

Andrea Zocca

List of Publications by Year in descending order

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29
papers

1,431
citations

516710

16
h-index

580821

25
g-index

31
all docs

31
docs citations

31
times ranked

1588
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive Manufacturing of Ceramics: Issues, Potentialities, and Opportunities. Journal of the American Ceramic Society, 2015, 98, 1983-2001.	3.8	726
2	SiOC ceramics with ordered porosity by 3D-printing of a preceramic polymer. Journal of Materials Research, 2013, 28, 2243-2252.	2.6	80
3	Direct Ink Writing of a Preceramic Polymer and Fillers to Produce Hardystonite ($\text{Ca}_2\text{ZnSi}_2\text{O}_7$) Bioceramic Scaffolds. Journal of the American Ceramic Society, 2016, 99, 1960-1967.	3.8	79
4	3D-printed silicate porous bioceramics using a non-sacrificial preceramic polymer binder. Biofabrication, 2015, 7, 025008.	7.1	69
5	LAS glass-ceramic scaffolds by three-dimensional printing. Journal of the European Ceramic Society, 2013, 33, 1525-1533.	5.7	57
6	Additive manufacturing of SiSiC by layerwise slurry deposition and binder jetting (LSD-print). Journal of the European Ceramic Society, 2019, 39, 3527-3533.	5.7	50
7	Design, Analysis and Additive Manufacturing of Porous Structures for Biocompatible Micro-Scale Scaffolds. Procedia CIRP, 2013, 5, 247-252.	1.9	48
8	3D printing of porcelain by layerwise slurry deposition. Journal of the European Ceramic Society, 2018, 38, 3395-3400.	5.7	43
9	Development of bioactive silicate-based glass-ceramics from preceramic polymer and fillers. Journal of the European Ceramic Society, 2015, 35, 731-739.	5.7	35
10	Enabling the 3D Printing of Metal Components in Microgravity. Advanced Materials Technologies, 2019, 4, 1900506.	5.8	31
11	Hardystonite bioceramics from preceramic polymers. Journal of the European Ceramic Society, 2016, 36, 829-835.	5.7	30
12	Clay in situ resource utilization with Mars global simulant slurries for additive manufacturing and traditional shaping of unfired green bodies. Acta Astronautica, 2020, 174, 241-253.	3.2	23
13	Powder-Bed Stabilization for Powder-Based Additive Manufacturing. Advances in Mechanical Engineering, 2014, 6, 491581.	1.6	21
14	Towards the colonization of Mars by in-situ resource utilization: Slip cast ceramics from Martian soil simulant. PLoS ONE, 2018, 13, e0204025.	2.5	21
15	Investigation of the sintering and melting of JSC-2A lunar regolith simulant. Ceramics International, 2020, 46, 14097-14104.	4.8	21
16	Bioactive glass-ceramic scaffolds by additive manufacturing and sinter-crystallization of fine glass powders. Journal of Materials Research, 2018, 33, 1960-1971.	2.6	20
17	Selective laser densification of lithium aluminosilicate glass ceramic tapes. Applied Surface Science, 2013, 265, 610-614.	6.1	15
18	Searching for biological feedstock material: 3D printing of wood particles from house borer and drywood termite frass. PLoS ONE, 2021, 16, e0246511.	2.5	10

#	ARTICLE	IF	CITATIONS
19	Characterization of powder flow behavior for additive manufacturing. Additive Manufacturing, 2021, 47, 102250.	3.0	10
20	Literature review: Methods for achieving high powder bed densities in ceramic powder bed based additive manufacturing. Open Ceramics, 2021, 8, 100191.	2.0	9
21	Sintering of ceramics for clay in situ resource utilization on Mars. Open Ceramics, 2020, 3, 100008.	2.0	8
22	Structural optimization of printed structures by self-organized relaxation. Rapid Prototyping Journal, 2016, 22, 344-349.	3.2	6
23	3D Printing of Self-Organizing Structural Elements for Advanced Functional Structures. Advanced Materials Technologies, 2018, 3, 1800003.	5.8	5
24	Manufacturing of ceramic components with internal channels by a novel additive/subtractive hybridization process. Open Ceramics, 2020, 2, 100010.	2.0	4
25	Additive Manufacturing. , 2021, , 203-221.		3
26	Designing apatite/wollastonite (A/W) porous scaffolds by powder-based 3D printing. , 2013, , 159-163.		3
27	An approach to monitor the real-time deformation during heat treatment of 3D-printed glass. Ceramics International, 2021, 47, 20045-20050.	4.8	1
28	Self-Organization Postprocess for Additive Manufacturing in Producing Advanced Functional Structure and Material. Advanced Engineering Materials, 0, , 2101262.	3.5	1
29	Editorial: Advances in additive manufacturing of ceramics. Open Ceramics, 2022, 10, 100277.	2.0	0