

Bin Liang

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	A pinning effect for the enhanced oxidation resistance at 1600°C of silicoboron carbonitride ceramics with the addition of MXene. <i>Corrosion Science</i> , 2022, 196, 110041.	6.6	1
2	Boron-dependent self-healing behavior and mechanical properties of polymer-derived amorphous SiBCN monoliths. <i>Ceramics International</i> , 2022, 48, 25326-25334.	4.8	5
3	Organic salt-assisted liquid-phase shear exfoliation of expanded graphite into graphene nanosheets. <i>Journal of Materiomics</i> , 2021, 7, 1181-1189.	5.7	13
4	Exploration of the form factors of turbulence kinetic energy transfer for shear exfoliation of graphene. <i>Nanotechnology</i> , 2021, 32, 265601.	2.6	1
5	Ablation properties and mechanisms of BN-coated Cf-reinforced SiBCNZr ceramic composites under an oxyacetylene combustion torch. <i>Ceramics International</i> , 2021, 47, 15533-15541.	4.8	14
6	Crystallinity dependence of high-temperature oxidation of silicoboron carbonitride monoliths. <i>Corrosion Science</i> , 2021, 187, 109473.	6.6	2
7	Spark plasma sintering and improved fracture toughness of silicoboron carbonitride ceramics with the integration of 2D MXene. <i>Ceramics International</i> , 2021, 47, 27730-27735.	4.8	4
8	Improved efficiency of liquid-phase shear exfoliation of expanded graphite with mica plates as bifunctional additives. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27586-27595.	10.3	2
9	Synthesis mechanism of amorphous Si ₂ BC ₃ N powders: Structural evolution of 2Siâ€³BNâ€³C mixtures during mechanical alloying. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4189-4202.	3.8	3
10	Nickel-Cobalt Sulfide Nonwoven Cloth with UltraHigh Areal Capacitance for Flexible Supercapacitors. , 2019, , .		0
11	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). <i>Journal of the American Ceramic Society</i> , 2018, 101, 4321-4330.	3.8	5
12	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. <i>Progress in Materials Science</i> , 2018, 98, 1-67.	32.8	82
13	High temperature oxidation kinetics of amorphous silicoboron carbonitride monoliths and silica scale growth mechanisms determined by SIMS. <i>Corrosion Science</i> , 2017, 122, 100-107.	6.6	11
14	Thermal ablation behavior of SiBCN-Zr composites prepared by reactive spark plasma sintering. <i>Ceramics International</i> , 2017, 43, 7978-7983.	4.8	24
15	Effect of the BN content on the thermal shock resistance and properties of BN/SiO ₂ composites fabricated from mechanically alloyed SiBON powders. <i>RSC Advances</i> , 2017, 7, 48994-49003.	3.6	18
16	Si-B-C-N monoliths with LaB ₆ -induced well-developed BN(C) flakes. <i>Materials Letters</i> , 2017, 187, 36-39.	2.6	5
17	A novel in situ synthesis of SiBCN-Zr composites prepared by a solâ€³gel process and spark plasma sintering. <i>Dalton Transactions</i> , 2016, 45, 12739-12744.	3.3	9
18	Structure evolution, amorphization and nucleation studies of carbon-lean to -rich SiBCN powder blends prepared by mechanical alloying. <i>RSC Advances</i> , 2016, 6, 48255-48271.	3.6	11

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19	Amorphous silicoboron carbonitride monoliths resistant to flowing air up to 1800 Å°C. Corrosion Science, 2016, 109, 162-173.	6.6	41
20	Highly Dense Amorphous Si ₂ BC ₃ N Monoliths with Excellent Mechanical Properties Prepared by High Pressure Sintering. Journal of the American Ceramic Society, 2015, 98, 3782-3787.	3.8	24
21	Crystallization Behavior of Amorphous Si ₂ BC ₃ N Ceramic Monolith Subjected to High Pressure. Journal of the American Ceramic Society, 2015, 98, 3788-3796.	3.8	16
22	Microstructures, mechanical properties and oxidation resistance of SiBCN ceramics with the addition of MgO, ZrO ₂ and SiO ₂ (MZS) as sintering additives. RSC Advances, 2015, 5, 52194-52205.	3.6	14
23	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
24	Preparation, microstructures, mechanical properties and oxidation resistance of SiBCN/ZrB ₂ â€“ZrN ceramics by reactive hot pressing. Journal of the European Ceramic Society, 2015, 35, 4399-4410.	5.7	38
25	Dense, pure SiC monoliths with excellent oxidation resistance sintered at low temperatures and high pressures. Ceramics International, 2015, 41, 15227-15230.	4.8	6
26	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