

Jun-Hong Chen

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78
papers

866
citations

16
h-index

24
g-index

81
ext. papers

1,182
ext. citations

4.4
avg, IF

4.47
L-index

#	Paper	IF	Citations
78	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
77	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
76	Recent progress in SiC nanowires as electromagnetic microwaves absorbing materials. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152388	5.7	42
75	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
74	Improved microwave absorption performance of modified SiC in the 2–8 GHz frequency range. <i>CrystEngComm</i> , 2017 , 19, 519-527	3.3	39
73	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
72	Bare and boron-doped cubic silicon carbide nanowires for electrochemical detection of nitrite sensitively. <i>Scientific Reports</i> , 2016 , 6, 24872	4.9	31
71	Synthesis of hercynite by reaction sintering. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 259-263	6	30
70	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
69	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
68	SiC Nanowires with Tunable Hydrophobicity/Hydrophilicity and Their Application as Nanofluids. <i>Langmuir</i> , 2016 , 32, 5909-16	4	21
67	New synthetic route to Al ₄ O ₄ C reinforced Al ₂ O ₃ composite materials. <i>Solid State Sciences</i> , 2015 , 46, 33-36	3.4	21
66	The effective determination of Cd(II) and Pb(II) simultaneously based on an aluminum silicon carbide-reduced graphene oxide nanocomposite electrode. <i>Analyst</i> , 2017 , 142, 2741-2747	5	20
65	In-situ synthesis and reaction mechanism of β-SiAlON in the Al-Si ₃ N ₄ -Al ₂ O ₃ composite material. <i>Ceramics International</i> , 2017 , 43, 1335-1340	5.1	18
64	The kiln coating formation mechanism of MgO@Al ₂ O ₄ brick. <i>Ceramics International</i> , 2016 , 42, 569-575	5.1	16
63	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
62	Microwave absorption properties of SiC@SiO ₂ @Fe ₃ O ₄ hybrids in the 2–8 GHz range. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017 , 24, 804-813	3.1	16

61	Formation mechanism of Si ₃ N ₄ in reaction-bonded Si ₃ N ₄ -SiC composites. <i>Ceramics International</i> , 2016 , 42, 16448-16452	5.1	15
60	Corrosion behavior of porous silicon nitride ceramics in different atmospheres. <i>Ceramics International</i> , 2017 , 43, 4344-4352	5.1	14
59	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
58	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
57	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
56	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
55	Enhancing photoluminescence properties of SiC/SiO ₂ coaxial nanocables by making oxygen vacancies. <i>Dalton Transactions</i> , 2016 , 45, 13503-8	4.3	13
54	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
53	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
52	Large scale fabrication of dumbbell-shaped biomimetic SiC/SiO ₂ fibers. <i>CrystEngComm</i> , 2015 , 17, 9318-9332	3.32	11
51	Morphology characterization of periclase-silicite refractories by reaction sintering. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015 , 22, 1219-1224	3.1	11
50	Substitution of Ba for Ca in the Structure of CaAl ₁₂ O ₁₉ . <i>Journal of the American Ceramic Society</i> , 2017 , 100, 413-418	3.8	11
49	Morphology of Si ₃ N ₄ in FeSi ₃ N ₄ prepared via flash combustion. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015 , 22, 1322-1327	3.1	10
48	Effect of incorporation of nitrogen on calcium hexaaluminate. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 6155-6161	6	10
47	Some New Perspective on the Reaction Mechanism of MgO-SiO ₂ -H ₂ O System. <i>International Journal of Applied Ceramic Technology</i> , 2016 , 13, 1164-1172	2	10
46	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
45	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
44	Formation mechanism of calcium hexaluminate. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016 , 23, 1225-1230	3.1	8

43	A novel two-stage synthesis for 3CβSiC nanowires by carbothermic reduction and their photoluminescence properties. <i>Journal of Materials Science</i> , 2019 , 54, 12450-12462	4.3	8
42	Physical and mechanical properties of hot-press sintering ternary CM2A8 (CaMg2Al16O27) and C2M2A14 (Ca2Mg2Al28O46) ceramics. <i>Journal of Advanced Ceramics</i> , 2018 , 7, 229-236	10.7	8
41	Synthesis and characterization of a MgO-MgAl ₂ O ₄ -ZrO ₂ composite with a continuous network microstructure. <i>Ceramics International</i> , 2017 , 43, 5914-5919	5.1	7
40	Reaction mechanism for in-situ β-SiAlON formation in Fe ₃ Si ₃ N ₄ /Al ₂ O ₃ composites. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017 , 24, 324-331	3.1	7
39	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	3.6	6
38	Synthesis of CaO/MgO/Al ₂ O ₃ (CM2A8) and its slag resistance mechanism. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 1799-1804	6	6
37	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
36	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
35	Morphological Evolution of Low-Grade Silica Fume at Elevated Temperature. <i>High Temperature Materials and Processes</i> , 2017 , 36, 607-613	0.9	5
34	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
33	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
32	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
31	Pt-Co Alloys-Loaded Cubic SiC Electrode with Improved Photoelectrocatalysis Property. <i>Materials</i> , 2017 , 10,	3.5	5
30	Tunable fabrication and photoluminescence property of SiC nanowires with different microstructures. <i>Applied Surface Science</i> , 2020 , 506, 144979	6.7	5
29	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
28	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
27	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
26	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

25	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
24	Research on the Fe-silicon nitride material self-producing N ₂ at high temperature. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2006 , 13, 78-81		4
23	A Three-Dimensional Porous Conducting Polymer Composite with Ultralow Density and Highly Sensitive Pressure Sensing Properties. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-8	3.2	4
22	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
21	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
20	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
19	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
18	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
17	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
16	Reaction behavior of trace oxygen during combustion of falling FeSi ₇₅ powder in a nitrogen flow. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016 , 23, 959-965	3.1	3
15	High-performance chromite by structure stabilization treatment. <i>Journal of Iron and Steel Research International</i> , 2020 , 27, 169-179	1.2	2
14	Influence of Microstructure on Formation of Deterioration Layer in Periclase-Hercynite Bricks. <i>Refractories and Industrial Ceramics</i> , 2016 , 57, 267-272	1.1	2
13	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
12	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
11	Broadband, High-Efficiency and Wide-Incident-Angle Anomalous Reflection in Groove Metagratings. <i>Annalen Der Physik</i> , 2021 , 533, 2100149	2.6	2
10	Morphology Evolution and Phase Interactions of Fe-containing Si ₃ N ₄ in Vacuum High-temperature Environment. <i>ISIJ International</i> , 2016 , 56, 189-194	1.7	2
9	The spheroidization process of micron-scaled Al ₂ O ₃ powder in hydrothermal method. <i>Ceramics International</i> , 2021 , 47, 22911-22917	5.1	2
8	Boron doping induced thermal conductivity enhancement of water-based 3C-Si(B)C nanofluids. <i>Nanotechnology</i> , 2018 , 29, 355702	3.4	1

7	A New Type Preparation of Ultralight Elastic PAN/Sic Aerogels with High Thermal Stability. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 394, 022035	0.4	1
6	Ultrasensitive Frequency Shifting of Dielectric Mie Resonance near Metallic Substrate. <i>Research</i> , 2022 , 2022, 1-9	7.8	1
5	Formation mechanism of AlON and SiC reinforcements in a phenolic resin-bonded $\text{AlSiAl}_2\text{O}_3$ composite at 1700 °C in flowing N_2 . <i>Journal of Materials Science</i> , 2020 , 55, 5772-5781	4.3	0
4	Effectively controlling the crystal growth of Cr_2O_3 using SiO_2 as the second phase. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 2187	3.8	0
3	Preparation of equiaxed Al_2O_3 by adding oxalic acid. <i>Ceramics International</i> , 2021 , 47, 31512-31517	5.1	0
2	Analysis of Factors that Influence the Evolution of Molten Droplets During Electroslag Remelting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022 , 53, 716-729	2.5	
1	Hierarchical nanoarchitectonics of boehmite: The preparation of three-dimensional flower-like via hydrothermal method without surfactants. <i>Inorganic Chemistry Communication</i> , 2022 , 138, 109306	3.1	