Wei Liu

List of Publications by Year
in descending order

42	1,501	361413	315739
papers	citations	20 h-index	38 g-index

42	42	42	1059
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Research on the effects of surface modification of ceramic powder on cure performance during digital light processing (DLP). Ceramics International, 2022, 48, 3652-3658.	4.8	21
2	Synergistic effect of nano-silica and eco-friendly hydrogel for the cost-effective and highly efficient oil-water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 636, 128136.	4.7	9
3	Waste recycling of coal fly ash: A novel approach to prepare hierarchically porous coal fly ash/Al2O3 ceramic composite with high porosity and high strength templated by emulsion-assisted self-assembly. Ceramics International, 2022, 48, 18588-18595.	4.8	7
4	The rising crack resistance curve behavior and mechanism of La2O3 doped zirconia toughened alumina composites prepared via vat photopolymerization based 3D printing. Materials Chemistry and Physics, 2022, 285, 126090.	4.0	3
5	pH-responsive hierarchically porous self-assembly bioinspired Al2O3 ceramic membranes. Ceramics International, 2022, 48, 22246-22253.	4.8	1
6	Three-dimensional printing of blue-colored zirconia accessories using digital light processing-based stereolithography. Journal of Asian Ceramic Societies, 2021, 9, 727-732.	2.3	3
7	Rapid preparation of hierarchically porous ceramic microspheres based on UV-curing-assisted molding. Journal of the European Ceramic Society, 2021, 41, 232-238.	5.7	7
8	Recycling of waste glass as raw materials for the preparation of self-cleaning, light-weight and high-strength porous ceramics. Journal of Cleaner Production, 2021, 317, 128395.	9.3	20
9	Sintering kinetics involving densification and grain growth of 3D printed Ceâ€“ZrO2/Al2O3. Materials Chemistry and Physics, 2020, 239, 122069.	4.0	13
10	Novel Strategy To Prepare Hierarchically Porous Ceramic Microspheres via a Self-Assembly Method on Tunable Superamphiphobic Surfaces. ACS Applied Materials & Interfaces, 2020, 12, 45429-45436.	8.0	19
11	Ultrarobust and Biomimetic Hierarchically Macroporous Ceramic Membrane for Oilâ€“Water Separation Templated by Emulsion-Assisted Self-Assembly Method. ACS Applied Materials & Interfaces, 2020, 12, 35555-35562.	8.0	33
12	Preparation of ZrO2-doped Nd3+: Y2O3 transparent ceramic and the corresponding characteristic of luminescence. Materials Chemistry and Physics, 2019, 236, 121835.	4.0	4
13	Preparation of transparent Y 2 O 3 ceramic via gel casting: Realization of high solid volume via surface modification. Journal of the American Ceramic Society, 2019, 102, 6414-6421.	3.8	7
14	The absorption and emission properties of highly transparent ZrO 2 â€doped Yb 3+ : Y 2 O 3 ceramics. Journal of the American Ceramic Society, 2019, 102, 5020-5024.	3.8	2
15	Effects of different types of rare earth oxide additives on the properties of silicon nitride ceramic substrates. Ceramics International, 2019, 45, 12436-12442.	4.8	30
16	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. Journal of Materials Science, 2019, 54, 7447-7459.	3.7	23
17	A strategy for defects healing in 3D printed ceramic compact via cold isostatic pressing: Sintering kinetic window and microstructure evolution. Journal of the American Ceramic Society, 2019, 102, 2263-2271.	3.8	24
18	3D printing of dense structural ceramic microcomponents with low cost: Tailoring the sintering kinetics and the microstructure evolution. Journal of the American Ceramic Society, 2019, 102, 2257-2262.	3.8	32

#	Article	IF	Citations
19	Fabrication of high-performance Al2O3-ZrO2 composite by a novel approach that integrates stereolithography-based 3D printing and liquid precursor infiltration. Materials Chemistry and Physics, 2018, 209, 31-37.	4.0	15
20	Research into the mechanical properties, sintering mechanism and microstructure evolution of Al2O3-ZrO2 composites fabricated by a stereolithography-based 3D printing method. Materials Chemistry and Physics, 2018, 207, 1-10.	4.0	81
21	Powder modification mechanism, effects of binder compositions on the thermal behavior, and the mechanical properties of the ceramic injection molded system. Ceramics International, 2018, 44, 5646-5651.	4.8	13
22	Fabrication of complex-shaped zirconia ceramic parts via a DLP- stereolithography-based 3D printing method. Ceramics International, 2018, 44, 3412-3416.	4.8	235
23	Effects of PVP incorporation on the properties of injection-molded high-performance ceramics with PEG-based binders. Ceramics International, 2018, 44, 2718-2726.	4.8	10
24	Effects of the binder compositions on the homogeneity of ceramic injection molded compacts. Ceramics International, 2018, 44, 3218-3225.	4.8	13
25	PVD-CrAlN and TiAlN coated Si 3 N 4 ceramic cutting inserts-2. High speed face milling performance and wear mechanism study. Ceramics International, 2017, 43, 9488-9492.	4.8	23
26	A strategy to obtain a high-density and high-strength zirconia ceramic via ceramic injection molding by the modification of oleic acid. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 718-725.	4.9	12
27	PVD-CrAlN and TiAlN coated Si 3 N 4 ceramic cutting tools â€”1. Microstructure, turning performance and wear mechanism. Ceramics International, 2017, 43, 8999-9004.	4.8	44
28	Fabrication of dense zirconia-toughened alumina ceramics through a stereolithography-based additive manufacturing. Ceramics International, 2017, 43, 968-972.	4.8	157
29	Surface modification of alumina powder particles through stearic acid for the fabrication of translucent alumina ceramics by injection molding. Ceramics International, 2016, 42, 16274-16280.	4.8	25
30	Fabrication of fine-grained alumina ceramics by a novel process integrating stereolithography and liquid precursor infiltration processing. Ceramics International, 2016, 42, 17736-17741.	4.8	32
31	Effect of the Y2O3 additive concentration on the properties of a silicon nitride ceramic substrate. Ceramics International, 2016, 42, 18641-18647.	4.8	36
32	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. Ceramics International, 2016, 42, 17693-17697.	4.8	18
33	Effect of the particle size and the debinding process on the density of alumina ceramics fabricated by 3D printing based on stereolithography. Ceramics International, 2016, 42, 17290-17294.	4.8	170
34	Effects of gas pressure on microstructure and performance of (Ti, Al, Zr)N coatings produced by physical vapor deposition. Ceramics International, 2016, 42, 17436-17441.	4.8	18
35	Surface resistivity regulation of zirconia ceramics for anti-static purposes by novel solution infiltration method. Ceramics International, 2016, 42, 18503-18506.	4.8	8
36	Preparation of a defect-free alumina cutting tool via additive manufacturing based on stereolithography â€“ Optimization of the drying and debinding processes. Ceramics International, 2016, 42, 11598-11602.	4.8	152

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37	Injection molding of ultra-fine Si3N4 powder for gas-pressure sintering. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 654-659.	4.9	15
38	Fabrication of translucent alumina ceramics from pre-sintered bodies infiltrated with sintering additive precursor solutions. Journal of the European Ceramic Society, 2012, 32, 711-715.	5.7	13
39	Surface modification of ceramic powders by titanate coupling agent for injection molding using partially water soluble binder system. Journal of the European Ceramic Society, 2012, 32, 1001-1006.	5.7	48
40	Novel fabrication of injection-moulded ceramic parts with large section via partially water-debinding method. Journal of the European Ceramic Society, 2012, 32, 2187-2191.	5.7	23
41	Surface Modification Mechanism of Stearic Acid to Zirconia Powders Induced by Ball Milling for Water-Based Injection Molding. Journal of the American Ceramic Society, 2011, 94, 1327-1330.	3.8	52
42	Injection molding of surface modified powders with high solid loadings: A case for fabrication of translucent alumina ceramics. Journal of the European Ceramic Society, 2011, 31, 1611-1617.	5.7	30