Corson L Cramer

List of Publications by Year
in descending order

32 papers	1,029 citations	516710 16 h-index	434195 31 g-index
35 all docs	35 docs citations	35 times ranked	742 citing authors

#	Article	IF	Citations
1	Processing and 3D printing of SiCN polymerâ€derived ceramics. International Journal of Applied Ceramic Technology, 2022, 19, 939-948.	2.1	7
2	Review of additive manufacturing and densification techniques for the net- and near net-shaping of geometrically complex silicon nitride components. Journal of the European Ceramic Society, 2022, 42, 735-743.	5.7	19
3	Zirconium-diboride silicon-carbide composites: A review. Ceramics International, 2022, 48, 7344-7361.	4.8	20
4	Additive manufacturing of ceramic materials for energy applications: Road map and opportunities. Journal of the European Ceramic Society, 2022, 42, 3049-3088.	5.7	62
5	Binder jet 3D printingâ€"Process parameters, materials, properties, modeling, and challenges. Progress in Materials Science, 2021, 119, 100707.	32.8	412
6	A Lamination Model for Pressure-Assisted Sintering of Multilayered Porous Structures. Journal of Composites Science, 2021, 5, 53.	3.0	1
7	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
8	Aluminaâ€based filters made via binder jet 3D printing of alumina powder, colloidal silica infiltration, and sintering. International Journal of Applied Ceramic Technology, 2021, 18, 1960-1968.	2.1	4
9	Recent developments in filtration media and respirator technology in response to COVID-19. MRS Bulletin, 2021, 46, 822-831.	3.5	7
10	Processing and microstructure of ZrB2â€"SiC composite prepared by reactive spark plasma sintering. Results in Materials, 2021, 11, 100217.	1.8	6
11	Accuracy of stereolithography printed alumina with digital light processing. Open Ceramics, 2021, 8, 100194.	2.0	7
12	Binder jet printed WC infiltrated with pre-made melt of WC and Co. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105137.	3.8	30
13	Reaction-bond composite synthesis of SiC-TiB2 by spark plasma sintering/field-assisted sintering technology (SPS/FAST). Journal of the European Ceramic Society, 2020, 40, 988-995.	5.7	18
14	High-Performance Titanium Oxynitride Thin Films for Electrocatalytic Water Oxidation. ACS Applied Energy Materials, 2020, 3, 8366-8374.	5.1	27
15	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
16	In-situ metal binder-phase formation to make WC-FeNi Cermets with spark plasma sintering from WC, Fe, Ni, and carbon powders. International Journal of Refractory Metals and Hard Materials, 2020, 88, 105204.	3.8	14
17	Prediction of continuous porosity gradients in ceramics using ZnO as a model material. Journal of the American Ceramic Society, 2019, 102, 587-594.	3.8	5
18	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

#	Article	IF	Citations
19	Shape retention and infiltration height in complex WC-Co parts made via binder jet of WC with subsequent Co melt infiltration. Additive Manufacturing, 2019, 29, 100828.	3.0	21
20	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
21	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
22	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
23	Highly dense, inexpensive composites via melt infiltration of Ni into WC/Fe preforms. International Journal of Refractory Metals and Hard Materials, 2019, 82, 255-258.	3.8	7
24	Effects of the addition of boron nitride nanoplate on the fracture toughness, flexural strength, and Weibull Distribution of hydroxyapatite composites prepared by spark plasma sintering. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 93, 105-117.	3.1	28
25	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
26	Techniques for Mitigating Thermal Fatigue Degradation, Controlling Efficiency, and Extending Lifetime in a ZnO Thermoelectric Using Grain Size Gradient FGMs. Journal of Electronic Materials, 2018, 47, 866-872.	2.2	9
27	Performance of Functionally Graded Thermoelectric Materials and Devices: A Review. Journal of Electronic Materials, 2018, 47, 5122-5132.	2.2	36
28	Additive manufacturing of ceramic nanopowder by direct coagulation printing. Additive Manufacturing, 2018, 23, 140-150.	3.0	11
29	Thermoelectric Properties and Morphology of Si/SiC Thin-Film Multilayers Grown by Ion Beam Sputtering. Coatings, 2018, 8, 109.	2.6	1
30	Continuous functionally graded material to improve the thermoelectric properties of ZnO. Journal of the European Ceramic Society, 2017, 37, 4693-4700.	5.7	32
31	Molybdenum oxide and molybdenum oxide-nitride back contacts for CdTe solar cells. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	2.1	11
32	Testing and modeling of Functionallyâ€graded Aluminumâ€doped Zinc Oxide using SPS and discrete powder layers of varying composition. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100483.	1.8	1