

De-Chang Jia

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

174
papers

3,622
citations

32
h-index

50
g-index

183
ext. papers

4,548
ext. citations

5.8
avg. IF

5.63
L-index

#	Paper	IF	Citations
174	Co-growing design of super-repellent dual-layer coating for multiple heat dissipation improvement. <i>Chemical Engineering Journal</i> , 2022 , 427, 131701	14.7	4
173	One-step fabrication of double-layer nanocomposite coating by plasma electrolytic oxidation with particle addition. <i>Applied Surface Science</i> , 2022 , 153043	6.7	0
172	Mechanical alloying derived SiBCN-Ta ₄ HfC ₅ composite ceramics: study on amorphous transformation mechanism. <i>Journal of Non-Crystalline Solids</i> , 2022 , 585, 121543	3.9	0
171	MoSiBCN metal-ceramic composites with enhanced and tunable thermophysical properties and thermal shock resistance. <i>Ceramics International</i> , 2021 , 48, 5744-5744	5.1	1
170	Low Optical Writing Energy Multibit Optoelectronic Memory Based on SnS/h-BN/Graphene Heterostructure. <i>Small</i> , 2021 , 17, e2104459	11	5
169	First-principles study of the anisotropic thermal expansion and thermal transport properties in h-BN. <i>Science China Materials</i> , 2021 , 64, 953-963	7.1	3
168	Electrospinning of pure polymer-derived SiBCN nanofibers with high yield. <i>Ceramics International</i> , 2021 , 47, 10958-10964	5.1	7
167	Solvents adjusted pure phase CoCO ₃ as anodes for high cycle stability. <i>Journal of Advanced Ceramics</i> , 2021 , 10, 509-519	10.7	6
166	Biologically Inspired Scalable-Manufactured Dual-layer Coating with a Hierarchical Micropattern for Highly Efficient Passive Radiative Cooling and Robust Superhydrophobicity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21888-21897	9.5	9
165	Hydrothermal transformation of geopolymers to bulk zeolite structures for efficient hazardous elements adsorption. <i>Science of the Total Environment</i> , 2021 , 767, 144973	10.2	10
164	Crystallinity dependence of high-temperature oxidation of silicoboron carbonitride monoliths. <i>Corrosion Science</i> , 2021 , 187, 109473	6.8	0
163	Synthesis of coatings on SiC fibers and their effects on microstructure and mechanical properties of SiCf/SiBCN composites. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 6589	3.8	0
162	SiBCN-reduced graphene oxide (rGO) ceramic composites derived from single-source-precursor with enhanced and tunable microwave absorption performance. <i>Carbon</i> , 2021 , 179, 180-189	10.4	8
161	A strategy for fabricating anisotropic Si ₃ N ₄ ceramics with controllable mechanical and thermal properties. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 40-50	2	
160	Polymer-Derived Lightweight SiBCN Ceramic Nanofibers with High Microwave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34889-34898	9.5	12
159	On the formation mechanisms and properties of MAX phases: A review. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 3851-3878	6	17
158	Enhanced ablation resistance of HfB ₂ -HfC/SiBCN ceramics under an oxyacetylene torch environment. <i>Corrosion Science</i> , 2021 , 187, 109509	6.8	6

157	BCl ₃ modified tris(dichloromethylsilylethyl)borane as a precursor for SiBCN ceramics applied in lithium-ion battery anodes. <i>Ceramics International</i> , 2021 , 47, 22839-22853	5.1	2
156	A Comparative Study on High Temperature Oxidation Behavior of SiC, SiC-BN and SiBCN Monoliths. <i>Corrosion Science</i> , 2021 , 109855	6.8	1
155	Direct ink writing of geopolymer with high spatial resolution and tunable mechanical properties. <i>Additive Manufacturing</i> , 2021 , 46, 102202	6.1	5
154	Preparation and characterization of Cf/Pollucite composites through geopolymer precursors. <i>Ceramics International</i> , 2021 , 47, 31713-31723	5.1	0
153	Porous geopolymer composites: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 150, 106629	8.4	27
152	Microstructural evolution and mechanical properties of in situ nano Ta ₄ HfC ₅ reinforced SiBCN composite ceramics. <i>Journal of Advanced Ceramics</i> , 2020 , 9, 739-748	10.7	11
151	Direct ink writing of continuous SiO ₂ fiber reinforced wave-transparent ceramics. <i>Journal of Advanced Ceramics</i> , 2020 , 9, 403-412	10.7	13
150	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	8
149	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	3.5	5
148	A self-adjusting PTFE/TiO ₂ hydrophobic double-layer coating for corrosion resistance and electrical insulation. <i>Chemical Engineering Journal</i> , 2020 , 402, 126116	14.7	23
147	Fabrication of Si ₂ N ₂ O Ceramic Foam by Combination of Direct Ink Writing and Biological Foaming Techniques. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901541	3.5	4
146	Synthesis mechanism of amorphous Si ₂ BC ₃ N powders: Structural evolution of 2Si-BN-3C mixtures during mechanical alloying. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4189-4202	3.8	2
145	Geopolymerization Mechanism of Geopolymers. <i>Springer Series in Materials Science</i> , 2020 , 35-80	0.9	
144	Geopolymers and Their Matrix Composites: A State-of-the-Art Review. <i>Springer Series in Materials Science</i> , 2020 , 7-34	0.9	
143	Particles-Reinforced Geopolymer Matrix Composites. <i>Springer Series in Materials Science</i> , 2020 , 131-177	0.9	
142	Continuous Fibers-Reinforced Geopolymer Matrix Composites. <i>Springer Series in Materials Science</i> , 2020 , 271-307	0.9	
141	Graphene-Reinforced Geopolymer Matrix Composites. <i>Springer Series in Materials Science</i> , 2020 , 81-129	0.9	
140	Short Carbon Fiber (Csf)-Reinforced Geopolymer Matrix Composites. <i>Springer Series in Materials Science</i> , 2020 , 179-241	0.9	

139	Short SiC Fiber and Hybrid SiC/Carbon Fiber Reinforced Geopolymer Matrix Composites. <i>Springer Series in Materials Science</i> , 2020 , 243-270	0.9	
138	Immobilization behavior of Sr in geopolymer and its ceramic product. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 1372-1384	3.8	13
137	Interplay between storage temperature, medium and leaching kinetics of hazardous wastes in Metakaolin-based geopolymer. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121377	12.8	25
136	Incorporation of BN-coated carbon fibers into ZrB ₂ /SiBCN ceramic composites and their ablation behavior. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 1078-1085	6	16
135	Intrinsic Dipole Coupling in 2D van der Waals Ferroelectrics for Gate-Controlled Switchable Rectifier. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900975	6.4	19
134	B ₂ O ₃ -assisted low-temperature crystallization of pollucite structures and their potential applications in Cs ⁺ immobilization. <i>Journal of Nuclear Materials</i> , 2020 , 540, 152314	3.3	8
133	Scalable-Manufactured Superhydrophobic Multilayer Nanocomposite Coating with Mechanochemical Robustness and High-Temperature Endurance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35502-35512	9.5	14
132	Robust Inorganic Daytime Radiative Cooling Coating Based on a Phosphate Geopolymer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54963-54971	9.5	12
131	Geopolymer and Geopolymer Matrix Composites. <i>Springer Series in Materials Science</i> , 2020 ,	0.9	1
130	Geopolymer-Encapsulated Cesium Lead Bromide Perovskite Nanocrystals for Potential Display Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11695-11700	5.6	2
129	Dense amorphous Si ₂ BC ₁₋₄ N monoliths resistant to high-temperature oxidation for hypersonic vehicle. <i>Corrosion Science</i> , 2020 , 163, 108231	6.8	4
128	From bulk to porous structures: Tailoring monoclinic SrAl ₂ Si ₂ O ₈ ceramic by geopolymer precursor technique. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4957-4968	3.8	5
127	Safe trapping of cesium into doping-enhanced pollucite structure by geopolymer precursor technique. <i>Journal of Hazardous Materials</i> , 2019 , 367, 577-588	12.8	20
126	Thermal properties and thermal shock resistance of BAS-BN composite ceramics. <i>Ceramics International</i> , 2019 , 45, 8181-8187	5.1	16
125	Anisotropic properties of textured h-BN matrix ceramics prepared using 3Y ₂ O ₃ -5Al ₂ O ₃ (-4MgO) as sintering additives. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1788-1795	6	9
124	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	7.9	32
123	High-temperature oxidation resistance of dense amorphous boron-rich SiBCN monoliths. <i>Corrosion Science</i> , 2019 , 157, 312-323	6.8	10
122	Processing and mechanical performance of 3D Cf/SiCN composites prepared by polymer impregnation and pyrolysis. <i>Ceramics International</i> , 2019 , 45, 17344-17353	5.1	4

121	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	10.3	33
120	Enhanced mechanical properties and thermal shock resistance of Si ₂ BC ₃ N ceramics with SiC coated MWCNTs. <i>Journal of Advanced Ceramics</i> , 2019 , 8, 121-132	10.7	19
119	Preparation and anisotropic properties of textured structural ceramics: A review. <i>Journal of Advanced Ceramics</i> , 2019 , 8, 289-332	10.7	51
118	In situ ZrC/Si-B-C-N monoliths prepared by sol-gel and reactive hot-pressing: Processing, microstructure, mechanical properties and oxidation behavior. <i>Journal of Alloys and Compounds</i> , 2019 , 811, 151687	5.7	3
117	Effect of ball milling treatment on the microstructures and properties of Cr ₂ AlC powders and hot pressed bulk ceramics. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 5140-5148	6	7
116	Rapid Fabrication, Microstructure, and 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	5.5	2
115	Bi-fluctuation in Na _{0.5} Bi _{0.5} TiO ₃ ferroelectric ceramics with abnormal relaxor behaviour. <i>Philosophical Magazine</i> , 2019 , 99, 2661-2680	1.6	2
114	Effects of TaC addition on microstructure and mechanical properties of SiBCN composite ceramics. <i>Ceramics International</i> , 2019 , 45, 22138-22147	5.1	5
113	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	11.5	74
112	Enhanced Strengths and Thermal Shock Resistance of SiC-BN-10 Vol% Cf Composites through ZrB ₂ Addition. <i>Transactions of the Indian Ceramic Society</i> , 2019 , 78, 204-211	1.8	5
111	Monoclinic-celsian ceramics formation: Through thermal treatment of ion-exchanged 3D printing geopolymer precursor. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 563-573	6	18
110	High voltage resistance ceramic coating fabricated on titanium alloy for insulation shielding application. <i>Ceramics International</i> , 2019 , 45, 1909-1917	5.1	8
109	Microstructure and thermal shock behavior of sol-gel introduced ZrB ₂ reinforced SiBCN matrix. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 86, 365-373	2.3	5
108	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	4
107	Boron-dependent microstructural evolution, thermal stability, and crystallization of mechanical alloying derived SiBCN. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3205-3221	3.8	7
106	The effect of applied voltages on the structure, apatite-inducing ability and antibacterial ability of micro arc oxidation coating formed on titanium surface. <i>Bioactive Materials</i> , 2018 , 3, 426-433	16.7	26
105	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	42.2	47
104	Synthesis of novel low-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		16

103	Carbon-content-dependent phase composition, microstructural evolution, and mechanical properties of SiBCN monoliths. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2137-2154	3.8	2
102	Crystallisation process of Bi ₅ Ti ₃ FeO ₁₅ multiferroic nanoparticles synthesised by a sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 85, 132-139	2.3	12
101	Carbon content-dependent microstructures, surface characteristics and thermal stability of mechanical alloying derived SiBCN powders. <i>Ceramics International</i> , 2018 , 44, 3614-3624	5.1	4
100	Enhanced thermal shock and oxidation resistance of Si ₂ BC ₃ N ceramics through MWCNTs incorporation. <i>Journal of Advanced Ceramics</i> , 2018 , 7, 276-288	10.7	6
99	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	3
98	Facile synthesis, microstructure and photophysical properties of core-shell nanostructured (SiCN)/BN nanocomposites. <i>Scientific Reports</i> , 2017 , 7, 39866	4.9	3
97	Densification, microstructural evolution and mechanical properties of Si-B-C-N monoliths with LaB ₆ addition. <i>Journal of Alloys and Compounds</i> , 2017 , 696, 1090-1095	5.7	12
96	Synthesis, piezoelectric property and domain behaviour of the vertically aligned K _{1-x} Na _x NbO ₃ nanowire with a morphotropic phase boundary. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 747-753	7.1	14
95	In situ processing of MWCNTs/leucite composites through geopolymer precursor. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 2219-2226	6	27
94	Effects of high-temperature heat treatment on the microstructure and mechanical performance of hybrid CF-SiCf-(Al ₂ O ₃ p) reinforced geopolymer composites. <i>Composites Part B: Engineering</i> , 2017 , 114, 289-298	10	17
93	Effects of graphene oxide on the geopolymerization mechanism determined by quenching the reaction at intermediate states. <i>RSC Advances</i> , 2017 , 7, 13498-13508	3.7	17
92	3D printing strong and conductive geo-polymer nanocomposite structures modified by graphene oxide. <i>Carbon</i> , 2017 , 117, 421-426	10.4	110
91	Celsian formation from barium-exchanged geopolymer precursor: Thermal evolution. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 4179-4185	6	19
90	Effects of boron addition on the high temperature oxidation resistance of dense sSiBCN monoliths at 1500 °C. <i>Corrosion Science</i> , 2017 , 126, 10-25	6.8	25
89	Novel geopolymer based composites reinforced with stainless steel mesh and chromium powder. <i>Construction and Building Materials</i> , 2017 , 150, 89-94	6.7	6
88	High-temperature oxidation behavior of dense SiBCN monoliths: Carbon-content dependent oxidation structure, kinetics and mechanisms. <i>Corrosion Science</i> , 2017 , 124, 103-120	6.8	22
87	Effects of Na ⁺ substitution Cs ⁺ 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	4
86	Effect of magnesium aluminum silicate glass on the thermal shock resistance of BN matrix composite ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2669-2678	3.8	11

85	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	8.3	18
84	Mechanical, dielectric and thermal properties of porous boron nitride/silicon oxynitride ceramic composites prepared by pressureless sintering. <i>Ceramics International</i> , 2017 , 43, 8230-8235	5.1	31
83	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	3.7	10
82	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	4.9	7
81	Effects of graphite on the mechanical and microwave absorption properties of geopolymer based composites. <i>Ceramics International</i> , 2017 , 43, 2325-2332	5.1	22
80	Preparation and in-situ high-temperature mechanical properties of Cf-SiCf reinforced geopolymer composites. <i>Ceramics International</i> , 2017 , 43, 549-555	5.1	11
79	Effect of reduced graphene oxide content on the microstructure and mechanical properties of graphene/geopolymer nanocomposites. <i>Ceramics International</i> , 2016 , 42, 752-758	5.1	40
78	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, 12739-44	4.3	7
77	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	6.8	28
76	Effects of Si/Al ratio on the structure and properties of metakaolin based geopolymer. <i>Ceramics International</i> , 2016 , 42, 14416-14422	5.1	145
75	Synthesis and structural evolution of dual-boron-source-modified polysilazane derived SiBCN ceramics. <i>New Journal of Chemistry</i> , 2016 , 40, 7034-7042	3.6	21
74	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	3.7	11
73	Crystallization kinetics and microstructure evolution of reduced graphene oxide/geopolymer composites. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2601-2609	6	16
72	Microstructure and erosion resistance of in-situ SiAlON reinforced BN-SiO ₂ composite ceramics. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016 , 31, 315-320	1	6
71	SiC fiber reinforced geopolymer composites, part 2: Continuous SiC fiber. <i>Ceramics International</i> , 2016 , 42, 12239-12245	5.1	26
70	In Situ Processing of Graphene/Leucite Nanocomposite Through Graphene Oxide/Geopolymer. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1164-1173	3.8	21
69	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	4.3	12
68	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	5.1	47

67	SiC fiber reinforced geopolymer composites, part 1: Short SiC fiber. <i>Ceramics International</i> , 2016 , 42, 5345-5352	5.1	31
66	Microstructure, oxidation and thermal shock resistance of graphene reinforced SiBCN ceramics. <i>Ceramics International</i> , 2016 , 42, 4429-4444	5.1	26
65	Synthesis of Novel Cobalt-Containing Polysilazane Nanofibers with Fluorescence by Electrospinning. <i>Polymers</i> , 2016 , 8,	4.5	6
64	Crystallization Behavior and Multiferroic Properties of Bi ₃ .15Nd _{0.85} Ti ₃ O ₁₂ /CoFe ₂ O ₄ Powders Synthesized by Sol-Gel Method. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2334-2340	3.8	11
63	In-situ preparation of fully stabilized graphene/cubic-leucite composite through graphene oxide/geopolymer. <i>Materials and Design</i> , 2016 , 101, 301-308	8.1	17
62	Effect of curing temperature and SiO ₂ /K ₂ O molar ratio on the performance of metakaolin-based geopolymers. <i>Ceramics International</i> , 2016 , 42, 16184-16190	5.1	49
61	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	5.1	15
60	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	6
59	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	5.1	19
58	Ablation behavior of graphene reinforced SiBCN ceramics in an oxyacetylene combustion flame. <i>Corrosion Science</i> , 2015 , 100, 85-100	6.8	39
57	Microstructures, mechanical properties and oxidation resistance of SiBCN ceramics with the addition of MgO, ZrO ₂ and SiO ₂ (MZS) as sintering additives. <i>RSC Advances</i> , 2015 , 5, 52194-52205	3.7	11
56	Synergistic effects of surface chemistry and topologic structure from modified microarc oxidation coatings on Ti implants for improving osseointegration. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8932-41	9.5	63
55	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	5.1	39
54	H ₂ Ti ₅ O ₁₁ ·H ₂ 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	3.3	6
53	Preparation, microstructures, mechanical properties and oxidation resistance of SiBCN/ZrB ₂ /rN ceramics by reactive hot pressing. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 4399-4410	6	31
52	Dense, pure SiC monoliths with excellent oxidation resistance sintered at low temperatures and high pressures. <i>Ceramics International</i> , 2015 , 41, 15227-15230	5.1	6
51	Conformal coating containing Ca, P, Si and Na with double-level porous surface structure on titanium formed by a three-step microarc oxidation. <i>RSC Advances</i> , 2015 , 5, 28908-28920	3.7	15
50	A facile approach to construct BiOI/Bi ₅ O ₇ I composites with heterostructures: efficient charge separation and enhanced photocatalytic activity. <i>RSC Advances</i> , 2015 , 5, 74174-74179	3.7	29

49	Highly Dense Amorphous Si ₂ BC ₃ 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	17
48	Crystallization Behavior of Amorphous Si ₂ BC ₃ N Ceramic Monolith Subjected to High Pressure. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3788-3796	3.8	13
47	In situ fabrication and characterization of graphene/geopolymer composites. <i>Ceramics International</i> , 2015 , 41, 11242-11250	5.1	48
46	Synthesis of high-purity, isotropic or textured Cr ₂ AlC bulk ceramics by spark plasma sintering of pressure-less sintered powders. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1393-1400	6	52
45	Microstructure and mechanical properties of SiCf/SiBCN ceramic matrix composites. <i>Journal of Advanced Ceramics</i> , 2015 , 4, 31-38	10.7	18
44	The effect of NaOH concentration on the steam-hydrothermally treated bioactive microarc oxidation coatings containing Ca, P, Si and Na on pure Ti surface. <i>Materials Science and Engineering C</i> , 2015 , 49, 669-680	8.3	15
43	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	2.9	10
42	MC3T3-E1 cell response of amorphous phase/TiO ₂ nanocrystal composite coating prepared by microarc oxidation on titanium. <i>Materials Science and Engineering C</i> , 2014 , 39, 186-95	8.3	22
41	Ablation mechanism and properties of SiCf/SiBCN ceramic composites under an oxyacetylene torch environment. <i>Corrosion Science</i> , 2014 , 82, 101-107	6.8	43
40	Influence of ball milling parameters on the structure of the mechanically alloyed SiBCN powder. <i>Ceramics International</i> , 2013 , 39, 1963-1969	5.1	25
39	Low-temperature sintered pollucite ceramic from geopolymer precursor using synthetic metakaolin. <i>Journal of Materials Science</i> , 2013 , 48, 1812-1818	4.3	28
38	Effect of BN content on microstructures, mechanical and dielectric properties of porous BN/Si ₃ N ₄ composite ceramics prepared by gel casting. <i>Ceramics International</i> , 2013 , 39, 4231-4237	5.1	50
37	Interface evolution of the Cf/leucite composites derived from Cf/geopolymer composites. <i>Ceramics International</i> , 2013 , 39, 1203-1208	5.1	8
36	Microstructure and integrity of leucite ceramic derived from potassium-based geopolymer precursor. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 689-698	6	54
35	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	4.3	21
34	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	10.7	68
33	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	5.7	43
32	Diffusion bonding of ZrB ₂ SiC/Nb with in situ synthesized TiB whiskers array. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 4447-4454	6	37

31	Physical and surface characteristics of the mechanically alloyed SiBCN powder. <i>Ceramics International</i> , 2012 , 38, 6399-6404	5.1	33
30	Influence of residual stress on magnetoelectric coupling of bilayered CoFe ₂ O ₄ /PMNBT thin films. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10738		14
29	Thermal evolution and crystallization kinetics of potassium-based geopolymer. <i>Ceramics International</i> , 2011 , 37, 59-63	5.1	60
28	Microstructural and mechanical characterization of fly ash cenosphere/metakaolin-based geopolymeric composites. <i>Ceramics International</i> , 2011 , 37, 1661-1666	5.1	66
27	Effect of Si/C ratio and their content on the microstructure and properties of SiBCN Ceramics prepared by spark plasma sintering techniques. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1944-1948	5.3	24
26	Development of Single-Chamber Solid Oxide Fuel Cells: Performance Optimization and Micro-Stack Designs. <i>Ceramic Transactions</i> , 2010 , 173-177	0.1	1
25	Microstructure and thermal stabilities in various atmospheres of SiB _{0.5} C _{1.5} N _{0.5} nano-sized powders fabricated by mechanical alloying technique. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 326-333	3.9	28
24	In situ crack growth observation and fracture behavior of short carbon fiber reinforced geopolymer matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2404-2407	5.3	61
23	Electrophoretic sol-gel synthesis of SrBi ₂ Ta ₂ O ₉ nanowires. <i>Journal of Sol-Gel Science and Technology</i> , 2010 , 56, 87-92	2.3	6
22	Characterization of porous silicon nitride/silicon oxynitride composite ceramics produced by sol infiltration. <i>Materials Chemistry and Physics</i> , 2010 , 124, 97-101	4.4	26
21	Improvement of high-temperature mechanical properties of heat treated Cf/geopolymer composites by Sol-SiO ₂ impregnation. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 3053-3061	6	34
20	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	5.1	165
19	Effect of cesium substitution on the thermal evolution and ceramics formation of potassium-based geopolymer. <i>Ceramics International</i> , 2010 , 36, 2395-2400	5.1	58
18	Synthesis and characterization of ferroelectric SrBi ₂ Ta ₂ O ₉ nanotubes arrays. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 52, 120-123	2.3	15
17	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	62
16	Thermal-mechanical properties of short carbon fiber reinforced geopolymer matrix composites subjected to thermal load. <i>Central South University</i> , 2009 , 16, 881-886		36
15	Microwave-dielectric and magnetic properties of Ta-doped BiFeO ₃ nanopowders. <i>Philosophical Magazine Letters</i> , 2009 , 89, 701-710	1	14
14	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	1.1	4

13	Electrochemical investigation of silicon/carbon composite as anode material for lithium ion batteries. <i>Journal of Materials Science</i> , 2008 , 43, 3149-3152	4.3	13
12	Effects of fiber length on mechanical properties and fracture behavior of short carbon fiber reinforced geopolymer matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 497, 181-185	5.3	150
11	Processing and characterization of SiB _{0.5} C _{1.5} N _{0.5} produced by mechanical alloying and subsequent spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 488, 241-246	5.3	30
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9	Fabrication and characterization of amorphous SiBCN powders. <i>Ceramics International</i> , 2007 , 33, 1573-1577	5.7	29
8	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	16
7	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	3.5	94
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