Jun-Hong Chen

List of Publications by Year
in descending order

81	1,456	304368	395343
papers	citations	22 h-index	33 g-index

81	81	81	1335
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent progress in SiC nanowires as electromagnetic microwaves absorbing materials. Journal of Alloys and Compounds, 2020, 815, 152388.	2.8	96
2	B-doped 3C-SiC nanowires with a finned microstructure for efficient visible light-driven photocatalytic hydrogen production. Nanoscale, 2015, 7, 8955-8961.	2.8	80
3	Efficient synergy of photocatalysis and adsorption of hexavalent chromium and rhodamine B over Al4SiC4/rGO hybrid photocatalyst under visible-light irradiation. Applied Catalysis B: Environmental, 2019, 241, 548-560.	10.8	79
4	Improved microwave absorption performance of modified SiC in the 2â€“18 GHz frequency range. CrystEngComm, 2017, 19, 519-527.	1.3	63
5	Highâ€Performance SiC Nanobelt Photodetectors with Longâ€Term Stability Against 300 Â°C up to 180 Days. Advanced Functional Materials, 2019, 29, 1806250.	7.8	54
6	A Facile Synthesis of a Three-Dimensional Flexible 3C-SiC Sponge and Its Wettability. Crystal Growth and Design, 2014, 14, 4624-4630.	1.4	48
7	Synthesis of hercynite by reaction sintering. Journal of the European Ceramic Society, 2011, 31, 259-263.	2.8	42
8	Effect of incorporation of nitrogen on calcium hexaaluminate. Journal of the European Ceramic Society, 2020, 40, 6155-6161.	2.8	38
9	Progress in cognition of gas-solid interface reaction for non-oxide ceramics at high temperature. Critical Reviews in Solid State and Materials Sciences, 2021, 46, 218-250.	6.8	38
10	Bare and boron-doped cubic silicon carbide nanowires for electrochemical detection of nitrite sensitively. Scientific Reports, 2016, 6, 24872.	1.6	34
11	Microwave absorption properties of SiC@SiO2@Fe3O4 hybrids in the 2â€“18 GHz range. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 804-813.	2.4	34
12	Synergizing the multiple plasmon resonance coupling and quantum effects to obtain enhanced SERS and PEC performance simultaneously on a noble metalâ€“semiconductor substrate. Nanoscale, 2017, 9, 2376-2384.	2.8	33
13	Enhancing photoluminescence properties of SiC/SiO₂ coaxial nanocables by making oxygen vacancies. Dalton Transactions, 2016, 45, 13503-13508.	1.6	32
14	Fabrication and oxidation behavior of Al₄SiC₄ powders. Journal of the American Ceramic Society, 2017, 100, 3145-3154.	1.9	31
15	The effective determination of Cd(<scp>ii</scp>) and Pb(<scp>ii</scp>) simultaneously based on an aluminum silicon carbide-reduced graphene oxide nanocomposite electrode. Analyst, The, 2017, 142, 2741-2747.	1.7	28
16	The kiln coating formation mechanism of MgOâ€“FeAl2O4 brick. Ceramics International, 2016, 42, 569-575.	2.3	25
17	New synthetic route to Al4O4C reinforced Alâ€“Al2O3 composite materials. Solid State Sciences, 2015, 46, 33-36.	1.5	24
18	Corrosion behavior of porous silicon nitride ceramics in different atmospheres. Ceramics International, 2017, 43, 4344-4352.	2.3	24

#	Article	IF	Citations
19	Individual and Simultaneous Voltammetric Determination of Cd(II), Cu(II) and Pb(II) Applying Amino Functionalized Fe₃O₄@Carbon Microspheres Modified Electrode. Electroanalysis, 2019, 31, 1448-1457.	1.5	24
20	Supercapacitor electrode based on few-layer h-BNNSs/rGO composite for wide-temperature-range operation with robust stable cycling performance. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 220-231.	2.4	24
21	SiC Nanowires with Tunable Hydrophobicity/Hydrophilicity and Their Application as Nanofluids. Langmuir, 2016, 32, 5909-5916.	1.6	23
22	Morphological evolution of porous silicon nitride ceramics at initial stage when exposed to water vapor. Journal of Alloys and Compounds, 2017, 725, 840-847.	2.8	23
23	Characterization of modified SiC@SiO₂ nanocables/MnO₂ and their potential application as hybrid electrodes for supercapacitors. Dalton Transactions, 2015, 44, 19974-19982.	1.6	22
24	New Perspectives on the Gasâ€“Solid Reaction of Î±â€Si₃N₄ Powder in Wet Air at High Temperature. Journal of the American Ceramic Society, 2016, 99, 2699-2705.	1.9	22
25	Formation mechanism of Si3N4 in reaction-bonded Si3N4-SiC composites. Ceramics International, 2016, 42, 16448-16452.	2.3	22
26	Synthesis of Al4SiC4 powders via carbothermic reduction: Reaction and grain growth mechanisms. Journal of Advanced Ceramics, 2017, 6, 351-359.	8.9	22
27	In-situ synthesis and reaction mechanism of Î²-SiAlON in the Al-Si 3 N 4 -Al 2 O 3 composite material. Ceramics International, 2017, 43, 1335-1340.	2.3	20
28	Substitution of Ba for Ca in the Structure of CaAl₁₂O₁₉. Journal of the American Ceramic Society, 2017, 100, 413-418.	1.9	20
29	Comparison of the Reaction Behavior of Hexagonal Silicon Carbide Powder in Different Atmospheres. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5122-5131.	1.1	19
30	Some New Perspective on the Reaction Mechanism of MgOâ€“SiO₂â€“H₂O System. International Journal of Applied Ceramic Technology, 2016, 13, 1164-1172.	1.1	18
31	Characterization and properties of rapid fabrication of network porous Si 3 N 4 ceramics. Journal of Alloys and Compounds, 2017, 709, 717-723.	2.8	18
32	A novel two-stage synthesis for 3Câ€“SiC nanowires by carbothermic reduction and their photoluminescence properties. Journal of Materials Science, 2019, 54, 12450-12462.	1.7	18
33	Phase Equilibria Studies in the SiO2-K2O-CaO System. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1690-1696.	1.0	17
34	Physical and mechanical properties of hot-press sintering ternary CM2A8 (CaMg2Al16O27) and C2M2A14 (Ca2Mg2Al28O46) ceramics. Journal of Advanced Ceramics, 2018, 7, 229-236.	8.9	17
35	Tunable fabrication and photoluminescence property of SiC nanowires with different microstructures. Applied Surface Science, 2020, 506, 144979.	3.1	17
36	An amperometric glucose enzyme biosensor based on porous hexagonal boron nitride whiskers decorated with Pt nanoparticles. RSC Advances, 2016, 6, 92748-92753.	1.7	16

#	Article	IF	Citations
37	Controllable Preparation of Al₂O₃â€MgOÂ·Al₂O₃â€CaOÂ·6Al₂O₃ (<scp>AMC</scp>) Composite with Improved Slag Penetration Resistance. International Journal of Applied Ceramic Technology, 2016, 13, 33-40.	1.1	16
38	Morphology characterization of periclaseâ€“hercynite refractories by reaction sintering. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 1219-1224.	2.4	14
39	Formation mechanism of elongated Î²â€“Si3N4 crystals in Feâ€“Si3N4 composite via flash combustion. Ceramics International, 2018, 44, 9395-9400.	2.3	13
40	Large scale fabrication of dumbbell-shaped biomimetic SiC/SiO₂ fibers. CrystEngComm, 2015, 17, 9318-9322.	1.3	12
41	Synthesis of CaOÂ·2MgOÂ·8Al2O3 (CM2A8) and its slag resistance mechanism. Journal of the European Ceramic Society, 2017, 37, 1799-1804.	2.8	12
42	Morphology of Î±-Si3N4 in Feâ€“Si3N4 prepared via flash combustion. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 1322-1327.	2.4	11
43	Formation mechanism of calcium hexaluminate. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 1225-1230.	2.4	11
44	Oxidation Behavior and Mechanism of Al4SiC4 in MgO-C-Al4SiC4 System. Coatings, 2017, 7, 85.	1.2	10
45	Improvement of thermal shock performance by residual stress field toughening in periclase-hercynite refractories. Ceramics International, 2018, 44, 24-31.	2.3	10
46	Preparation of high-purity Î±-Si3N4 nano-powder by precursor-carbothermal reduction and nitridation. Ceramics International, 2019, 45, 6335-6339.	2.3	10
47	Improvement in surface-enhanced Raman spectroscopy from cubic SiC semiconductor nanowhiskers by adjustment of energy levels. Physical Chemistry Chemical Physics, 2016, 18, 27572-27576.	1.3	9
48	Synthesis and characterization of a MgO-MgAl 2 O 4 -ZrO 2 composite with a continuous network microstructure. Ceramics International, 2017, 43, 5914-5919.	2.3	9
49	Reaction mechanism for in-situ Î²-SiAlON formation in Fe3Siâ€“Si3N4â€“Al2O3 composites. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 324-331.	2.4	9
50	Simultaneous determination of Cd(II) and Pb(II) using electrode modified by FeAl2O4-AlOOH-reduced graphene oxide hybrids. Ionics, 2019, 25, 2351-2360.	1.2	9
51	Characterization and properties of silicon carbide fibers with self-standing membrane structure. Journal of Alloys and Compounds, 2015, 649, 135-141.	2.8	8
52	Pt-Co Alloys-Loaded Cubic SiC Electrode with Improved Photoelectrocatalysis Property. Materials, 2017, 10, 955.	1.3	8
53	Preparation, growth mechanism and slag resistance behavior of ternary Ca 2 Mg 2 Al 28 O 46 (C 2 M 2 A) Tj ETQq1 1 0.784314 rgBT	1.1	8
54	Morphological Evolution of Low-Grade Silica Fume at Elevated Temperature. High Temperature Materials and Processes, 2017, 36, 607-613.	0.6	7

#	Article	IF	Citations
55	Formation mechanism of large size plate-like Al₄SiC₄ grains by a carbothermal reduction method. CrystEngComm, 2018, 20, 1399-1404.	1.3	7
56	Effectively controlling the crystal growth of Cr₂O₃ using SiO₂ as the second phase. Journal of the American Ceramic Society, 2019, 102, 2187-2194.	1.9	7
57	Effect of Temperature on the Initial Oxidation Behavior and Kinetics of 5Cr Ferritic Steel in Air. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5169-5179.	1.1	7
58	Preparation of equiaxed Î±-Al2O3 by adding oxalic acid. Ceramics International, 2021, 47, 31512-31517.	2.3	7
59	High-performance chromite by structure stabilization treatment. Journal of Iron and Steel Research International, 2020, 27, 169-179.	1.4	6
60	Research on the Fe-silicon nitride material self-producing N2 at high temperature. International Journal of Minerals, Metallurgy, and Materials, 2006, 13, 78-81.	0.2	5
61	Effect of SiO₂ addition on the synthesis of hercynite with high purity. Journal of the Ceramic Society of Japan, 2015, 123, 595-600.	0.5	5
62	Influence of Microstructure on Formation of Deterioration Layer in Periclase-Hercynite Bricks. Refractories and Industrial Ceramics, 2016, 57, 267-272.	0.2	5
63	Fabrication and characterization of ultra light SiC whiskers decorated by RuO₂ nanoparticles as hybrid supercapacitors. RSC Advances, 2016, 6, 19626-19631.	1.7	5
64	Reaction and formation mechanism of Fe-Si3N4 composite prepared by flash combustion synthesis. Ceramics International, 2018, 44, 22777-22783.	2.3	5
65	A Three-Dimensional Porous Conducting Polymer Composite with Ultralow Density and Highly Sensitive Pressure Sensing Properties. Journal of Nanomaterials, 2016, 2016, 1-8.	1.5	4
66	Reaction behavior of trace oxygen during combustion of falling FeSi75 powder in a nitrogen flow. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 959-965.	2.4	4
67	The Reaction Behavior of AlN Powder in Wet Air Between 1573ÂK and 1773ÂK. Jom, 2016, 68, 675-681.	0.9	4
68	Ab initio calculation of the evolution of [SiN_{4â€}_nO_n] tetrahedron during Î²â€Si₃N₄(0001) surface oxidation. Journal of the American Ceramic Society, 2020, 103, 2808-2816.	1.9	4
69	Formation mechanism of Î³-AlON and Î²-SiC reinforcements in a phenolic resin-bonded Alâ€“Siâ€“Al2O3 composite at 1700ÂÂ°C in flowing N2. Journal of Materials Science, 2020, 55, 5772-5781.	1.7	4
70	Broadband, Highâ€Efficiency and Wideâ€Incidentâ€Angle Anomalous Reflection in Groove Metagratings. Annalen Der Physik, 2021, 533, 2100149.	0.9	4
71	The spheroidization process of micron-scaled Î±-Al2O3 powder in hydrothermal method. Ceramics International, 2021, 47, 22911-22917.	2.3	4
72	Effect of Nb and Ta Simultaneous Substitution on Self-Consolidation Sintering of Li₇La₃Zr₂O₁₂. ACS Applied Energy Materials, 2022, 5, 7559-7570.	2.5	4

#	Article	IF	Citations
73	A New Type Preparation of Ultralight Elastic PAN/Sic Aerogels with High Thermal Stability. IOP Conference Series: Materials Science and Engineering, 0, 394, 022035.	0.3	3
74	Ultrasensitive Frequency Shifting of Dielectric Mie Resonance near Metallic Substrate. Research, 2022, 2022, .	2.8	3
75	Morphology Evolution and Phase Interactions of Fe-containing Si₃N₄ in Vacuum High-temperature Environment. ISIJ International, 2016, 56, 189-194.	0.6	2
76	The morphological evolution of the oxide products of Si₃N₄/Al₂O₃ composite refractory under different oxidizing conditions. Journal of the Ceramic Society of Japan, 2017, 125, 661-669.	0.5	2
77	Boron doping induced thermal conductivity enhancement of water-based 3C-Si(B)C nanofluids. Nanotechnology, 2018, 29, 355702.	1.3	2
78	Colloidal coâ€assembly of dualâ€phased ceramic/metal particles toward lightweight, hierarchically structured, and mechanically robust alumina foam. Journal of the American Ceramic Society, 2022, 105, 6013-6022.	1.9	2
79	Fabrication of Semiconductor with Modified Microstructure for Efficient Photocatalytic Hydrogen Evolution Under Visible Light. , 0, , .		0
80	Analysis of Factors that Influence the Evolution of Molten Droplets During Electroslag Remelting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 716-729.	1.0	0
81	Hierarchical nanoarchitectonics of boehmite: The preparation of three-dimensional flower-like via hydrothermal method without surfactants. Inorganic Chemistry Communication, 2022, 138, 109306.	1.8	0