Martin Schwentenwein

List of Publications by Year
in descending order

37	1,967	430874 18	414414 32
papers	citations	h-index	g-index

38	38	38	2007
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Digital light processing stereolithography of hydroxyapatite scaffolds with boneâ€like architecture, permeability, and mechanical properties. Journal of the American Ceramic Society, 2022, 105, 1648-1657.	3.8	54
2	Effect of binder system on the thermophysical properties of 3Dâ€printed zirconia ceramics. International Journal of Applied Ceramic Technology, 2022, 19, 174-180.	2.1	10
3	Additive manufacturing of aluminum nitride ceramics with high thermal conductivity via digital light processing. Open Ceramics, 2022, 9, 100215.	2.0	13
4	Vat Photopolymerization Additive Manufacturing of Functionally Graded Materials: A Review. Journal of Manufacturing and Materials Processing, 2022, 6, 17.	2.2	18
5	Ceramic Additive Manufactured Monolithic X-Shaped TM Dual-Mode Filter. IEEE Journal of Microwaves, 2022, 2, 496-506.	6.5	8
6	Lithography-based additive manufacturing of porosity graded alumina. Additive Manufacturing Letters, 2022, 3, 100060.	2.1	2
7	Stereolithography-based additive manufacturing of polymer-derived SiOC/SiC ceramic composites. Journal of the European Ceramic Society, 2022, 42, 5343-5354.	5.7	13
8	High-reliability data processing and calculation of microstructural parameters in hydroxyapatite scaffolds produced by vat photopolymerization. Journal of the European Ceramic Society, 2022, 42, 6206-6212.	5.7	12
9	Simulation-Based Investigation of the Integration Capabilities of 3D-Printed Ceramic Heat Exchange Structures for Thermoelectric Modules. , 2022, , .		0
10	Knowledge-Driven Manufacturability Analysis for Additive Manufacturing. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 207-223.	6.8	10
11	Additive manufacturing of high-strength alumina through a multi-material approach. Open Ceramics, 2021, 5, 100082.	2.0	12
12	Additive manufacturing of lunar regolith structures. Open Ceramics, 2021, 5, 100058.	2.0	32
13	Transparent laser ceramics by stereolithography. Scripta Materialia, 2020, 187, 194-196.	5.2	31
14	Dense, Strong, and Precise Silicon Nitride-Based Ceramic Parts by Lithography-Based Ceramic Manufacturing. Applied Sciences (Switzerland), 2020, 10, 996.	2.5	49
15	Comparison of HTP catalyst performance for different internal monolith structures. Acta Astronautica, 2019, 164, 106-111.	3.2	7
16	Manufacturability Analysis for Additive Manufacturing. , 2019, , .		2
17	Multiscale ceramic components from preceramic polymers by hybridization of vat polymerization-based technologies. Additive Manufacturing, 2019, 30, 100913.	3.0	16
18	Application of high resolution DLP stereolithography for fabrication of tricalcium phosphate scaffolds for bone regeneration. Biomedical Materials (Bristol), 2019, 14, 045018.	3.3	78

#	Article	IF	Citations
19	Validation of a novel 3D flow model for the optimization of construct perfusion in radial-flow packed-bed bioreactors (rPBBs) for long-bone tissue engineering. New Biotechnology, 2019, 52, 110-120.	4.4	6
20	Development of catalytic materials for decomposition of ADN-based monopropellants. Acta Astronautica, 2019, 158, 407-415.	3.2	23
21	Complex mullite structures fabricated via digital light processing of a preceramic polysiloxane with active alumina fillers. Journal of the European Ceramic Society, 2019, 39, 1336-1343.	5.7	59
22	New technologies for ammonium dinitramide based monopropellant thrusters â€“ The project RHEFORM. Acta Astronautica, 2018, 143, 105-117.	3.2	57
23	Lithography-based additive manufacture of ceramic biodevices with design-controlled surface topographies. International Journal of Advanced Manufacturing Technology, 2017, 88, 1547-1555.	3.0	23
24	Stabilization of tricalcium phosphate slurries against sedimentation for stereolithographic additive manufacturing and influence on the final mechanical properties. International Journal of Applied Ceramic Technology, 2017, 14, 499-506.	2.1	38
25	Fractography of zirconia-specimens made using additive manufacturing (LCM) technology. Journal of the European Ceramic Society, 2017, 37, 4331-4338.	5.7	96
26	Monolithic 3D labs- and organs-on-chips obtained by lithography-based ceramic manufacture. International Journal of Advanced Manufacturing Technology, 2017, 93, 3371-3381.	3.0	13
27	Additive Manufacturing of Ceramic Materials: a Performance Comparison of Catalysts for Monopropellant Thrusters. , 2017, , .		3
28	The RHEFORM Project - Developments for ADN-Based Liquid Monopropellant Thrusters. , 2017, , .		3
29	Development of monoblock TM dielectric resonator filters with additive manufacturing. IET Microwaves, Antennas and Propagation, 2017, 11, 1992-1996.	1.4	10
30	Stereolithography of SiOC Ceramic Microcomponents. Advanced Materials, 2016, 28, 370-376.	21.0	320
31	Lithography-based ceramic manufacture (LCM) of auxetic structures: present capabilities and challenges. Smart Materials and Structures, 2016, 25, 054015.	3.5	54
32	Toughening of photo-curable polymer networks: a review. Polymer Chemistry, 2016, 7, 257-286.	3.9	308
33	Additive Manufacturing of Dense Alumina Ceramics. International Journal of Applied Ceramic Technology, 2015, 12, 1-7.	2.1	332
34	Vinylcarbonates and vinylcarbamates: Biocompatible monomers for radical photopolymerization. Journal of Polymer Science Part A, 2011, 49, 650-661.	2.3	44
35	Biomaterials based on low cytotoxic vinyl esters for bone replacement application. Journal of Polymer Science Part A, 2011, 49, 4927-4934.	2.3	33
36	Vinyl esters: Low cytotoxicity monomers for the fabrication of biocompatible 3D scaffolds by lithography based additive manufacturing. Journal of Polymer Science Part A, 2009, 47, 6941-6954.	2.3	133

#	Article	IF	Citations
37	Lithography-Based Ceramic Manufacturing: A Novel Technique for Additive Manufacturing of High-Performance Ceramics. Advances in Science and Technology, 0, , .	0.2	43