

Xin-mei Hou

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#	Paper	IF	Citations
152	Superior Photodetectors Based on All-Inorganic Perovskite CsPbI ₃ Nanorods with Ultrafast Response and High Stability. <i>ACS Nano</i> , 2018 , 12, 1611-1617	16.7	169
151	Study on CO ₂ gasification properties and kinetics of biomass chars and anthracite char. <i>Bioresource Technology</i> , 2015 , 177, 66-73	11	129
150	Preparation of flake hexagonal BN and its application in electrochemical detection of ascorbic acid, dopamine and uric acid. <i>Sensors and Actuators B: Chemical</i> , 2018 , 260, 346-356	8.5	76
149	B-doped 3C-SiC nanowires with a finned microstructure for efficient visible light-driven photocatalytic hydrogen production. <i>Nanoscale</i> , 2015 , 7, 8955-61	7.7	62
148	Kinetics of High-Temperature Oxidation of Inorganic Nonmetallic Materials. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 585-594	3.8	55
147	Efficient synergy of photocatalysis and adsorption of hexavalent chromium and rhodamine B over Al ₄ SiC ₄ /rGO hybrid photocatalyst under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 548-560	21.8	53
146	Electrochemical detection mechanism of dopamine and uric acid on titanium nitride-reduced graphene oxide composite with and without ascorbic acid. <i>Sensors and Actuators B: Chemical</i> , 2019 , 298, 126872	8.5	43
145	Porous hexagonal boron nitride whiskers fabricated at low temperature for effective removal of organic pollutants from water. <i>Ceramics International</i> , 2016 , 42, 8754-8762	5.1	42
144	Recent progress in SiC nanowires as electromagnetic microwaves absorbing materials. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152388	5.7	42
143	A Facile Synthesis of a Three-Dimensional Flexible 3C-SiC Sponge and Its Wettability. <i>Crystal Growth and Design</i> , 2014 , 14, 4624-4630	3.5	41
142	Improved microwave absorption performance of modified SiC in the 2-18 GHz frequency range. <i>CrystEngComm</i> , 2017 , 19, 519-527	3.3	39
141	A simple model for the oxidation of carbon-containing composites. <i>Corrosion Science</i> , 2010 , 52, 1093-1097	7.8	39
140	Isothermal oxidation mechanism of NbTi ₄ Al ₂ Zr alloy at 700-1200°C: Diffusion and interface reaction. <i>Corrosion Science</i> , 2015 , 96, 186-195	6.8	38
139	General Strategy for Rapid Production of Low-Dimensional All-Inorganic CsPbBr ₃ Perovskite Nanocrystals with Controlled Dimensionalities and Sizes. <i>Inorganic Chemistry</i> , 2018 , 57, 1598-1603	5.1	38
138	Bandgap alignment of CsPbI ₃ perovskites with synergistically enhanced stability and optical performance via B-site minor doping. <i>Nano Energy</i> , 2019 , 61, 389-396	17.1	37
137	Facile fabrication of three-dimensional interconnected nanoporous N-TiO ₂ for efficient photoelectrochemical water splitting. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 955-960	9.1	37
136	High-Performance SiC Nanobelt Photodetectors with Long-Term Stability Against 300 °C up to 180 Days. <i>Advanced Functional Materials</i> , 2019 , 29, 1806250	15.6	36

135	Understanding of Au-CeO ₂ interface and its role in catalytic oxidation of formaldehyde. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118138	21.8	36
134	Isothermal oxidation mechanism of a newly developed NbTiCrAlWMoHf alloy at 800±200 °C. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016 , 54, 322-329	4.1	35
133	A new measurement and treatment for kinetics of isothermal oxidation of Si ₃ N ₄ . <i>Journal of Alloys and Compounds</i> , 2008 , 459, 123-129	5.7	35
132	Organic intercalation engineering of quasi-2D DionJacobson A ₃ CBi ₃ perovskites. <i>Materials Horizons</i> , 2020 , 7, 1042-1050	14.4	33
131	Bare and boron-doped cubic silicon carbide nanowires for electrochemical detection of nitrite sensitively. <i>Scientific Reports</i> , 2016 , 6, 24872	4.9	31
130	Preparation and properties of hexagonal boron nitride fibers used as high temperature membrane filter. <i>Materials Research Bulletin</i> , 2014 , 49, 39-43	5.1	31
129	Model of oxidation of SiC microparticles at high temperature. <i>Corrosion Science</i> , 2008 , 50, 2367-2371	6.8	30
128	Characterization of Flake Boron Nitride Prepared from the Low Temperature Combustion Synthesized Precursor and Its Application for Dye Adsorption. <i>Coatings</i> , 2018 , 8, 214	2.9	29
127	Tunable preparation of chrysanthemum-like titanium nitride as flexible electrode materials for ultrafast-charging/discharging and excellent stable supercapacitors. <i>Journal of Power Sources</i> , 2018 , 396, 319-326	8.9	29
126	Simultaneously electrochemical detection of uric acid and ascorbic acid using glassy carbon electrode modified with chrysanthemum-like titanium nitride. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 803, 11-18	4.1	29
125	Oxidation kinetics of aluminum nitride at different oxidizing atmosphere. <i>Journal of Alloys and Compounds</i> , 2008 , 465, 90-96	5.7	27
124	Effect of TiO ₂ Addition on Crystallization Characteristics of CaO-Al ₂ O ₃ -based Mould Fluxes for High Al Steel Casting. <i>ISIJ International</i> , 2015 , 55, 830-836	1.7	26
123	Electron-beam irradiation-hard metal-halide perovskite nanocrystals. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10912-10917	13	25
122	A new treatment for kinetics of oxidation of silicon carbide. <i>Ceramics International</i> , 2009 , 35, 603-607	5.1	25
121	TiN @NiCo ₂ O ₄ coaxial nanowires as supercapacitor electrode materials with improved electrochemical and wide-temperature performance. <i>Journal of Alloys and Compounds</i> , 2017 , 692, 605-613	5.7	23
120	Piezoelectric Nanogenerator Based on In Situ Growth All-Inorganic CsPbBr ₃ Perovskite Nanocrystals in PVDF Fibers with Long-Term Stability. <i>Advanced Functional Materials</i> , 2021 , 31, 2011073	15.6	23
119	The effect of nano-Al ₂ O ₃ additive on early hydration of calcium aluminate cement. <i>Construction and Building Materials</i> , 2018 , 158, 755-760	6.7	23
118	Wurtzite AlN(0001) Surface Oxidation: Hints from Ab Initio Calculations. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30811-30818	9.5	22

117	Facile synthesis of hexagonal boron nitride fibers with uniform morphology. <i>Ceramics International</i> , 2013 , 39, 6427-6431	5.1	22
116	Synergizing the multiple plasmon resonance coupling and quantum effects to obtain enhanced SERS and PEC performance simultaneously on a noble metal-semiconductor substrate. <i>Nanoscale</i> , 2017 , 9, 2376-2384	7.7	21
115	Fabrication and oxidation behavior of Al ₄ SiC ₄ powders. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3145-3154	3.8	21
114	SiC Nanowires with Tunable Hydrophobicity/Hydrophilicity and Their Application as Nanofluids. <i>Langmuir</i> , 2016 , 32, 5909-16	4	21
113	The effective determination of Cd(ii) and Pb(ii) simultaneously based on an aluminum silicon carbide-reduced graphene oxide nanocomposite electrode. <i>Analyst, The</i> , 2017 , 142, 2741-2747	5	20
112	Preparation of nano-TiO ₂ /diatomite-based porous ceramics and their photocatalytic kinetics for formaldehyde degradation. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018 , 25, 73-79	3.1	20
111	Influence of particle size distribution on oxidation behavior of SiC powder. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 166-170	5.7	19
110	The Reaction Mechanism and Kinetics of BN Powder in Wet Air at 1273K. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1877-1882	3.8	18
109	Mass production of Mn ²⁺ -doped CsPbCl ₃ perovskite nanocrystals with high quality and enhanced optical performance. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2641-2647	6.8	18
108	Characterization of modified SiC@SiO ₂ nanocables/MnO ₂ and their potential application as hybrid electrodes for supercapacitors. <i>Dalton Transactions</i> , 2015 , 44, 19974-82	4.3	16
107	Preparation of hexagonal BN whiskers synthesized at low temperature and their application in fabricating an electrochemical nitrite sensor. <i>RSC Advances</i> , 2016 , 6, 27767-27774	3.7	16
106	Microwave absorption properties of SiC@SiO ₂ @Fe ₃ O ₄ hybrids in the 2-18 GHz range. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017 , 24, 804-813	3.1	16
105	Comparison of the Diffusion Control Models for Isothermal Oxidation of SiAlON Powders. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3315-3319	3.8	16
104	Morphological development and oxidation of elongated SiAlON material. <i>Corrosion Science</i> , 2011 , 53, 2051-2057	6.8	15
103	The oxidation kinetics of multi-walled carbon nanotubes. <i>Corrosion Science</i> , 2010 , 52, 1771-1776	6.8	15
102	Corrosion behavior of porous silicon nitride ceramics in different atmospheres. <i>Ceramics International</i> , 2017 , 43, 4344-4352	5.1	14
101	Single crystalline 3C-SiC whiskers used for electrochemical detection of nitrite under neutral condition. <i>Ionics</i> , 2016 , 22, 1493-1500	2.7	14
100	Kinetics of Reduction of Titano-magnetite Powder by H ₂ . <i>High Temperature Materials and Processes</i> , 2013 , 32, 229-236	0.9	14

99	Construction of layered h-BN/TiO ₂ hetero-structure and probing of the synergetic photocatalytic effect. <i>Science China Materials</i> , 2020 , 63, 276-287	7.1	14
98	Piezoelectric nanogenerators with high performance against harsh conditions based on tunable N doped 4H-SiC nanowire arrays. <i>Nano Energy</i> , 2021 , 83, 105826	17.1	14
97	Characterization and properties of rapid fabrication of network porous Si ₃ N ₄ ceramics. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 717-723	5.7	13
96	Phase Equilibria Studies in the SiO ₂ -K ₂ O-CaO System. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 1690-1696	2.5	13
95	Synthesis of Al ₄ SiC ₄ powders via carbothermic reduction: Reaction and grain growth mechanisms. <i>Journal of Advanced Ceramics</i> , 2017 , 6, 351-359	10.7	13
94	A new approach to interpreting the parabolic and non-parabolic oxidation behaviour of hot-pressed SiAlON ceramics. <i>Corrosion Science</i> , 2012 , 58, 278-283	6.8	13
93	New Perspectives on the Gas-Solid Reaction of Si ₃ N ₄ Powder in Wet Air at High Temperature. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2699-2705	3.8	13
92	Enhancing photoluminescence properties of SiC/SiO ₂ coaxial nanocables by making oxygen vacancies. <i>Dalton Transactions</i> , 2016 , 45, 13503-8	4.3	13
91	Molten salt-enhanced production of hydrogen by using skimmed hot dross from aluminum remelting at high temperature. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 12956-12966	6.7	12
90	Formation mechanism of elongated Si ₃ N ₄ crystals in FeSi ₃ N ₄ composite via flash combustion. <i>Ceramics International</i> , 2018 , 44, 9395-9400	5.1	12
89	Single crystalline SiAlON nanowhiskers: preparation and enhanced properties at high temperature. <i>Dalton Transactions</i> , 2012 , 41, 7127-33	4.3	12
88	First-Principles Optimization of Out-of-Plane Charge Transport in DionJacobson CsPbI ₃ Perovskites with Conjugated Aromatic Spacers. <i>Advanced Functional Materials</i> , 2021 , 31, 2102330	15.6	12
87	An amperometric glucose enzyme biosensor based on porous hexagonal boron nitride whiskers decorated with Pt nanoparticles. <i>RSC Advances</i> , 2016 , 6, 92748-92753	3.7	12
86	Large scale fabrication of dumbbell-shaped biomimetic SiC/SiO ₂ fibers. <i>CrystEngComm</i> , 2015 , 17, 9318-9332	3.3	11
85	Morphology characterization of periclase-mercurite refractories by reaction sintering. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015 , 22, 1219-1224	3.1	11
84	Synthesis of titanium nitride nanopowder at low temperature from the combustion synthesized precursor and the thermal stability. <i>Journal of Alloys and Compounds</i> , 2014 , 615, 838-842	5.7	11
83	Cadmium sulfide with tunable morphologies: Preparation and visible-light driven photocatalytic performance. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 93, 116-123	3	11
82	Thermal oxidation of SiAlON powders synthesized from coal gangue. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2011 , 18, 77-82	3.1	11

81	Enhancing the Stability of Orthorhombic CsSnI Perovskite Oriented EConjugated Ligand Passivation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34462-34469	9.5	11
80	Dissolution and diffusion of TiO ₂ in the CaO-Al ₂ O ₃ -SiO ₂ slag. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014 , 21, 345-352	3.1	10
79	Kinetics of Thermal Oxidation of Titanium Nitride Powder at Different Oxidizing Atmospheres. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 570-575	3.8	10
78	The Model for Oxidation Kinetics of Titanium Nitride Coatings. <i>International Journal of Applied Ceramic Technology</i> , 2010 , 7, 248-255	2	10
77	Morphological development and oxidation mechanisms of aluminum nitride whiskers. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 963-968	3.3	10
76	Electrostatic interaction assisted synthesis of a CdS/BCN heterostructure with enhanced photocatalytic effects. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1803-1810	7.1	10
75	Effect of incorporation of nitrogen on calcium hexaaluminate. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 6155-6161	6	10
74	Some New Perspective on the Reaction Mechanism of MgO-Bi ₂ O ₃ -H ₂ O System. <i>International Journal of Applied Ceramic Technology</i> , 2016 , 13, 1164-1172	2	10
73	Individual and Simultaneous Voltammetric Determination of Cd(II), Cu(II) and Pb(II) Applying Amino Functionalized Fe ₃ O ₄ @Carbon Microspheres Modified Electrode. <i>Electroanalysis</i> , 2019 , 31, 1448-1457	3	9
72	Fabrication of ordered mullite nanowhisker array with surface enhanced Raman scattering effect. <i>Scientific Reports</i> , 2015 , 5, 9690	4.9	9
71	Preparation of TiO _x Ny/TiN composites for photocatalytic hydrogen evolution under visible light. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28782-8	3.6	9
70	Molten salt synthesis of mullite nanowhiskers using different silica sources. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015 , 22, 884-891	3.1	9
69	Oxidation kinetics of TiN-containing composites. <i>Ceramics International</i> , 2014 , 40, 961-966	5.1	9
68	Morphological evolution of porous silicon nitride ceramics at initial stage when exposed to water vapor. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 840-847	5.7	9
67	Investigation of the effects of temperature and oxygen partial pressure on oxidation of zirconium carbide using different kinetics models. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2395-2400	5.7	9
66	Evolution of aluminum hydroxides at the initial stage of aluminum nitride powder hydrolysis. <i>Ceramics International</i> , 2016 , 42, 11429-11434	5.1	9
65	The oxidation and thermal stability of two-dimensional transition metal carbides and/or carbonitrides (MXenes) and the improvement based on their surface state. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 2164-2182	6.8	9
64	A novel two-stage synthesis for 3C-BiC nanowires by carbothermic reduction and their photoluminescence properties. <i>Journal of Materials Science</i> , 2019 , 54, 12450-12462	4.3	8

63	Quantitative investigation of oxidation behavior of boron carbide powders in air. <i>Journal of Alloys and Compounds</i> , 2013 , 573, 182-186	5.7	8
62	Kinetics of non-isothermal oxidation of AlN powder. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 629-633	6	8
61	A Comparison of Oxidation Kinetics of O ² -SiALON and βSiALON Powders Synthesized from Bauxite. <i>International Journal of Applied Ceramic Technology</i> , 2008 , 5, 529-536	2	8
60	In situ reduced MXene/AuNPs composite toward enhanced charging/discharging and specific capacitance. <i>Journal of Advanced Ceramics</i> , 2021 , 10, 1061	10.7	8
59	The Reaction Behavior of βSi ₃ N ₄ Powder at 1100–1500 °C Under Different Oxidizing Conditions. <i>Oxidation of Metals</i> , 2015 , 84, 169-184	1.6	7
58	Preparation and photo-catalytic activity of TiO ₂ -coated medical stone-based porous ceramics. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013 , 20, 593-597	3.1	7
57	Reaction mechanisms for 0.5Li ₂ MnO ₃ ·0.5LiMn _{0.5} Ni _{0.5} O ₂ precursor prepared by low-heating solid state reaction. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012 , 19, 856-862	3.1	7
56	Adsorption and Reaction of Water on the AlN(0001) Surface from First Principles. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5460-5468	3.8	7
55	Template free synthesis of highly ordered mullite nanowhiskers with exceptional photoluminescence. <i>Ceramics International</i> , 2015 , 41, 9560-9566	5.1	6
54	The Effect of Water Vapor and Temperature on the Reaction Behavior of AlN Powder at 1273 K to 1423 K (1000 °C to 1150 °C). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 1621-1627	2.3	6
53	Improvement in surface-enhanced Raman spectroscopy from cubic SiC semiconductor nanowhiskers by adjustment of energy levels. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27572-27576	2.6	6
52	Synthesis parameter dependence of the electrochemical performance of solvothermally synthesized Li ₄ Ti ₅ O ₁₂ . <i>Materials for Renewable and Sustainable Energy</i> , 2014 , 3, 1	4.7	6
51	Oxidation Behavior and Mechanism of Al ₄ SiC ₄ in MgO-C-Al ₄ SiC ₄ System. <i>Coatings</i> , 2017 , 7, 85	2.9	6
50	Corrosion resistance of AlN/SiC/TiB ₂ composite in air. <i>Composites Science and Technology</i> , 2009 , 69, 2527-2531	8.6	6
49	A wide range photoluminescence intensity-based temperature sensor developed with BN quantum dots and the photoluminescence mechanism. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127353	8.5	6
48	Linearly Tailored Work Function of Orthorhombic CsSnI ₃ Perovskites. <i>ACS Energy Letters</i> , 2021 , 6, 2328-2335	3.35	6
47	Tunable fabrication of single-crystalline CsPbI ₃ nanobelts and their application as photodetectors. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021 , 28, 1030-1037	3.1	6
46	Progress in cognition of gas-solid interface reaction for non-oxide ceramics at high temperature. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2021 , 46, 218-250	10.1	6

45	Morphological Evolution of Low-Grade Silica Fume at Elevated Temperature. <i>High Temperature Materials and Processes</i> , 2017 , 36, 607-613	0.9	5
44	Characterization and properties of silicon carbide fibers with self-standing membrane structure. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 135-141	5.7	5
43	Improvement of thermal shock performance by residual stress field toughening in periclase-hercynite refractories. <i>Ceramics International</i> , 2018 , 44, 24-31	5.1	5
42	Controllable Preparation of Al ₂ O ₃ -MgO/Al ₂ O ₃ -CaO/Al ₂ O ₃ (AMC) Composite with Improved Slag Penetration Resistance. <i>International Journal of Applied Ceramic Technology</i> , 2016 , 13, 33-40	2	5
41	Selective Determination of Copper (II) Based on Aluminum Silicon Carbide Nanoparticles Modified Glassy Carbon Electrode by Square Wave Stripping Voltammetry. <i>Electroanalysis</i> , 2017 , 29, 2224-2231	3	5
40	Pt-Co Alloys-Loaded Cubic SiC Electrode with Improved Photoelectrocatalysis Property. <i>Materials</i> , 2017 , 10,	3.5	5
39	A theoretical analysis for oxidation of titanium carbide. <i>Journal of Materials Science</i> , 2008 , 43, 6193-6199	4.3	5
38	Tunable fabrication and photoluminescence property of SiC nanowires with different microstructures. <i>Applied Surface Science</i> , 2020 , 506, 144979	6.7	5
37	Characterization and mechanism of early hydration of calcium aluminate cement with anatase-TiO ₂ nanospheres additive. <i>Construction and Building Materials</i> , 2020 , 261, 119922	6.7	5
36	Oxidation mechanism of MAX phases (Ti ₃ AlC ₂ powders) with and without Sn doping. <i>Corrosion Science</i> , 2021 , 180, 109197	6.8	5
35	Supercapacitor electrode based on few-layer h-BNNSs/rGO composite for wide-temperature-range operation with robust stable cycling performance. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020 , 27, 220-231	3.1	4
34	A titanium nitride nanotube array for potentiometric sensing of pH. <i>Analyst, The</i> , 2016 , 141, 1693-9	5	4
33	Fabrication and characterization of ultra light SiC whiskers decorated by RuO ₂ nanoparticles as hybrid supercapacitors. <i>RSC Advances</i> , 2016 , 6, 19626-19631	3.7	4
32	Effect of Temperature on the Initial Oxidation Behavior and Kinetics of 5Cr Ferritic Steel in Air. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 5169-5179	2.3	4
31	Comparison of the Reaction Behavior of Hexagonal Silicon Carbide Powder in Different Atmospheres. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 5122-5131	2.3	4
30	Effect of SiO ₂ addition on the synthesis of hercynite with high purity. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 595-600	1	4
29	Simultaneous determination of Cd(II) and Pb(II) using electrode modified by FeAl ₂ O ₄ -AlOOH-reduced graphene oxide hybrids. <i>Ionics</i> , 2019 , 25, 2351-2360	2.7	4
28	Preparation of high-purity Si ₃ N ₄ nano-powder by precursor-carbothermal reduction and nitridation. <i>Ceramics International</i> , 2019 , 45, 6335-6339	5.1	4

27	Preparation, growth mechanism and slag resistance behavior of ternary Ca ₂ Mg ₂ Al ₂₈ O ₄₆ (C ₂ M ₂ A ₁₄). <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 1126-1137	2	4
26	Reaction and formation mechanism of Fe-Si ₃ N ₄ composite prepared by flash combustion synthesis. <i>Ceramics International</i> , 2018 , 44, 22777-22783	5.1	4
25	Formation mechanism of large size plate-like Al ₄ SiC ₄ grains by a carbothermal reduction method. <i>CrystEngComm</i> , 2018 , 20, 1399-1404	3.3	3
24	The Reaction Behavior of AlN Powder in Wet Air Between 1573 K and 1773 K. <i>Jom</i> , 2016 , 68, 675-681	2.1	3
23	Effect of Water-Vapor Content on Reaction Rate of Hexagonal BN Powder at 1273 K. <i>High Temperature Materials and Processes</i> , 2013 , 32, 275-280	0.9	3
22	Effect of Sn doping concentration on the oxidation of Al-containing MAX phase (Ti ₃ AlC ₂) combining simulation with experiment. <i>Fundamental Research</i> , 2022 , 2, 114-122		3
21	Preparation of Zr ⁴⁺ doped calcium hexaaluminate with improved slag penetration resistance. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4854-4866	3.8	3
20	Effect of temperature on the initial reaction behavior of MAB phases (MoAlB powders) at 700-1000 °C in air. <i>Ceramics International</i> , 2021 , 47, 20700-20705	5.1	3
19	High-performance chromite by structure stabilization treatment. <i>Journal of Iron and Steel Research International</i> , 2020 , 27, 169-179	1.2	2
18	Thermal and transport properties of La _{2-x} NdxMo ₂ O ₉ . <i>Journal of Rare Earths</i> , 2016 , 34, 1024-1031	3.7	2
17	The morphological evolution of the oxide products of Si ₃ N ₄ /Al ₂ O ₃ composite refractory under different oxidizing conditions. <i>Journal of the Ceramic Society of Japan</i> , 2017 , 125, 661-669	1	2
16	Ab initio calculation of the evolution of [SiN ₄ -nOn] tetrahedron during Si ₃ N ₄ (0001) surface oxidation. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2808-2816	3.8	2
15	Neodymium-decorated graphene as an efficient electrocatalyst for hydrogen production. <i>Nanoscale</i> , 2021 , 13, 15471-15480	7.7	2
14	Ultra-Stable and Durable Piezoelectric Nanogenerator with All-Weather Service Capability Based on N-Doped 4H-SiC Nanohole Arrays.. <i>Nano-Micro Letters</i> , 2021 , 14, 30	19.5	2
13	Boron doping induced thermal conductivity enhancement of water-based 3C-Si(B)C nanofluids. <i>Nanotechnology</i> , 2018 , 29, 355702	3.4	1
12	Morphology-controlled Synthesis of Hexagonal AlN Whiskers by Direct Nitridation of Aluminum and Alumina Mixture. <i>High Temperature Materials and Processes</i> , 2014 , 33, 385-389	0.9	1
11	A new kinetic treatment of the oxidation of SiAlON powder. <i>International Journal of Materials Research</i> , 2008 , 99, 1346-1351	0.5	1
10	Review of electrochemical degradation of phenolic compounds. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021 , 28, 1413-1428	3.1	1

9	Reply to "Comment on Superior Photodetectors Based on All-Inorganic Perovskite CsPbI ₃ Nanorods with Ultrafast Response and High Stability". <i>ACS Nano</i> , 2018 , 12, 10571	16.7	1
8	Fabrication of Pd/CeO ₂ nanocubes as highly efficient catalysts for degradation of formaldehyde at room temperature. <i>Catalysis Science and Technology</i> ,	5.5	1
7	Computational Discovery of the Qualitative Electronegativity-Wettability Relationship in High-Temperature Ceramics-Supported TiAl Alloys. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 2207-2213	3.8	0
6	Mild fabrication of SiC/C nanosheets with prolonged cycling stability as supercapacitor. <i>Journal of Materials Science and Technology</i> , 2022 , 110, 178-186	9.1	0
5	New approach to evaluate the influence of compressive stress on the oxidation of non-oxide ceramics. <i>Ceramics International</i> , 2021 , 48, 2317-2317	5.1	0
4	Effect and mechanism of nano-Ca ₁₀ (PO ₄) ₆ (OH) ₂ additive on compressive strength of calcium aluminate cement at high temperature. <i>Journal of Iron and Steel Research International</i> , 1	1.2	0
3	Effectively controlling the crystal growth of Cr ₂ O ₃ using SiO ₂ as the second phase. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 2187	3.8	0
2	New design concept for stable Silicon nitride based on the initial oxidation evolution at the atomic and molecular levels. <i>Journal of Materials Science and Technology</i> , 2022 , 122, 156-164	9.1	0
1	Quantitative investigation of the oxidation kinetics of magnesia/carbon composite. <i>Journal of the Ceramic Society of Japan</i> , 2009 , 117, 1293-1296	1	