

# De-Chang Jia

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1299758/publications.pdf>

Version: 2024-02-01

181  
papers

5,542  
citations

76326

40  
h-index

114465

63  
g-index

183  
all docs

183  
docs citations

183  
times ranked

3795  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Si/Al ratio on the structure and properties of metakaolin based geopolymer. <i>Ceramics International</i> , 2016, 42, 14416-14422.	4.8	240
2	Effects of high-temperature heat treatment on the mechanical properties of unidirectional carbon fiber reinforced geopolymer composites. <i>Ceramics International</i> , 2010, 36, 1447-1453.	4.8	209
3	Effects of fiber length on mechanical properties and fracture behavior of short carbon fiber reinforced geopolymer matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 497, 181-185.	5.6	181
4	3D printing strong and conductive geo-polymer nanocomposite structures modified by graphene oxide. <i>Carbon</i> , 2017, 117, 421-426.	10.3	154
5	Growth Mechanism of In Situ TiB Whiskers in Spark Plasma Sintered TiB/Ti Metal Matrix Composites. <i>Crystal Growth and Design</i> , 2006, 6, 1626-1630.	3.0	132
6	Two-Dimensional van der Waals Materials with Aligned In-Plane Polarization and Large Piezoelectric Effect for Self-Powered Piezoelectric Sensors. <i>Nano Letters</i> , 2019, 19, 5410-5416.	9.1	132
7	Preparation and anisotropic properties of textured structural ceramics: A review. <i>Journal of Advanced Ceramics</i> , 2019, 8, 289-332.	17.4	107
8	Porous geopolymer composites: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 150, 106629.	7.6	106
9	On the formation mechanisms and properties of MAX phases: A review. <i>Journal of the European Ceramic Society</i> , 2021, 41, 3851-3878.	5.7	97
10	Microstructural and mechanical characterization of fly ash cenosphere/metakaolin-based geopolymeric composites. <i>Ceramics International</i> , 2011, 37, 1661-1666.	4.8	88
11	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
12	Thermal evolution and crystallization kinetics of potassium-based geopolymer. <i>Ceramics International</i> , 2011, 37, 59-63.	4.8	81
13	Progress of a novel non-oxide Si-B-C-N ceramic and its matrix composites. <i>Journal of Advanced Ceramics</i> , 2012, 1, 157-178.	17.4	81
14	Effects of fibre content on mechanical properties and fracture behaviour of short carbon fibre reinforced geopolymer matrix composites. <i>Bulletin of Materials Science</i> , 2009, 32, 77-81.	1.7	80
15	Effect of curing temperature and SiO <sub>2</sub> /K <sub>2</sub> O molar ratio on the performance of metakaolin-based geopolymers. <i>Ceramics International</i> , 2016, 42, 16184-16190.	4.8	78
16	In situ crack growth observation and fracture behavior of short carbon fiber reinforced geopolymer matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2404-2407.	5.6	76
17	Synergistic Effects of Surface Chemistry and Topologic Structure from Modified Microarc Oxidation Coatings on Ti Implants for Improving Osseointegration. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8932-8941.	8.0	74
18	Effect of cesium substitution on the thermal evolution and ceramics formation of potassium-based geopolymer. <i>Ceramics International</i> , 2010, 36, 2395-2400.	4.8	71

#	ARTICLE	IF	CITATIONS
19	A green and low-cost hollow gangue microsphere/geopolymer adsorbent for the effective removal of heavy metals from wastewaters. <i>Journal of Environmental Management</i> , 2019, 246, 174-183.	7.8	66
20	In situ fabrication and characterization of graphene/geopolymer composites. <i>Ceramics International</i> , 2015, 41, 11242-11250.	4.8	65
21	Microstructures and properties of SiB0.5C1.5N0.5 ceramics consolidated by mechanical alloying and hot pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 489, 187-192.	5.6	64
22	Effect of BN content on microstructures, mechanical and dielectric properties of porous BN/Si3N4 composite ceramics prepared by gel casting. <i>Ceramics International</i> , 2013, 39, 4231-4237.	4.8	64
23	Microstructure and integrity of leucite ceramic derived from potassium-based geopolymer precursor. <i>Journal of the European Ceramic Society</i> , 2013, 33, 689-698.	5.7	64
24	Synthesis of high-purity, isotropic or textured Cr <sub>2</sub> AlC bulk ceramics by spark plasma sintering of pressure-less sintered powders. <i>Journal of the European Ceramic Society</i> , 2015, 35, 1393-1400.	5.7	64
25	Effect of fiber content on the microstructure and mechanical properties of carbon fiber felt reinforced geopolymer composites. <i>Ceramics International</i> , 2016, 42, 7837-7843.	4.8	63
26	Effect of reduced graphene oxide content on the microstructure and mechanical properties of graphene-geopolymer nanocomposites. <i>Ceramics International</i> , 2016, 42, 752-758.	4.8	57
27	Green synthesis of high porosity waste gangue microsphere/geopolymer composite foams via hydrogen peroxide modification. <i>Journal of Cleaner Production</i> , 2019, 227, 483-494.	9.3	57
28	A self-adjusting PTFE/TiO <sub>2</sub> hydrophobic double-layer coating for corrosion resistance and electrical insulation. <i>Chemical Engineering Journal</i> , 2020, 402, 126116.	12.7	54
29	Principles, design, structure and properties of ceramics for microwave absorption or transmission at high-temperatures. <i>International Materials Reviews</i> , 2022, 67, 266-297.	19.3	54
30	Microstructural features and properties of the nano-crystalline SiC/BN(C) composite ceramic prepared from the mechanically alloyed SiBCN powder. <i>Journal of Alloys and Compounds</i> , 2012, 537, 346-356.	5.5	53
31	Robust Inorganic Daytime Radiative Cooling Coating Based on a Phosphate Geopolymer. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 54963-54971.	8.0	53
32	Interplay between storage temperature, medium and leaching kinetics of hazardous wastes in Metakaolin-based geopolymer. <i>Journal of Hazardous Materials</i> , 2020, 384, 121377.	12.4	51
33	Ablation mechanism and properties of SiCf/SiBCN ceramic composites under an oxyacetylene torch environment. <i>Corrosion Science</i> , 2014, 82, 101-107.	6.6	49
34	Direct ink writing of continuous SiO <sub>2</sub> fiber reinforced wave-transparent ceramics. <i>Journal of Advanced Ceramics</i> , 2020, 9, 403-412.	17.4	48
35	Polymer-Derived Lightweight SiBCN Ceramic Nanofibers with High Microwave Absorption Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34889-34898.	8.0	48
36	Ablation behavior and mechanism of SiCf/Cf/SiBCN ceramic composites with improved thermal shock resistance under oxyacetylene combustion flow. <i>Ceramics International</i> , 2015, 41, 8868-8877.	4.8	47

#	ARTICLE	IF	CITATIONS
37	Thermal-mechanical properties of short carbon fiber reinforced geopolymer matrix composites subjected to thermal load. Central South University, 2009, 16, 881-886.	0.5	43
38	Diffusion bonding of ZrB <sub>2</sub> /SiC/Nb with in situ synthesized TiB whiskers array. Journal of the European Ceramic Society, 2012, 32, 4447-4454.	5.7	43
39	SiC fiber reinforced geopolymer composites, part 1: Short SiC fiber. Ceramics International, 2016, 42, 5345-5352.	4.8	43
40	Safe trapping of cesium into doping-enhanced pollucite structure by geopolymer precursor technique. Journal of Hazardous Materials, 2019, 367, 577-588.	12.4	43
41	In situ processing of MWCNTs/leucite composites through geopolymer precursor. Journal of the European Ceramic Society, 2017, 37, 2219-2226.	5.7	41
42	Biologically Inspired Scalable-Manufactured Dual-layer Coating with a Hierarchical Micropattern for Highly Efficient Passive Radiative Cooling and Robust Superhydrophobicity. ACS Applied Materials & Interfaces, 2021, 13, 21888-21897.	8.0	41
43	Improvement of high-temperature mechanical properties of heat treated Cf/geopolymer composites by Sol-SiO <sub>2</sub> impregnation. Journal of the European Ceramic Society, 2010, 30, 3053-3061.	5.7	40
44	Ablation behavior of graphene reinforced SiBCN ceramics in an oxyacetylene combustion flame. Corrosion Science, 2015, 100, 85-100.	6.6	40
45	The effect of applied voltages on the structure, apatite-inducing ability and antibacterial ability of micro arc oxidation coating formed on titanium surface. Bioactive Materials, 2018, 3, 426-433.	15.6	40
46	Low-temperature sintered pollucite ceramic from geopolymer precursor using synthetic metakaolin. Journal of Materials Science, 2013, 48, 1812-1818.	3.7	39
47	Mechanical, dielectric and thermal properties of porous boron nitride/silicon oxynitride ceramic composites prepared by pressureless sintering. Ceramics International, 2017, 43, 8230-8235.	4.8	39
48	Scalable-Manufactured Superhydrophobic Multilayer Nanocomposite Coating with Mechanochemical Robustness and High-Temperature Endurance. ACS Applied Materials & Interfaces, 2020, 12, 35502-35512.	8.0	39
49	Preparation, microstructures, mechanical properties and oxidation resistance of SiBCN/ZrB <sub>2</sub> /ZrN ceramics by reactive hot pressing. Journal of the European Ceramic Society, 2015, 35, 4399-4410.	5.7	38
50	A facile approach to construct BiOI/Bi <sub>5</sub> O <sub>7</sub> I composites with heterostructures: efficient charge separation and enhanced photocatalytic activity. RSC Advances, 2015, 5, 74174-74179.	3.6	38
51	SiBCN-reduced graphene oxide (rGO) ceramic composites derived from single-source-precursor with enhanced and tunable microwave absorption performance. Carbon, 2021, 179, 180-189.	10.3	36
52	Physical and surface characteristics of the mechanically alloyed SiBCN powder. Ceramics International, 2012, 38, 6399-6404.	4.8	35
53	Fabrication and characterization of amorphous SiBCN powders. Ceramics International, 2007, 33, 1573-1577.	4.8	34
54	Monoclinic-celsian ceramics formation: Through thermal treatment of ion-exchanged 3D printing geopolymer precursor. Journal of the European Ceramic Society, 2019, 39, 563-573.	5.7	34

#	ARTICLE	IF	CITATIONS
55	Synthesis and structural evolution of dual-boron-source-modified polysilazane derived SiBCN ceramics. <i>New Journal of Chemistry</i> , 2016, 40, 7034-7042.	2.8	33
56	SiC fiber reinforced geopolymer composites, part 2: Continuous SiC fiber. <i>Ceramics International</i> , 2016, 42, 12239-12245.	4.8	33
57	Effects of boron addition on the high temperature oxidation resistance of dense sSiBCN monoliths at 1500 Å°C. <i>Corrosion Science</i> , 2017, 126, 10-25.	6.6	33
58	Effects of graphite on the mechanical and microwave absorption properties of geopolymer based composites. <i>Ceramics International</i> , 2017, 43, 2325-2332.	4.8	33
59	Effects of in situ amorphous graphite coating on ablation resistance of SiC fiber reinforced SiBCN ceramics in an oxyacetylene flame. <i>Corrosion Science</i> , 2016, 113, 31-45.	6.6	32
60	Microstructure, oxidation and thermal shock resistance of graphene reinforced SiBCN ceramics. <i>Ceramics International</i> , 2016, 42, 4429-4444.	4.8	32
61	Processing and characterization of SiB <sub>0.5</sub> C <sub>1.5</sub> N <sub>0.5</sub> produced by mechanical alloying and subsequent spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 488, 241-246.	5.6	31
62	Characterization of porous silicon nitride/silicon oxynitride composite ceramics produced by sol infiltration. <i>Materials Chemistry and Physics</i> , 2010, 124, 97-101.	4.0	31
63	Effect of Si/C ratio and their content on the microstructure and properties of Siâ€“Bâ€“Câ€“N Ceramics prepared by spark plasma sintering techniques. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1944-1948.	5.6	30
64	High-temperature oxidation behavior of dense SiBCN monoliths: Carbon-content dependent oxidation structure, kinetics and mechanisms. <i>Corrosion Science</i> , 2017, 124, 103-120.	6.6	30
65	Microstructure and thermal stabilities in various atmospheres of SiB <sub>0.5</sub> C <sub>1.5</sub> N <sub>0.5</sub> nano-sized powders fabricated by mechanical alloying technique. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 326-333.	3.1	29
66	Synthesis of novel lowâ€“cost porous gangue microsphere/geopolymer composites and their adsorption properties for dyes. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 1602-1614.	2.1	29
67	Hydrothermal transformation of geopolymers to bulk zeolite structures for efficient hazardous elements adsorption. <i>Science of the Total Environment</i> , 2021, 767, 144973.	8.0	29
68	Crystallization and microstructural evolution process from the mechanically alloyed amorphous SiBCN powder to the hot-pressed nano SiC/BN(C) ceramic. <i>Journal of Materials Science</i> , 2012, 47, 7291-7304.	3.7	28
69	Microstructure and mechanical properties of SiCf/SiBCN ceramic matrix composites. <i>Journal of Advanced Ceramics</i> , 2015, 4, 31-38.	17.4	28
70	Microstructural evolution and mechanical properties of in situ nano Ta <sub>4</sub> HfC <sub>5</sub> reinforced SiBCN composite ceramics. <i>Journal of Advanced Ceramics</i> , 2020, 9, 739-748.	17.4	28
71	Influence of ball milling parameters on the structure of the mechanically alloyed SiBCN powder. <i>Ceramics International</i> , 2013, 39, 1963-1969.	4.8	27
72	<i>In Situ</i> Processing of Graphene/Leucite Nanocomposite Through Graphene Oxide/Geopolymer. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1164-1173.	3.8	27

#	ARTICLE	IF	CITATIONS
73	Thermal properties and thermal shock resistance of BAS-BN composite ceramics. <i>Ceramics International</i> , 2019, 45, 8181-8187.	4.8	27
74	Intrinsic Dipole Coupling in 2D van der Waals Ferroelectrics for Gate-Controlled Switchable Rectifier. <i>Advanced Electronic Materials</i> , 2020, 6, 1900975.	5.1	27
75	Celsian formation from barium-exchanged geopolymer precursor: Thermal evolution. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4179-4185.	5.7	25
76	Incorporation of BN-coated carbon fibers into ZrB <sub>2</sub> /SiBCN ceramic composites and their ablation behavior. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1078-1085.	5.7	25
77	Highly Dense Amorphous Si <sub>2</sub> BC <sub>3</sub> N Monoliths with Excellent Mechanical Properties Prepared by High Pressure Sintering. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3782-3787.	3.8	24
78	Crystallization kinetics and microstructure evolution of reduced graphene oxide/geopolymer composites. <i>Journal of the European Ceramic Society</i> , 2016, 36, 2601-2609.	5.7	24
79	Effects of high-temperature heat treatment on the microstructure and mechanical performance of hybrid Cf-SiCf-(Al <sub>2</sub> O <sub>3</sub> p) reinforced geopolymer composites. <i>Composites Part B: Engineering</i> , 2017, 114, 289-298.	12.0	24
80	Microarc oxidation coating covered Ti implants with micro-scale gouges formed by a multi-step treatment for improving osseointegration. <i>Materials Science and Engineering C</i> , 2017, 76, 908-917.	7.3	24
81	Immobilization behavior of Sr in geopolymer and its ceramic product. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1372-1384.	3.8	24
82	MC3T3-E1 cell response of amorphous phase/TiO <sub>2</sub> nanocrystal composite coating prepared by microarc oxidation on titanium. <i>Materials Science and Engineering C</i> , 2014, 39, 186-195.	7.3	23
83	Effects of treatment temperature on the reduction of GO under alkaline solution during the preparation of graphene/geopolymer composites. <i>Ceramics International</i> , 2016, 42, 18181-18188.	4.8	23
84	3D Printing Graphene Oxide Soft Robotics. <i>ACS Nano</i> , 2022, 16, 3664-3673.	14.6	23
85	Sintering Behavior of Gehlenite. Part I: Self-Forming, Macro-/Mesoporous Gehlenite?Pore-Forming Mechanism, Microstructure, Mechanical, and Physical Properties. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1760-1773.	3.8	22
86	Synthesis, piezoelectric property and domain behaviour of the vertically aligned K <sub>1-x</sub> Na <sub>x</sub> NbO <sub>3</sub> nanowire with a morphotropic phase boundary. <i>Journal of Materials Chemistry C</i> , 2017, 5, 747-753.	5.5	22
87	Solvents adjusted pure phase CoCO <sub>3</sub> as anodes for high cycle stability. <i>Journal of Advanced Ceramics</i> , 2021, 10, 509-519.	17.4	22
88	B <sub>2</sub> O <sub>3</sub> -assisted low-temperature crystallization of pollucite structures and their potential applications in Cs <sup>+</sup> immobilization. <i>Journal of Nuclear Materials</i> , 2020, 540, 152314.	2.7	21
89	Influence of sintering pressure on the crystallization and mechanical properties of BN-MAS composite ceramics. <i>Journal of Materials Science</i> , 2016, 51, 2292-2298.	3.7	20
90	In-situ preparation of fully stabilized graphene/cubic-leucite composite through graphene oxide/geopolymer. <i>Materials and Design</i> , 2016, 101, 301-308.	7.0	19

#	ARTICLE	IF	CITATIONS
91	Effects of graphene oxide on the geopolymerization mechanism determined by quenching the reaction at intermediate states. RSC Advances, 2017, 7, 13498-13508.	3.6	19
92	High-temperature oxidation resistance of dense amorphous boron-rich SiBCN monoliths. Corrosion Science, 2019, 157, 312-323.	6.6	19
93	Enhanced mechanical properties and thermal shock resistance of Si <sub>2</sub> BC <sub>3</sub> N ceramics with SiC coated MWCNTs. Journal of Advanced Ceramics, 2019, 8, 121-132.	17.4	19
94	Enhanced ablation resistance of HfB <sub>2</sub> -HfC/SiBCN ceramics under an oxyacetylene torch environment. Corrosion Science, 2021, 187, 109509.	6.6	19
95	Low Optical Writing Energy Multibit Optoelectronic Memory Based on SnS <sub>2</sub> /hBN/Graphene Heterostructure. Small, 2021, 17, e2104459.	10.0	19
96	One-step fabrication of double-layer nanocomposite coating by plasma electrolytic oxidation with particle addition. Applied Surface Science, 2022, 592, 153043.	6.1	19
97	Effect of the BN content on the thermal shock resistance and properties of BN/SiO <sub>2</sub> composites fabricated from mechanically alloyed SiBON powders. RSC Advances, 2017, 7, 48994-49003.	3.6	18
98	Crystallisation process of Bi <sub>5</sub> Ti <sub>3</sub> FeO <sub>15</sub> multiferroic nanoparticles synthesised by a sol-gel method. Journal of Sol-Gel Science and Technology, 2018, 85, 132-139.	2.4	18
99	The effect of NaOH concentration on the steam-hydrothermally treated bioactive microarc oxidation coatings containing Ca, P, Si and Na on pure Ti surface. Materials Science and Engineering C, 2015, 49, 669-680.	7.3	17
100	Crystallization Behavior of Amorphous Si <sub>2</sub> BC <sub>3</sub> N Ceramic Monolith Subjected to High Pressure. Journal of the American Ceramic Society, 2015, 98, 3788-3796.	3.8	16
101	Conformal coating containing Ca, P, Si and Na with double-level porous surface structure on titanium formed by a three-step microarc oxidation. RSC Advances, 2015, 5, 28908-28920.	3.6	16
102	Preparation and in-situ high-temperature mechanical properties of Cf-SiCf reinforced geopolymer composites. Ceramics International, 2017, 43, 549-555.	4.8	16
103	Synthesis and characterization of ferroelectric SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> nanotubes arrays. Journal of Sol-Gel Science and Technology, 2009, 52, 120-123.	2.4	15
104	Effect of magnesium aluminum silicate glass on the thermal shock resistance of BN matrix composite ceramics. Journal of the American Ceramic Society, 2017, 100, 2669-2678.	3.8	15
105	Microwave-dielectric and magnetic properties of Ta-doped BiFeO <sub>3</sub> nanopowders. Philosophical Magazine Letters, 2009, 89, 701-710.	1.2	14
106	Influence of residual stress on magnetoelectric coupling of bilayered CoFe <sub>2</sub> O <sub>4</sub> /PMN-PT thin films. Journal of Materials Chemistry, 2011, 21, 10738.	6.7	14
107	Microstructures, mechanical properties and oxidation resistance of SiBCN ceramics with the addition of MgO, ZrO <sub>2</sub> and SiO <sub>2</sub> (MZS) as sintering additives. RSC Advances, 2015, 5, 52194-52205.	3.6	14
108	Boron-dependent microstructural evolution, thermal stability, and crystallization of mechanical alloying derived SiBCN. Journal of the American Ceramic Society, 2018, 101, 3205-3221.	3.8	14

#	ARTICLE	IF	CITATIONS
109	Anisotropic properties of textured h-BN matrix ceramics prepared using 3Y <sub>2</sub> O <sub>3</sub> -5Al <sub>2</sub> O <sub>3</sub> (-4MgO) as sintering additives. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1788-1795.	5.7	14
110	Co-growing design of super-repellent dual-layer coating for multiple heat dissipation improvement. <i>Chemical Engineering Journal</i> , 2022, 427, 131701.	12.7	14
111	First-principles study of the anisotropic thermal expansion and thermal transport properties in h-BN. <i>Science China Materials</i> , 2021, 64, 953-963.	6.3	14
112	Electrochemical investigation of silicon/carbon composite as anode material for lithium ion batteries. <i>Journal of Materials Science</i> , 2008, 43, 3149-3152.	3.7	13
113	Densification, microstructural evolution and mechanical properties of Si-B-C-N monoliths with LaB <sub>6</sub> addition. <i>Journal of Alloys and Compounds</i> , 2017, 696, 1090-1095.	5.5	13
114	A comparative study on high temperature oxidation behavior of SiC, SiC-BN and SiBCN monoliths. <i>Corrosion Science</i> , 2021, 192, 109855.	6.6	13
115	Interface evolution of the Cf/leucite composites derived from Cf/geopolymer composites. <i>Ceramics International</i> , 2013, 39, 1203-1208.	4.8	12
116	Titania nanotube/nano-brushite composited bioactive coating with micro/nanotopography on titanium formed by anodic oxidation and hydrothermal treatment. <i>Ceramics International</i> , 2015, 41, 13115-13125.	4.8	12
117	Synthesis and mechanical properties of lightweight hybrid geopolymer foams reinforced with carbon nanotubes. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 2335-2345.	2.1	12
118	Crystallization Behavior and Multiferroic Properties of Bi <sub>3.15</sub> Nd <sub>0.85</sub> Ti <sub>3</sub> O <sub>12</sub> /CoFe <sub>2</sub> O <sub>4</sub> Powders Synthesized by Sol-Gel Method. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2334-2340.	3.8	11
119	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
120	Mechanism of superior luminescent and high-efficiency photocatalytic properties of Eu-doped calcium aluminate by low-cost self-propagating combustion synthesis technique. <i>Scientific Reports</i> , 2017, 7, 2906.	3.3	11
121	High voltage resistance ceramic coating fabricated on titanium alloy for insulation shielding application. <i>Ceramics International</i> , 2019, 45, 1909-1917.	4.8	11
122	Electrospinning of pure polymer-derived SiBCN nanofibers with high yield. <i>Ceramics International</i> , 2021, 47, 10958-10964.	4.8	11
123	Progress of a novel amorphous and nanostructured Si-B-C-N ceramic and its matrix composites prepared by an inorganic processing route. <i>Chinese Science Bulletin</i> , 2015, 60, 236-245.	0.7	11
124	Novel geopolymer based composites reinforced with stainless steel mesh and chromium powder. <i>Construction and Building Materials</i> , 2017, 150, 89-94.	7.2	10
125	Rapid Fabrication, Microstructure, and in Vitro and in Vivo Investigations of a High-Performance Multilayer Coating with External, Flexible, and Silicon-Doped Hydroxyapatite Nanorods on Titanium. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4244-4262.	5.2	10
126	Processing and mechanical performance of 3D Cf/SiCN composites prepared by polymer impregnation and pyrolysis. <i>Ceramics International</i> , 2019, 45, 17344-17353.	4.8	10



#	ARTICLE	IF	CITATIONS
127	Fabrication of Si <sub>2</sub> N <sub>2</sub> O Ceramic Foam by Combination of Direct Ink Writing and Biological Foaming Techniques. <i>Advanced Engineering Materials</i> , 2020, 22, 1901541.	3.5	10
128	From bulk to porous structures: Tailoring monoclinic SrAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> ceramic by geopolymer precursor technique. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4957-4968.	3.8	10
129	Engineering the Optoelectronic Properties of 2D Hexagonal Boron Nitride Monolayer Films by Sulfur Substitutional Doping. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 16453-16461.	8.0	10
130	H <sub>2</sub> Ti <sub>5</sub> O <sub>11</sub> ·H <sub>2</sub> O nanorod arrays formed on a Ti surface via a hybrid technique of microarc oxidation and chemical treatment. <i>CrystEngComm</i> , 2015, 17, 2705-2717.	2.6	9
131	Effects of Li Substitution on the Microstructure and Thermal Expansion Behavior of Pollucite Derived from Geopolymer. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3784-3791.	3.8	9
132	A novel in situ synthesis of SiBCN-Zr composites prepared by a sol-gel process and spark plasma sintering. <i>Dalton Transactions</i> , 2016, 45, 12739-12744.	3.3	9
133	Effect of ball milling treatment on the microstructures and properties of Cr <sub>2</sub> AlC powders and hot pressed bulk ceramics. <i>Journal of the European Ceramic Society</i> , 2019, 39, 5140-5148.	5.7	9
134	Effects of TaC addition on microstructure and mechanical properties of SiBCN composite ceramics. <i>Ceramics International</i> , 2019, 45, 22138-22147.	4.8	9
135	Synthesis of Novel Cobalt-Containing Polysilazane Nanofibers with Fluorescence by Electrospinning. <i>Polymers</i> , 2016, 8, 350.	4.5	8
136	Effects of Na <sup>+</sup> substitution Cs <sup>+</sup> on the microstructure and thermal expansion behavior of ceramic derived from geopolymer. <i>Journal of the American Ceramic Society</i> , 2017, 100, 4412-4424.	3.8	8
137	Carbon content-dependent microstructures, surface characteristics and thermal stability of mechanical alloying derived SiBCN powders. <i>Ceramics International</i> , 2018, 44, 3614-3624.	4.8	8
138	Enhanced thermal shock and oxidation resistance of Si <sub>2</sub> BC <sub>3</sub> N ceramics through MWCNTs incorporation. <i>Journal of Advanced Ceramics</i> , 2018, 7, 276-288.	17.4	8
139	Dense amorphous Si <sub>2</sub> BC <sub>1-4</sub> N monoliths resistant to high-temperature oxidation for hypersonic vehicle. <i>Corrosion Science</i> , 2020, 163, 108231.	6.6	8
140	Direct ink writing of geopolymer with high spatial resolution and tunable mechanical properties. <i>Additive Manufacturing</i> , 2021, 46, 102202.	3.0	8
141	Transparent and High-Absolute-Effectiveness Electromagnetic Interference Shielding Film Based on Single-Crystal Graphene. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	8
142	Microstructure and erosion resistance of in-situ SiAlON reinforced BN-SiO <sub>2</sub> composite ceramics. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 315-320.	1.0	7
143	Thermal shock resistance of the porous boron nitride/silicon oxynitride ceramic composites. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 1358-1365.	2.1	7
144	Enhanced Strengths and Thermal Shock Resistance of SiC-BN-10 Vol% C <sub>f</sub> Composites through ZrB <sub>2</sub> Addition. <i>Transactions of the Indian Ceramic Society</i> , 2019, 78, 204-211.	1.0	7

#	ARTICLE	IF	CITATIONS
145	Effects of Zr and chopped C fiber on microstructure and mechanical properties of SiBCN ceramics. <i>Science China Technological Sciences</i> , 2020, 63, 1520-1530.	4.0	7
146	BCl <sub>3</sub> modified tris(dichloromethylsilylethyl)borane as a precursor for SiBCN ceramics applied in lithium-ion battery anodes. <i>Ceramics International</i> , 2021, 47, 22839-22853.	4.8	7
147	Hardness and toughness improvement of SiC-based ceramics with the addition of (Hf <sub>0.2</sub> Mo <sub>0.2</sub> Ta <sub>0.2</sub> Nb <sub>0.2</sub> Ti <sub>0.2</sub> )B <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , 2022, 105, 1629-1634.	3.8	7
148	MECHANICAL PROPERTIES AND FRACTURE BEHAVIOR OF ELECTROLESS Ni-PLATED SHORT CARBON FIBER REINFORCED GEOPOLYMER MATRIX COMPOSITES. <i>International Journal of Modern Physics B</i> , 2009, 23, 1371-1376.	2.0	6
149	Electrophoretic sol-gel synthesis of SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> nanowires. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 56, 87-92.	2.4	6
150	Dense, pure SiC monoliths with excellent oxidation resistance sintered at low temperatures and high pressures. <i>Ceramics International</i> , 2015, 41, 15227-15230.	4.8	6
151	Microstructure and thermal shock behavior of sol-gel introduced ZrB <sub>2</sub> reinforced SiBCN matrix. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 365-373.	2.4	6
152	Geopolymer-Encapsulated Cesium Lead Bromide Perovskite Nanocrystals for Potential Display Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 11695-11700.	5.0	6
153	Mechanical and thermal shock properties of C/SiBCN composite: Effect of sintering densification and fiber coating. <i>Journal of the American Ceramic Society</i> , 2022, 105, 4321-4335.	3.8	6
154	Growth of wafer-scale graphene-hexagonal boron nitride vertical heterostructures with clear interfaces for obtaining atomically thin electrical analogs. <i>Nanoscale</i> , 2022, 14, 4204-4215.	5.6	6
155	Microstructural evolution of amorphous Si <sub>2</sub> BC <sub>3</sub> 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
156	Influence of sintering temperature on the crystallization and mechanical properties of BN/MAS composites. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3590-3600.	3.8	5
157	Facile synthesis, microstructure and photophysical properties of core-shell nanostructured (SiCN)/BN nanocomposites. <i>Scientific Reports</i> , 2017, 7, 39866.	3.3	4
158	Synthesis of coatings on SiC fibers and their effects on microstructure and mechanical properties of SiC <sub>f</sub> /SiBCN composites. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6589-6600.	3.8	4
159	Preparation and characterization of Cf/Pollucite composites through geopolymer precursors. <i>Ceramics International</i> , 2021, 47, 31713-31723.	4.8	4
160	Atomistic insight into the structure and diffusion properties of pollucite glass-ceramics. <i>Ceramics International</i> , 2022, 48, 11134-11144.	4.8	4
161	Mechanical alloying derived SiBCN-Ta <sub>4</sub> HfC <sub>5</sub> composite ceramics: study on amorphous transformation mechanism. <i>Journal of Non-Crystalline Solids</i> , 2022, 585, 121543.	3.1	4
162	Carbon content-dependent phase composition, microstructural evolution, and mechanical properties of Si <sub>1-x</sub> BCN <sub>x</sub> monoliths. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2137-2154.	3.8	3

#	ARTICLE	IF	CITATIONS
163	In situ ZrC/Si-B-C-N monoliths prepared by sol-gel and reactive hot-pressing: Processing, microstructure, mechanical properties and oxidation behavior. Journal of Alloys and Compounds, 2019, 811, 151687.	5.5	3
164	Synthesis mechanism of amorphous Si <sub>2</sub> BC <sub>3</sub> N powders: Structural evolution of 2Siâ€³BNâ€³C mixtures during mechanical alloying. Journal of the American Ceramic Society, 2020, 103, 4189-4202.	3.8	3
165	The new complex high-entropy metal boron carbonitride: Microstructure and mechanical properties. Journal of the American Ceramic Society, 2022, 105, 6417-6426.	3.8	3
166	Bi-fluctuation in Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ferroelectric ceramics with abnormal relaxor behaviour. Philosophical Magazine, 2019, 99, 2661-2680.	1.6	2
167	Geopolymer and Geopolymer Matrix Composites. Springer Series in Materials Science, 2020, , .	0.6	2
168	Crystallinity dependence of high-temperature oxidation of silicoboron carbonitride monoliths. Corrosion Science, 2021, 187, 109473.	6.6	2
169	Moâ€³SiBCN metal-ceramic composites with enhanced and tunable thermophysical properties and thermal shock resistance. Ceramics International, 2022, 48, 5744-5751.	4.8	2
170	Preparation and properties of SrBi <sub>2.2</sub> Ta <sub>2</sub> O <sub>9</sub> thin film. Central South University, 2005, 12, 376-379.	0.5	1
171	Geopolymerization Mechanism of Geopolymers. Springer Series in Materials Science, 2020, , 35-80.	0.6	1
172	Geopolymers and Their Matrix Composites: A State-of-the-Art Review. Springer Series in Materials Science, 2020, , 7-34.	0.6	1
173	Effect of Polycarbosilane Content on Microstructures and Mechanical Properties of Short-Carbon-Fibre-Reinforced SiC Composites. Advanced Composites Letters, 2006, 15, 096369350601500.	1.3	0
174	A strategy for fabricating anisotropic Si <sub>3</sub> N <sub>4</sub> ceramics with controllable mechanical and thermal properties. International Journal of Applied Ceramic Technology, 2021, 18, 40-50.	2.1	0
175	Diffusion bonding of Ti-coated C f /SiBCN composites to Nb using Ag-Pd interlayer. International Journal of Applied Ceramic Technology, 0, , .	2.1	0
176	Concepts for Energy Absorption and Dissipation in Ceramic Armor. , 0, , 57-70.		0
177	Short SiC Fiber and Hybrid SiC/Carbon Fiber Reinforced Geopolymer Matrix Composites. Springer Series in Materials Science, 2020, , 243-270.	0.6	0
178	Particles-Reinforced Geopolymer Matrix Composites. Springer Series in Materials Science, 2020, , 131-177.	0.6	0
179	Continuous Fibers-Reinforced Geopolymer Matrix Composites. Springer Series in Materials Science, 2020, , 271-307.	0.6	0
180	Graphene-Reinforced Geopolymer Matrix Composites. Springer Series in Materials Science, 2020, , 81-129.	0.6	0

#	ARTICLE	IF	CITATIONS
181	Short Carbon Fiber (Csf)-Reinforced Geopolymer Matrix Composites. Springer Series in Materials Science, 2020, , 179-241.	0.6	0