

Corson L Cramer

List of Publications by Year in descending order

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32
papers

1,029
citations

516710

16
h-index

434195

31
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35
all docs

35
docs citations

35
times ranked

742
citing authors

#	ARTICLE	IF	CITATIONS
1	Binder jet 3D printing—Process parameters, materials, properties, modeling, and challenges. <i>Progress in Materials Science</i> , 2021, 119, 100707.	32.8	412
2	Additive manufacturing of ceramic materials for energy applications: Road map and opportunities. <i>Journal of the European Ceramic Society</i> , 2022, 42, 3049-3088.	5.7	62
3	Infiltration studies of additive manufacture of WC with Co using binder jetting and pressureless melt method. <i>Additive Manufacturing</i> , 2019, 28, 333-343.	3.0	48
4	Performance of Functionally Graded Thermoelectric Materials and Devices: A Review. <i>Journal of Electronic Materials</i> , 2018, 47, 5122-5132.	2.2	36
5	Processing of complex-shaped collimators made via binder jet additive manufacturing of B4C and pressureless melt infiltration of Al. <i>Materials and Design</i> , 2019, 180, 107956.	7.0	36
6	Binder jet additive manufacturing method to fabricate near net shape crack-free highly dense Fe-6.5 wt.% Si soft magnets. <i>Heliyon</i> , 2019, 5, e02804.	3.2	36
7	Continuous functionally graded material to improve the thermoelectric properties of ZnO. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4693-4700.	5.7	32
8	Binder jet printed WC infiltrated with pre-made melt of WC and Co. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 87, 105137.	3.8	30
9	Properties of SiC-Si made via binder jet 3D printing of SiC powder, carbon addition, and silicon melt infiltration. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5467-5478.	3.8	29
10	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. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 93, 105-117.	3.1	28
11	High-Performance Titanium Oxynitride Thin Films for Electrocatalytic Water Oxidation. <i>ACS Applied Energy Materials</i> , 2020, 3, 8366-8374.	5.1	27
12	Shape retention and infiltration height in complex WC-Co parts made via binder jet of WC with subsequent Co melt infiltration. <i>Additive Manufacturing</i> , 2019, 29, 100828.	3.0	21
13	Processing and properties of SiC composites made via binder jet 3D printing and infiltration and pyrolysis of preceramic polymer. <i>International Journal of Ceramic Engineering & Science</i> , 2020, 2, 320-331.	1.2	20
14	Zirconium-diboride silicon-carbide composites: A review. <i>Ceramics International</i> , 2022, 48, 7344-7361.	4.8	20
15	Review of additive manufacturing and densification techniques for the net- and near net-shaping of geometrically complex silicon nitride components. <i>Journal of the European Ceramic Society</i> , 2022, 42, 735-743.	5.7	19
16	Reaction-bond composite synthesis of SiC-TiB ₂ by spark plasma sintering/field-assisted sintering technology (SPS/FAST). <i>Journal of the European Ceramic Society</i> , 2020, 40, 988-995.	5.7	18
17	Microstructure evolution during near-net-shape fabrication of Ni _x Al _y -TiC cermets through binder jet additive manufacturing and pressureless melt infiltration. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 84, 104985.	3.8	17
18	In-situ metal binder-phase formation to make WC-FeNi Cermets with spark plasma sintering from WC, Fe, Ni, and carbon powders. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 88, 105204.	3.8	14

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19	Molybdenum oxide and molybdenum oxide-nitride back contacts for CdTe solar cells. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, .	2.1	11
20	Additive manufacturing of ceramic nanopowder by direct coagulation printing. <i>Additive Manufacturing</i> , 2018, 23, 140-150.	3.0	11
21	Techniques for Mitigating Thermal Fatigue Degradation, Controlling Efficiency, and Extending Lifetime in a ZnO Thermoelectric Using Grain Size Gradient FGMs. <i>Journal of Electronic Materials</i> , 2018, 47, 866-872.	2.2	9
22	Lightweight TiCâ€“(Feâ€“Al) ceramicâ€“metal composites made in situ by pressureless melt infiltration. <i>Journal of Materials Science</i> , 2019, 54, 12573-12581.	3.7	7
23	Highly dense, inexpensive composites via melt infiltration of Ni into WC/Fe preforms. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 82, 255-258.	3.8	7
24	Recent developments in filtration media and respirator technology in response to COVID-19. <i>MRS Bulletin</i> , 2021, 46, 822-831.	3.5	7
25	Processing and 3D printing of SiCN polymerâ€“derived ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 939-948.	2.1	7
26	Accuracy of stereolithography printed alumina with digital light processing. <i>Open Ceramics</i> , 2021, 8, 100194.	2.0	7
27	Processing and microstructure of ZrB2â€“SiC composite prepared by reactive spark plasma sintering. <i>Results in Materials</i> , 2021, 11, 100217.	1.8	6
28	Prediction of continuous porosity gradients in ceramics using ZnO as a model material. <i>Journal of the American Ceramic Society</i> , 2019, 102, 587-594.	3.8	5
29	Aluminaâ€“based filters made via binder jet 3D printing of alumina powder, colloidal silica infiltration, and sintering. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 1960-1968.	2.1	4
30	Thermoelectric Properties and Morphology of Si/SiC Thin-Film Multilayers Grown by Ion Beam Sputtering. <i>Coatings</i> , 2018, 8, 109.	2.6	1
31	A Lamination Model for Pressure-Assisted Sintering of Multilayered Porous Structures. <i>Journal of Composites Science</i> , 2021, 5, 53.	3.0	1
32	Testing and modeling of Functionallyâ€“graded Aluminumâ€“doped Zinc Oxide using SPS and discrete powder layers of varying composition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 0, , 2100483.	1.8	1