

Amelia Elliott

List of Publications by Year in descending order

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22
papers

1,682
citations

471509

17
h-index

677142

22
g-index

28
all docs

28
docs citations

28
times ranked

1470
citing authors

#	ARTICLE	IF	CITATIONS
1	Binder Jet-Metals. , 2022, , 120-133.		2
2	Binder jet 3D printingâ€™Process parameters, materials, properties, modeling, and challenges. Progress in Materials Science, 2021, 119, 100707.	32.8	412
3	W-ZrC composites prepared by reactive melt infiltration of Zr2Cu alloy into binder jet 3D printed WC preforms. International Journal of Refractory Metals and Hard Materials, 2021, 94, 105411.	3.8	16
4	Properties of SiCâ€™Si made via binder jet 3D printing of SiC powder, carbon addition, and silicon melt infiltration. Journal of the American Ceramic Society, 2021, 104, 5467-5478.	3.8	29
5	Additive manufacturing of strong silica sand structures enabled by polyethyleneimine binder. Nature Communications, 2021, 12, 5144.	12.8	21
6	3D-printed B4C collimation for neutron pressure cells. Review of Scientific Instruments, 2021, 92, 093903.	1.3	6
7	High-Performance Titanium Oxynitride Thin Films for Electrocatalytic Water Oxidation. ACS Applied Energy Materials, 2020, 3, 8366-8374.	5.1	27
8	Processing and properties of SiC composites made via binder jet 3D printing and infiltration and pyrolysis of preceramic polymer. International Journal of Ceramic Engineering & Science, 2020, 2, 320-331.	1.2	20
9	Lightweight TiCâ€™(Feâ€™Al) ceramicâ€™metal composites made in situ by pressureless melt infiltration. Journal of Materials Science, 2019, 54, 12573-12581.	3.7	7
10	Microstructure evolution during near-net-shape fabrication of NixAly-TiC cermets through binder jet additive manufacturing and pressureless melt infiltration. International Journal of Refractory Metals and Hard Materials, 2019, 84, 104985.	3.8	17
11	Processing of complex-shaped collimators made via binder jet additive manufacturing of B4C and pressureless melt infiltration of Al. Materials and Design, 2019, 180, 107956.	7.0	36
12	Infiltration studies of additive manufacture of WC with Co using binder jetting and pressureless melt method. Additive Manufacturing, 2019, 28, 333-343.	3.0	48
13	Binder jet additive manufacturing method to fabricate near net shape crack-free highly dense Fe-6.5 wt.% Si soft magnets. Heliyon, 2019, 5, e02804.	3.2	36
14	Comparison of characterization methods for differently atomized nickel-based alloy 625 powders. Powder Technology, 2018, 333, 180-192.	4.2	31
15	Powder bed binder jet 3D printing of Inconel 718: Densification, microstructural evolution and challengesâ€™. Current Opinion in Solid State and Materials Science, 2017, 21, 207-218.	11.5	153
16	Strengthening of ferrous binder jet 3D printed components through bronze infiltration. Additive Manufacturing, 2017, 15, 87-92.	3.0	41
17	A novel method combining additive manufacturing and alloy infiltration for NdFeB bonded magnet fabrication. Journal of Magnetism and Magnetic Materials, 2017, 438, 163-167.	2.3	65
18	Additive manufacturing of near-net-shape bonded magnets: Prospects and challenges. Scripta Materialia, 2017, 135, 100-104.	5.2	102

#	ARTICLE	IF	CITATIONS
19	Characterization of plastic and boron carbide additive manufactured neutron collimators. Review of Scientific Instruments, 2017, 88, 123102.	1.3	17
20	Binder Jetting: A Novel NdFeB Bonded Magnet Fabrication Process. Jom, 2016, 68, 1978-1982.	1.9	121
21	A procedure for creating actuated joints via embedding shape memory alloys in PolyJet 3D printing. Journal of Intelligent Material Systems and Structures, 2015, 26, 1498-1512.	2.5	62
22	The importance of carbon fiber to polymer additive manufacturing. Journal of Materials Research, 2014, 29, 1893-1898.	2.6	364