Bin Liang

List of Publications by Year in descending order

26 papers	407 citations	840776 11 h-index	752698 20 g-index
26 all docs	26 docs citations	26 times ranked	166 citing authors

#	Article	IF	Citations
1	Metastable Si-B-C-N ceramics and their matrix composites developed by inorganic route based on mechanical alloying: Fabrication, microstructures, properties and their relevant basic scientific issues. Progress in Materials Science, 2018, 98, 1-67.	32.8	82
2	Ablation behavior and mechanism of SiCf/Cf/SiBCN ceramic composites with improved thermal shock resistance under oxyacetylene combustion flow. Ceramics International, 2015, 41, 8868-8877.	4.8	47
3	Amorphous silicoboron carbonitride monoliths resistant to flowing air up to 1800 Â°C. Corrosion Science, 2016, 109, 162-173.	6.6	41
4	Preparation, microstructures, mechanical properties and oxidation resistance of SiBCN/ZrB2â€“ZrN ceramics by reactive hot pressing. Journal of the European Ceramic Society, 2015, 35, 4399-4410.	5.7	38
5	Highly Dense Amorphous Si₂BC₃N Monoliths with Excellent Mechanical Properties Prepared by High Pressure Sintering. Journal of the American Ceramic Society, 2015, 98, 3782-3787.	3.8	24
6	Thermal ablation behavior of SiBCN-Zr composites prepared by reactive spark plasma sintering. Ceramics International, 2017, 43, 7978-7983.	4.8	24
7	Effect of the BN content on the thermal shock resistance and properties of BN/SiO₂ composites fabricated from mechanically alloyed SiBON powders. RSC Advances, 2017, 7, 48994-49003.	3.6	18
8	Crystallization Behavior of Amorphous Si₂BC₃N Ceramic Monolith Subjected to High Pressure. Journal of the American Ceramic Society, 2015, 98, 3788-3796.	3.8	16
9	Microstructures, mechanical properties and oxidation resistance of SiBCN ceramics with the addition of MgO, ZrO₂ and SiO₂ (MZS) as sintering additives. RSC Advances, 2015, 5, 52194-52205.	3.6	14
10	Ablation properties and mechanisms of BN-coated Cf-reinforced SiBCNZr ceramic composites under an oxyacetylene combustion torch. Ceramics International, 2021, 47, 15533-15541.	4.8	14
11	Organic salt-assisted liquid-phase shear exfoliation of expanded graphite into graphene nanosheets. Journal of Materiomics, 2021, 7, 1181-1189.	5.7	13
12	Structure evolution, amorphization and nucleation studies of carbon-lean to -rich SiBCN powder blends prepared by mechanical alloying. RSC Advances, 2016, 6, 48255-48271.	3.6	11
13	High temperature oxidation kinetics of amorphous silicoboron carbonitride monoliths and silica scale growth mechanisms determined by SIMS. Corrosion Science, 2017, 122, 100-107.	6.6	11
14	Progress of a novel amorphous and nanostructured Si-B-C-N ceramic and its matrix composites prepared by an inorganic processing route. Chinese Science Bulletin, 2015, 60, 236-245.	0.7	11
15	A novel in situ synthesis of SiBCN-Zr composites prepared by a solâ€“gel process and spark plasma sintering. Dalton Transactions, 2016, 45, 12739-12744.	3.3	9
16	Dense, pure SiC monoliths with excellent oxidation resistance sintered at low temperatures and high pressures. Ceramics International, 2015, 41, 15227-15230.	4.8	6
17	Si-B-C-N monoliths with LaB6-induced well-developed BN(C) flakes. Materials Letters, 2017, 187, 36-39.	2.6	5
18	Microstructural evolution of amorphous Si 2 BC 3 N nanopowders upon heating at high temperatures: High pressures reverse the nucleation order of SiC and BN (C). Journal of the American Ceramic Society, 2018, 101, 4321-4330.	3.8	5

#	Article	IF	Citations
19	Boron-dependent self-healing behavior and mechanical properties of polymer-derived amorphous SiBCN monoliths. Ceramics International, 2022, 48, 25326-25334.	4.8	5
20	Spark plasma sintering and improved fracture toughness of silicoboron carbonitride ceramics with the integration of 2D MXene. Ceramics International, 2021, 47, 27730-27735.	4.8	4
21	Synthesis mechanism of amorphous Si 2 BC 3 N powders: Structural evolution of 2Siâ€BNâ€3C mixtures during mechanical alloying. Journal of the American Ceramic Society, 2020, 103, 4189-4202.	3.8	3
22	Crystallinity dependence of high-temperature oxidation of silicoboron carbonitride monoliths. Corrosion Science, 2021, 187, 109473.	6.6	2
23	Improved efficiency of liquid-phase shear exfoliation of expanded graphite with mica plates as bifunctional additives. Journal of Materials Chemistry A, 2021, 9, 27586-27595.	10.3	2
24	Exploration of the form factors of turbulence kinetic energy transfer for shear exfoliation of graphene. Nanotechnology, 2021, 32, 265601.	2.6	1
25	A pinning effect for the enhanced oxidation resistance at 1600ÂÂ°C of silicoboron carbonitride ceramics with the addition of MXene. Corrosion Science, 2022, 196, 110041.	6.6	1
26	Nickel-Cobalt Sulfide Nonwoven Cloth with UltraHigh Areal Capacitance for Flexible Supercapacitors. , 2019, , .		0