

Qing Huang

List of Publications by Year in descending order

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papers

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citations

17776

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419
all docs

419
docs citations

419
times ranked

20232
citing authors

#	ARTICLE	IF	CITATIONS
1	Molten Saltâ€Shielded Synthesis (MS ³) of MXenes in Air. Energy and Environmental Materials, 2023, 6, .	7.3	25
2	A statistical analysis of pores and microcracks in nuclear graphite. Surface and Interface Analysis, 2022, 54, 37-44.	0.8	2
3	Effect of A-site atom on static corrosion behavior and irradiation damage of Ti ₂ SC phases. Journal of the American Ceramic Society, 2022, 105, 1386-1393.	1.9	2
4	The thermal and elastic properties of U ₃ Si ₅ and their variations induced by incorporated aluminum. Journal of Nuclear Materials, 2022, 558, 153331.	1.3	1
5	Facile synthesis of a carbon-rich SiAlCN precursor and investigation of its structural evolution during the polymer-ceramic conversion process. Ceramics International, 2022, 48, 3311-3327.	2.3	5
6	Poly(cyclosiloxaneâ€carborane)s for harsh environments. Polymer Chemistry, 2022, 13, 1328-1334.	1.9	8
7	Degradable Ti ₃ C ₂ T _x MXene Nanosheets Containing a Lignin Polyurethane Photothermal Foam (LPUF) for Rapid Crude Oil Cleanup. ACS Applied Nano Materials, 2022, 5, 2848-2858.	2.4	36
8	A Semiconductorâ€Mediatorâ€Catalyst Artificial Photosynthetic System for Photoelectrochemical Water Oxidation. Chemistry - A European Journal, 2022, 28, e202102630.	1.7	4
9	Synthesis and thermal expansion of chalcogenide MAX phase Hf ₂ SeC. Journal of the European Ceramic Society, 2022, 42, 2084-2088.	2.8	19
10	Modification of Surfaces of Reduced-Activation Ferriticâ€Martensitic Steels upon Irradiation by Pulsed Deuterium Plasma with Parameters Typical for Peripheral Plasma Disruption. Journal of Surface Investigation, 2022, 16, 23-32.	0.1	3
11	Depth profile analysis of oxidized nuclear graphite microstructures using micro-focused synchrotron X-ray diffraction. Journal of Materials Science, 2022, 57, 6320-6334.	1.7	0
12	The role of carbon in microstructure evolution of SiBCO ceramics. Ceramics International, 2022, , .	2.3	3
13	Digital light processing of SiC ceramic from allylhydridopolycarbosilane with limited acrylate monomers. Ceramics International, 2022, 48, 18468-18474.	2.3	8
14	Synthesis, characterization, and magnetic properties of rare earth containing Mo _{4/3} RE _{2/3} AlB ₂ phases. Materials Research Letters, 2022, 10, 295-300.	4.1	3
15	Polymer derived SiBCN(O) ceramics with tunable element content. Ceramics International, 2022, 48, 10280-10287.	2.3	12
16	The oxidation mechanisms of the Xe ²⁰⁺ ion-irradiated Cr coatings on Zr alloy coupons: Accelerated diffusion and internal oxidation. Corrosion Science, 2022, 201, 110301.	3.0	9
17	Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated Ti ₃ C ₂ MXenes. ACS Nano, 2022, 16, 813-822.	7.3	90
18	Role of the A-Element in the Structural, Mechanical, and Electronic Properties of Ti ₃ AC ₂ MAX Phases. Inorganic Chemistry, 2022, 61, 2129-2140.	1.9	4

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19	Ecological circular agriculture: A case study evaluating biogas slurry applied to rice in two soils. <i>Chemosphere</i> , 2022, 301, 134628.	4.2	9
20	A novel pretreatment strategy for accurate determination the Al element content within polyaluminumcarbsilane. <i>Ceramics International</i> , 2022, , .	2.3	0
21	Low-temperature Pr ₃ Si ₂ C ₂ -assisted liquid-phase sintering of SiC with improved thermal conductivity. <i>Journal of the American Ceramic Society</i> , 2022, 105, 5576-5584.	1.9	11
22	Enhanced Electromagnetic Shielding and Thermal Conductive Properties of Polyolefin Composites with a Ti ₃ C ₂ T _x MXene/Graphene Framework Connected by a Hydrogen-Bonded Interface. <i>ACS Nano</i> , 2022, 16, 9254-9266.	7.3	54
23	Near-seamless joining of Cf/SiC composites using Y ₃ Si ₂ C ₂ via electric field-assisted sintering technique. <i>Journal of Advanced Ceramics</i> , 2022, 11, 1196-1207.	8.9	16
24	Chalcogenide MAX phases Zr ₂ Se(B _{1-x} Sex) (x=0~0.97) and their conduction behaviors. <i>Acta Materialia</i> , 2022, 237, 118183.	3.8	6
25	Universal Principle for Large-Scale Production of a High-Quality Two-Dimensional Monolayer via Positive Charge-Driven Exfoliation. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6597-6603.	2.1	6
26	Nanostructures and nanomechanical properties of ion-irradiated HOPG. <i>Carbon Letters</i> , 2021, 31, 593-599.	3.3	2
27	First-principles studies on behaviors of He impurities in d-MAX phase Zr ₃ Al ₃ C ₅ . <i>Journal of Nuclear Materials</i> , 2021, 544, 152653.	1.3	1
28	Application of Atomic Layer Deposition in Dye-Sensitized Photoelectrosynthesis Cells. <i>Trends in Chemistry</i> , 2021, 3, 59-71.	4.4	7
29	Medium-entropy (Ti, Zr, Hf) ₂ SC MAX phase. <i>Ceramics International</i> , 2021, 47, 7582-7587.	2.3	24
30	Joining of Ti-coated monolithic SiC using a SiCw/Ti ₃ Si ₂ C ₂ filler by electric field-assisted sintering. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1834-1840.	2.8	16
31	MAX Phase Ceramics/Composites with Complex Shapes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5645-5651.	4.0	19
32	Crosslinking of Active Polycarbosilane Initiated by Free Radical and Its Application in the Preparation of SiC Fibers. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021, 36, 967.	0.6	4
33	Activating the I ⁰ /I ⁺ redox couple in an aqueous I ₂ -Zn battery to achieve a high voltage plateau. <i>Energy and Environmental Science</i> , 2021, 14, 407-413.	15.6	129
34	Confining Aqueous Zn-Br Halide Redox Chemistry by Ti ₃ C ₂ T _x MXene. <i>ACS Nano</i> , 2021, 15, 1718-1726.	7.3	78
35	Molten Salt Synthesis of Nanolaminated Sc ₂ SnC MAX Phase. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021, 36, 773.	0.6	15
36	Helium-induced damage in U ₃ Si ₅ by first-principles studies. <i>RSC Advances</i> , 2021, 11, 26920-26927.	1.7	0

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37	Halogenated Ti_3C_2 MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. ACS Nano, 2021, 15, 1077-1085.	7.3	183
38	High-Temperature Resistant Polyborosilazanes with Tailored Structures. Polymers, 2021, 13, 467.	2.0	2
39	Multiscale Modeling of SiCf/SiC Nuclear Fuel Cladding Based on FE-Simulation of Braiding Process. Frontiers in Materials, 2021, 7, .	1.2	3
40	Two-Dimensional Carbonitride MXenes as an Efficient Electrocatalyst for Hydrogen Evolution. Journal of Physical Chemistry C, 2021, 125, 4477-4488.	1.5	13
41	Investigations of the stability and electronic structures of U_3Si_2-Al : A first-principles study. Chemical Physics, 2021, 543, 111088.	0.9	7
42	Development of a Phase Field Tool Coupling With Thermodynamic Data for Microstructure Evolution Simulation of Alloys in Nuclear Reactors. Frontiers in Materials, 2021, 8, .	1.2	1
43	Pseudo low-temperature sintering effect and microstructure evolution of SiBCO ceramics. Ceramics International, 2021, 47, 8888-8894.	2.3	2
44	MXenes: Two-Dimensional Building Blocks for Future Materials and Devices. ACS Nano, 2021, 15, 5775-5780.	7.3	250
45	First-principles investigations on the electronic structures, polycrystalline elastic properties, ideal strengths and elastic anisotropy of U_3Si_2 . European Physical Journal Plus, 2021, 136, 1.	1.2	5
46	Microstructure and properties of nano-laminated $Y_3Si_2C_2$ ceramics fabricated via in situ reaction by spark plasma sintering. Journal of Advanced Ceramics, 2021, 10, 578-586.	8.9	15
47	Exploring U_3Si_2 -based alloys through phase diagram investigations. Journal of Nuclear Materials, 2021, 547, 152770.	1.3	4
48	Enhanced plasticity of the oxide scales by in-situ formed Cr_2O_3/Cr heterostructures for Cr-based coatings on Zr alloy in 1200 °C steam. Corrosion Science, 2021, 184, 109361.	3.0	19
49	V_2CT_x and $Ti_3C_2T_x$ MXenes Nanosheets for Gas Sensing. ACS Applied Nano Materials, 2021, 4, 6257-6268.	2.4	52
50	Electrochemical Lithium Storage Performance of Molten Salt Derived V_2SnC MAX Phase. Nano-Micro Letters, 2021, 13, 158.	14.4	23
51	MAX phase Zr_2SeC and its thermal conduction behavior. Journal of the European Ceramic Society, 2021, 41, 4447-4451.	2.8	33
52	Li-ion storage properties of two-dimensional titanium-carbide synthesized via fast one-pot method in air atmosphere. Nature Communications, 2021, 12, 5085.	5.8	88
53	Effect of the 345 °C and 16.5 MPa autoclave corrosion on the oxidation behavior of Cr-coated zirconium claddings in the high-temperature steam. Corrosion Science, 2021, 189, 109608.	3.0	27
54	Low temperature seamless joining of SiC using a Ytterbium film. Journal of the European Ceramic Society, 2021, 41, 7507-7515.	2.8	10

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55	In-situ growth of MAX phase coatings on carbonised wood and their terahertz shielding properties. <i>Journal of Advanced Ceramics</i> , 2021, 10, 1291-1298.	8.9	15
56	Near-room temperature ferromagnetic behavior of single-atom-thick 2D iron in nanolaminated ternary MAX phases. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	14
57	Toward a Practical Zn Powder Anode: Ti ₃ C ₂ T _x MXene as a Lattice-Match Electrons/Ions Redistributor. <i>ACS Nano</i> , 2021, 15, 14631-14642.	7.3	137
58	The effect of nano-silica on the properties of magnesium oxychloride cement. <i>Advances in Cement Research</i> , 2021, 33, 413-422.	0.7	0
59	The studies of electronic structure, mechanical properties and ideal fracture behavior of U ₃ Si _{1.75} Al _{0.25} : first-principle investigations. <i>Journal of Materials Research and Technology</i> , 2021, 15, 1356-1369.	2.6	4
60	Zr ₂ Al ₃ C ₄ Coatings on Zirconium-alloy Substrates with Enhanced Adhesion and Diffusion Barriers by Al/Mo-C Interlayers. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021, 36, 541.	0.6	1
61	Enhanced Redox Kinetics and Duration of Aqueous I ₂ /I [•] Conversion Chemistry by MXene Confinement. <i>Advanced Materials</i> , 2021, 33, e2006897.	11.1	121
62	Intrinsic voltage plateau of a Nb ₂ CT _x MXene cathode in an aqueous electrolyte induced by high-voltage scanning. <i>Joule</i> , 2021, 5, 2993-3005.	11.7	74
63	Pressure Tuned Structural, Electronic and Elastic Properties of U ₃ Si ₂ C ₂ : A First Principles Study. <i>Crystals</i> , 2021, 11, 1420.	1.0	0
64	Effect of low-dose Xe ²⁰⁺ ion irradiation on the deformation behavior of the magnetron sputtered Cr coatings under nanoindentation. <i>Surface and Coatings Technology</i> , 2021, 428, 127907.	2.2	10
65	Long-term mechanical properties and micro mechanism of magnesium oxychloride cement concrete. <i>Advances in Cement Research</i> , 2020, 32, 371-378.	0.7	18
66	Materials development and potential applications of transparent ceramics: A review. <i>Materials Science and Engineering Reports</i> , 2020, 139, 100518.	14.8	221
67	Corrosion behavior of ion-irradiated SiC in FLiNaK molten salt. <i>Corrosion Science</i> , 2020, 163, 108229.	3.0	13
68	Almost seamless joining of SiC using an in-situ reaction transition phase of Y ₃ Si ₂ C ₂ . <i>Journal of the European Ceramic Society</i> , 2020, 40, 259-266.	2.8	26
69	Theoretical investigations on the U ₂ Mo ₃ Si ₄ compound from first-principles calculations. <i>Progress in Nuclear Energy</i> , 2020, 118, 103121.	1.3	2
70	Two-dimensional semiconducting Lu ₂ CT ₂ (T = F, OH) MXene with low work function and high carrier mobility. <i>Nanoscale</i> , 2020, 12, 3795-3802.	2.8	30
71	Mo ₂ B, an MBene member with high electrical and thermal conductivities, and satisfactory performances in lithium ion batteries. <i>Nanoscale Advances</i> , 2020, 2, 347-355.	2.2	38
72	Phase Transition Induced Unusual Electrochemical Performance of V ₂ CT _x MXene for Aqueous Zinc Hybrid-Ion Battery. <i>ACS Nano</i> , 2020, 14, 541-551.	7.3	179

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73	Multielemental single-atom-thick layers in nanolaminated V ₂ (Sn, C) Tj ETQq1 1 0.784314 rgBT / Overlock 10 T Sciences of the United States of America, 2020, 117, 820-825.	3.3	84
74	Structural, mechanical and electronic properties of two-dimensional chlorine-terminated transition metal carbides and nitrides. Journal of Physics Condensed Matter, 2020, 32, 135302.	0.7	18
75	The preparation of SiC ultrafine fibers containing low amount of oxygen by the electrospinning and pyrolysis of vinyl-modified polycarbosilane. Ceramics International, 2020, 46, 9894-9900.	2.3	16
76	Preparation of hollow SiC ceramic fibre from polycarbosilane fibre by diffusion-controlled cross-linking method. Advances in Applied Ceramics, 2020, 119, 166-173.	0.6	7
77	Latent Tracks in Ion-Irradiated LiTaO ₃ Crystals: Damage Morphology Characterization and Thermal Spike Analysis. Crystals, 2020, 10, 877.	1.0	8
78	First-principles investigations on the anisotropic elasticity and thermodynamic properties of U ₃ Si ₂ Al. RSC Advances, 2020, 10, 35049-35056.	1.7	9
79	Theoretical study on the electrical and mechanical properties of MXene multilayer structures through strain regulation. Chemical Physics Letters, 2020, 760, 137997.	1.2	13
80	Influence of porosity on anisotropic thermal conductivity of SiC fiber reinforced SiC matrix composite: A microscopic modeling study. Ceramics International, 2020, 46, 28693-28700.	2.3	17
81	Theoretical investigations on structural and thermo-mechanical properties of layered ternary carbide Th-Al-C systems. Journal of Nuclear Materials, 2020, 540, 152358.	1.3	7
82	High-strength SiC joints with a novel in-situ formed SiC/Al ₄ SiC ₄ joining filler. Journal of the European Ceramic Society, 2020, 40, 5172-5179.	2.8	16
83	Fabrication of SiCw/Ti ₃ SiC ₂ composites with improved thermal conductivity and mechanical properties using spark plasma sintering. Journal of Advanced Ceramics, 2020, 9, 462-470.	8.9	49
84	Amorphous carbon to graphene: Carbon diffusion via nickel catalyst. Materials Letters, 2020, 278, 128468.	1.3	3
85	In Situ Electrochemical Synthesis of MXenes without Acid/Alkali Usage in/for an Aqueous Zinc Ion Battery. Advanced Energy Materials, 2020, 10, 2001791.	10.2	128
86	Preparation of SiC ceramic fiber from a photosensitive polycarbosilane. Ceramics International, 2020, 46, 28300-28307.	2.3	14
87	Vertically Aligned Sn ⁴⁺ Preintercalated Ti ₂ CT _X MXene Sphere with Enhanced Zn Ion Transportation and Superior Cycle Lifespan. Advanced Energy Materials, 2020, 10, 2001394.	10.2	127
88	Theoretical exploration on the vibrational and mechanical properties of M ₃ C ₂ /M ₃ C ₂ T ₂ MXenes. International Journal of Quantum Chemistry, 2020, 120, e26409.	1.0	10
89	Stabilization of a molecular water oxidation catalyst on a dye-sensitized photoanode by a Pyridyl anchor. Nature Communications, 2020, 11, 4610.	5.8	38
90	The compositional dependence of structural stability and resulting properties for Mn ₁ CnT ₂ (M = Sc, Tj ETQq0 0 0 rgBT / Overlock 10 T Technology, 2020, 9, 14979-14989.	2.6	11

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91	Ion-beam-assisted characterization of quinoline-insoluble particles in nuclear graphite. Nuclear Science and Techniques/Hewuli, 2020, 31, 1.	1.3	10
92	2D foaming of ultrathin MXene sheets with highly conductive silver nanowires for wearable electromagnetic interference shielding applications owing to multiple reflections within created free space. Nano Futures, 2020, 4, 035002.	1.0	16
93	Mesoporous Polymer-Derived Ceramic Membranes for Water Purification via a Self-Sacrificed Template. ACS Omega, 2020, 5, 11100-11105.	1.6	19
94	Insight into Adsorption Performance and Mechanism on Efficient Removal of Methylene Blue by Accordion-like V_2CT_x MXene. Journal of Physical Chemistry Letters, 2020, 11, 4253-4260.	2.1	45
95	A molecular tandem cell for efficient solar water splitting. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13256-13260.	3.3	28
96	The application of molecular simulation in ash chemistry of coal. Chinese Journal of Chemical Engineering, 2020, 28, 2723-2732.	1.7	9
97	Synthesis of cyano-polycarbosilane and investigation of its pyrolysis process. Journal of the European Ceramic Society, 2020, 40, 5226-5237.	2.8	13
98	Ti ₃ AlC ₂ , a candidate structural material for innovative nuclear energy system: The microstructure phase transformation and defect evolution induced by energetic heavy-ion irradiation. Acta Materialia, 2020, 189, 188-203.	3.8	41
99	The role of Hume-Rothery's rules play in the MAX phases formability. Materialia, 2020, 12, 100810.	1.3	22
100	The role of nuclear charges in unifying the descriptions of neural networks (NN)-based force fields. Materials Letters, 2020, 276, 128262.	1.3	0
101	Preparation of highly porous SiC via ceramic precursor conversion and evaluation of its thermal insulation performance. Advances in Applied Ceramics, 2020, 119, 398-406.	0.6	6
102	Multimachine Communication Network That Mimics the Adaptive Immune Response. Journal of the American Chemical Society, 2020, 142, 3851-3861.	6.6	18
103	Thermodynamic description of the Dy-Si-C system in silicon carbide ceramics. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 68, 101738.	0.7	9
104	Mechanism of Al on FeCrAl steam oxidation behavior and molecular dynamics simulations. Journal of Alloys and Compounds, 2020, 828, 154310.	2.8	44
105	Electric Field Effect on the Reactivity of Solid State Materials: The Case of Single Layer Graphene. Advanced Functional Materials, 2020, 30, 1909269.	7.8	10
106	Preparation of Ti ₃ C ₂ T _x /NiZn Ferrite Hybrids with Improved Electromagnetic Properties. Materials, 2020, 13, 820.	1.3	6
107	Preparation and stereolithography of SiC ceramic precursor with high photosensitivity and ceramic yield. Ceramics International, 2020, 46, 13066-13072.	2.3	39
108	Thermodynamic descriptions of the light rare-earth elements in silicon carbide ceramics. Journal of the American Ceramic Society, 2020, 103, 3812-3825.	1.9	16

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127	Developing a liquid and curable two-component precursor system for fabrication of SiC(N)-based composites. <i>Ceramics International</i> , 2019, 45, 24007-24013.	2.3	3
128	Two-Dimensional Hydroxyl-Functionalized and Carbon-Deficient Scandium Carbide, ScC _x OH, a Direct Band Gap Semiconductor. <i>ACS Nano</i> , 2019, 13, 1195-1203.	7.3	30
129	Crosslinking kinetics of polycarbosilane precursor in ozone atmosphere and the formation mechanism of continuous hollow SiC fiber. <i>Journal of the European Ceramic Society</i> , 2019, 39, 2028-2035.	2.8	15
130	Irradiation behavior of Cf/SiC composite with titanium carbide (TiC)-based interphase. <i>Journal of Nuclear Materials</i> , 2019, 523, 10-15.	1.3	3
131	A Wholly Degradable, Rechargeable Zn-Ti ₃ C ₂ MXene Capacitor with Superior Anti-Self-Discharge Function. <i>ACS Nano</i> , 2019, 13, 8275-8283.	7.3	224
132	First-principles study of the electronic, optical and transport of few-layer semiconducting MXene. <i>Computational Materials Science</i> , 2019, 168, 137-143.	1.4	26
133	Effects of aluminium content on the molecular structure and properties of polyaluminocarbosilane for SiC fibre fabrication. <i>Ceramics International</i> , 2019, 45, 16380-16386.	2.3	13
134	Porosity analysis of superfine-grain graphite IG-110 and ultrafine-grain graphite T220. <i>Materials Science and Technology</i> , 2019, 35, 962-968.	0.8	12
135	Rheokinetics and Characteristics of Resulted Gels during Isothermal Gelation Process for Lower Concentrated PAN/DMSO/H ₂ O Solutions. <i>Polymer Science - Series B</i> , 2019, 61, 77-85.	0.3	1
136	Electronic structures, mechanical properties and defect formation energies of U ₃ Si ₅ from density functional theory calculations. <i>Progress in Nuclear Energy</i> , 2019, 116, 87-94.	1.3	6
137	Mutual Identification between the Pressure-Induced Superlubricity and the Image Contrast Inversion of Carbon Nanostructures from AFM Technology. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1498-1504.	2.1	13
138	Tuning the Electrical Conductivity of Ti ₂ CO ₂ MXene by Varying the Layer Thickness and Applying Strains. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6802-6811.	1.5	49
139	Disorder in Mn _{1+x} AX _n phases at the atomic scale. <i>Nature Communications</i> , 2019, 10, 622.	5.8	41
140	Element Replacement Approach by Reaction with Lewis Acidic Molten Salts to Synthesize Nanolaminated MAX Phases and MXenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 4730-4737.	6.6	811
141	First-principles study on the stability and properties of $\hat{1}^2$ -SiC/M+1AlC (M=Sc, Ti, V, Cr, Zr, Nb, Mo, Hf, Ta;) Tj ETQq1 1.0.784314 rgBT /OV	1.9	5
142	Interface modification of carbon fibers with TiC/Ti ₂ AlC coating and its effect on the tensile strength. <i>Ceramics International</i> , 2019, 45, 4661-4666.	2.3	13
143	Synthesis of Zr ₂ Al ₃ C ₄ coatings on zirconium-alloy substrates with Al C/Si interlayers as diffusion barriers. <i>Vacuum</i> , 2019, 160, 128-132.	1.6	5
144	A new precursor of liquid and curable polysiloxane for highly cost-efficient SiOC-based composites. <i>Ceramics International</i> , 2019, 45, 7044-7048.	2.3	12

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145	Pore structure evolution of IG-110 graphite during argon ion irradiation at 600°C. Journal of Materials Science, 2019, 54, 6098-6110.	1.7	9
146	Comparison of irradiation tolerance of two MAX phases-Ti ₄ AlN ₃ and Ti ₂ AlN. Journal of Nuclear Materials, 2019, 513, 120-128.	1.3	7
147	Adsorption Behaviors and Phase Equilibria for Clathrate Hydrates of Sulfur- and Nitrogen-Containing Small Molecules. Journal of Physical Chemistry C, 2019, 123, 2691-2702.	1.5	10
148	Development of interatomic potentials for Fe-Cr-Al alloy with the particle swarm optimization method. Journal of Alloys and Compounds, 2019, 780, 881-887.	2.8	22
149	Viscosity temperature properties from molecular dynamics simulation: The role of calcium oxide, sodium oxide and ferrous oxide. Fuel, 2019, 237, 163-169.	3.4	28
150	Design of the Nature-inspired Algorithms Library and Its Significance for New Materials Research and Development. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2019, 34, 27.	0.6	1
151	Synthesis of Novel MAX Phase Ti ₃ Zn ₂ via A-site-element-substitution Approach. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2019, 34, 60.	0.6	21
152	Synthesis and Theoretical Study of Conductive Mo _{1.33} CT ₂ MXene. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2019, 34, 775.	0.6	2
153	Mechanistic Quantification of Thermodynamic Stability and Mechanical Strength for Two-Dimensional Transition-Metal Carbides. Journal of Physical Chemistry C, 2018, 122, 4710-4722.	1.5	28
154	Structural Distortion and Defects in Ti ₃ AlC ₂ irradiated by Fe and He Ions. Chinese Physics Letters, 2018, 35, 026102.	1.3	4
155	Residual thermal stress of SiC/Ti ₃ SiC ₂ /SiC joints calculation and relaxed by postannealing. International Journal of Applied Ceramic Technology, 2018, 15, 1157-1165.	1.1	17
156	Phonon-mediated stabilization and softening of 2D transition metal carbides: case studies of Ti ₂ CO ₂ and Mo ₂ CO ₂ . Physical Chemistry Chemical Physics, 2018, 20, 14608-14618.	1.3	8
157	Bipolar magnetic semiconductors among intermediate states during the conversion from Sc ₂ C(OH) ₂ to Sc ₂ CO ₂ MXene. Nanoscale, 2018, 10, 8763-8771.	2.8	27
158	Synthesis and properties of conductive B ₄ C ceramic composites with TiB ₂ grain network. Journal of the American Ceramic Society, 2018, 101, 3780-3786.	1.9	38
159	Novel Scale-Like Structures of Graphite/TiC/Ti ₃ C ₂ Hybrids for Electromagnetic Absorption. Advanced Electronic Materials, 2018, 4, 1700617.	2.6	86
160	Copper-SiC whiskers composites with interface optimized by Ti ₃ SiC ₂ . Journal of Materials Science, 2018, 53, 9806-9815.	1.7	14
161	Improved oxidation resistance of zirconium at high-temperature steam by magnetron sputtered Cr-Al-Si ternary coatings. Surface and Coatings Technology, 2018, 350, 841-847.	2.2	28
162	Coal ash fusion properties from molecular dynamics simulation: the role of calcium oxide. Fuel, 2018, 216, 760-767.	3.4	35

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163	The influences of carbon nanotubes introduced in three different phases of carbon fiber/pyrolytic carbon/silicon carbide composites on microstructure and properties of their composites. Carbon, 2018, 129, 409-414.	5.4	23
164	Abnormal grain growth of UO ₂ with pores in the final stage of sintering: A phase field study. Computational Materials Science, 2018, 145, 24-34.	1.4	7
165	How Vertical Compression Triggers Lateral Interlayer Slide for Metallic Molybdenum Disulfide?. Tribology Letters, 2018, 66, 1.	1.2	13
166	Superlubricity Enabled by Pressure-Induced Friction Collapse. Journal of Physical Chemistry Letters, 2018, 9, 2554-2559.	2.1	79
167	Low-temperature synthesis of uranium monocarbide by a Pechini-type in situ polymerizable complex method. Journal of the American Ceramic Society, 2018, 101, 2786-2795.	1.9	0
168	Opening Magnesium Storage Capability of Two-Dimensional MXene by Intercalation of Cationic Surfactant. ACS Nano, 2018, 12, 3733-3740.	7.3	208
169	The effect of He bubbles on the swelling and hardening of UNS N10003 alloy. Journal of Alloys and Compounds, 2018, 746, 153-158.	2.8	24
170	The critical issues of SiC materials for future nuclear systems. Scripta Materialia, 2018, 143, 149-153.	2.6	127
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