *Carbon* 167, 62-74, Oct 2020.
<https://www.sciencedirect.com/science/article/abs/pii/S0008622320305121>
31. Zhao K, Cui, B. (University of Nebraska) Synthesis of SiC Resin for 3D Printing of SiC Ceramics by Digital Light Processing. Poster presentation. UCARE Research Fair, Spring 2020. University of Nebraska.
<https://digitalcommons.unl.edu/ucareresearch/216/>
32. Kanaujia P, Azkhairy bin Ramezan M, et al. Mechanical Response of Lightweight Hollow Truss metal Oxide Lattices. *Materialia* Vol 8, December 2019.
<https://www.sciencedirect.com/science/article/pii/S2589152919302352>
33. 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.
<https://www.sciencedirect.com/science/article/abs/pii/S138589471931174X>
34. Bergeron A. and Crigger J. Early Progress on Additive Manufacturing of Nuclear Fuel Materials. *J Nuclear Materials*, May 2018.

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35. Izquierdo-Reyes, J. et al. (MIT) 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>
36. 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.
https://www.researchgate.net/profile/Iaroslav_Kovalenko/publication/331569664_Experimental_shrinkage_study_of_ceramic_DLP_3D_printed_parts_after_firing_green_bodies_in_a_KILN/links/5c99dfe492851cf0ae98335e/Experimental-shrinkage-study-of-ceramic-DLP-3D-printed-parts-after-firing-green-bodies-in-a-KILN.pdf

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37. 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.
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38. Chittenden, T. Printed Pots and computerize coils: The place of 3D printing in ceramic practice. *Craft Res*, Vol 9(1), pp. 9-40. March 2018.
<https://www.ingentaconnect.com/content/intellect/crre/2018/00000009/00000001/art00002>
39. Phillips, J. A Detailed Look into System Integration of Material Types Through the Use of 3D Printing. Architecture Senior Thesis, Syracuse University. Spring 2017.
https://surface.syr.edu/architecture_theses/409/

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40. Ou J, Dublon G, Cheng C, Heibeck, F, Willis K, and Ishii, H. (MIT) Cillia – 3D Printed Micro-Pillar Structures for Surface Texture, Actuation and Sensing. CHI Conference, 2016. *MIT Tech Rev* Vol 508, p. 344-347, 2016.
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