

Wei Liu

List of Publications by Year in descending order

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42
papers

1,501
citations

361413

20
h-index

315739

38
g-index

42
all docs

42
docs citations

42
times ranked

1059
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of complex-shaped zirconia ceramic parts via a DLP- stereolithography-based 3D printing method. <i>Ceramics International</i> , 2018, 44, 3412-3416.	4.8	235
2	Effect of the particle size and the debinding process on the density of alumina ceramics fabricated by 3D printing based on stereolithography. <i>Ceramics International</i> , 2016, 42, 17290-17294.	4.8	170
3	Fabrication of dense zirconia-toughened alumina ceramics through a stereolithography-based additive manufacturing. <i>Ceramics International</i> , 2017, 43, 968-972.	4.8	157
4	Preparation of a defect-free alumina cutting tool via additive manufacturing based on stereolithography – Optimization of the drying and debinding processes. <i>Ceramics International</i> , 2016, 42, 11598-11602.	4.8	152
5	Research into the mechanical properties, sintering mechanism and microstructure evolution of Al ₂ O ₃ -ZrO ₂ composites fabricated by a stereolithography-based 3D printing method. <i>Materials Chemistry and Physics</i> , 2018, 207, 1-10.	4.0	81
6	Surface Modification Mechanism of Stearic Acid to Zirconia Powders Induced by Ball Milling for Water-Based Injection Molding. <i>Journal of the American Ceramic Society</i> , 2011, 94, 1327-1330.	3.8	52
7	Surface modification of ceramic powders by titanate coupling agent for injection molding using partially water soluble binder system. <i>Journal of the European Ceramic Society</i> , 2012, 32, 1001-1006.	5.7	48
8	PVD-CrAlN and TiAlN coated Si ₃ N ₄ ceramic cutting tools –1. Microstructure, turning performance and wear mechanism. <i>Ceramics International</i> , 2017, 43, 8999-9004.	4.8	44
9	Effect of the Y ₂ O ₃ additive concentration on the properties of a silicon nitride ceramic substrate. <i>Ceramics International</i> , 2016, 42, 18641-18647.	4.8	36
10	Ultrarobust and Biomimetic Hierarchically Macroporous Ceramic Membrane for Oil–Water Separation Templated by Emulsion-Assisted Self-Assembly Method. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35555-35562.	8.0	33
11	Fabrication of fine-grained alumina ceramics by a novel process integrating stereolithography and liquid precursor infiltration processing. <i>Ceramics International</i> , 2016, 42, 17736-17741.	4.8	32
12	3D printing of dense structural ceramic microcomponents with low cost: Tailoring the sintering kinetics and the microstructure evolution. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2257-2262.	3.8	32
13	Injection molding of surface modified powders with high solid loadings: A case for fabrication of translucent alumina ceramics. <i>Journal of the European Ceramic Society</i> , 2011, 31, 1611-1617.	5.7	30
14	Effects of different types of rare earth oxide additives on the properties of silicon nitride ceramic substrates. <i>Ceramics International</i> , 2019, 45, 12436-12442.	4.8	30
15	Surface modification of alumina powder particles through stearic acid for the fabrication of translucent alumina ceramics by injection molding. <i>Ceramics International</i> , 2016, 42, 16274-16280.	4.8	25
16	A strategy for defects healing in 3D printed ceramic compact via cold isostatic pressing: Sintering kinetic window and microstructure evolution. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2263-2271.	3.8	24
17	Novel fabrication of injection-moulded ceramic parts with large section via partially water-debinding method. <i>Journal of the European Ceramic Society</i> , 2012, 32, 2187-2191.	5.7	23
18	PVD-CrAlN and TiAlN coated Si ₃ N ₄ ceramic cutting inserts-2. High speed face milling performance and wear mechanism study. <i>Ceramics International</i> , 2017, 43, 9488-9492.	4.8	23

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19	Preparation of alumina-toughened zirconia via 3D printing and liquid precursor infiltration: manipulation of the microstructure, the mechanical properties and the low temperature aging behavior. <i>Journal of Materials Science</i> , 2019, 54, 7447-7459.	3.7	23
20	Research on the effects of surface modification of ceramic powder on cure performance during digital light processing (DLP). <i>Ceramics International</i> , 2022, 48, 3652-3658.	4.8	21
21	Recycling of waste glass as raw materials for the preparation of self-cleaning, light-weight and high-strength porous ceramics. <i>Journal of Cleaner Production</i> , 2021, 317, 128395.	9.3	20
22	Novel Strategy To Prepare Hierarchically Porous Ceramic Microspheres via a Self-Assembly Method on Tunable Superamphiphobic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45429-45436.	8.0	19
23	Effects of bias voltage on microstructure, mechanical properties, and wear mechanism of novel quaternary (Ti, Al, Zr)N coating on the surface of silicon nitride ceramic cutting tool. <i>Ceramics International</i> , 2016, 42, 17693-17697.	4.8	18
24	Effects of gas pressure on microstructure and performance of (Ti, Al, Zr)N coatings produced by physical vapor deposition. <i>Ceramics International</i> , 2016, 42, 17436-17441.	4.8	18
25	Injection molding of ultra-fine Si ₃ N ₄ powder for gas-pressure sintering. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 654-659.	4.9	15
26	Fabrication of high-performance Al ₂ O ₃ -ZrO ₂ composite by a novel approach that integrates stereolithography-based 3D printing and liquid precursor infiltration. <i>Materials Chemistry and Physics</i> , 2018, 209, 31-37.	4.0	15
27	Fabrication of translucent alumina ceramics from pre-sintered bodies infiltrated with sintering additive precursor solutions. <i>Journal of the European Ceramic Society</i> , 2012, 32, 711-715.	5.7	13
28	Powder modification mechanism, effects of binder compositions on the thermal behavior, and the mechanical properties of the ceramic injection molded system. <i>Ceramics International</i> , 2018, 44, 5646-5651.	4.8	13
29	Sintering kinetics involving densification and grain growth of 3D printed Ce-ZrO ₂ /Al ₂ O ₃ . <i>Materials Chemistry and Physics</i> , 2020, 239, 122069.	4.0	13
30	Effects of the binder compositions on the homogeneity of ceramic injection molded compacts. <i>Ceramics International</i> , 2018, 44, 3218-3225.	4.8	13
31	A strategy to obtain a high-density and high-strength zirconia ceramic via ceramic injection molding by the modification of oleic acid. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 718-725.	4.9	12
32	Effects of PVP incorporation on the properties of injection-molded high-performance ceramics with PEG-based binders. <i>Ceramics International</i> , 2018, 44, 2718-2726.	4.8	10
33	Synergistic effect of nano-silica and eco-friendly hydrogel for the cost-effective and highly efficient oil-water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 636, 128136.	4.7	9
34	Surface resistivity regulation of zirconia ceramics for anti-static purposes by novel solution infiltration method. <i>Ceramics International</i> , 2016, 42, 18503-18506.	4.8	8
35	Preparation of transparent Y ₂ O ₃ ceramic via gel casting: Realization of high solid volume via surface modification. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6414-6421.	3.8	7
36	Rapid preparation of hierarchically porous ceramic microspheres based on UV-curing-assisted molding. <i>Journal of the European Ceramic Society</i> , 2021, 41, 232-238.	5.7	7

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37	Waste recycling of coal fly ash: A novel approach to prepare hierarchically porous coal fly ash/Al ₂ O ₃ ceramic composite with high porosity and high strength templated by emulsion-assisted self-assembly. <i>Ceramics International</i> , 2022, 48, 18588-18595.	4.8	7
38	Preparation of ZrO ₂ -doped Nd ³⁺ : Y ₂ O ₃ transparent ceramic and the corresponding characteristic of luminescence. <i>Materials Chemistry and Physics</i> , 2019, 236, 121835.	4.0	4
39	Three-dimensional printing of blue-colored zirconia accessories using digital light processing-based stereolithography. <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 727-732.	2.3	3
40	The rising crack resistance curve behavior and mechanism of La ₂ O ₃ doped zirconia toughened alumina composites prepared via vat photopolymerization based 3D printing. <i>Materials Chemistry and Physics</i> , 2022, 285, 126090.	4.0	3
41	The absorption and emission properties of highly transparent ZrO ₂ doped Yb ³⁺ : Y ₂ O ₃ ceramics. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5020-5024.	3.8	2
42	pH-responsive hierarchically porous self-assembly bioinspired Al ₂ O ₃ ceramic membranes. <i>Ceramics International</i> , 2022, 48, 22246-22253.	4.8	1