

Jun-Hong Chen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6770759/jun-hong-chen-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	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	
77	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	
76	Ultrasensitive Frequency Shifting of Dielectric Mie Resonance near Metallic Substrate. <i>Research</i> , 2022 , 2022, 1-9	7.8	1
75	Broadband, High-Efficiency and Wide-Incident-Angle Anomalous Reflection in Groove Metagratings. <i>Annalen Der Physik</i> , 2021 , 533, 2100149	2.6	2
74	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
73	The spheroidization process of micron-scaled α -Al ₂ O ₃ powder in hydrothermal method. <i>Ceramics International</i> , 2021 , 47, 22911-22917	5.1	2
72	Preparation of equiaxed α -Al ₂ O ₃ by adding oxalic acid. <i>Ceramics International</i> , 2021 , 47, 31512-31517	5.1	0
71	Formation mechanism of α -AlON and β -SiC reinforcements in a phenolic resin-bonded Al ₃ SiAl ₂ O ₃ composite at 1700 °C in flowing N ₂ . <i>Journal of Materials Science</i> , 2020 , 55, 5772-5781	4.3	0
70	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
69	High-performance chromite by structure stabilization treatment. <i>Journal of Iron and Steel Research International</i> , 2020 , 27, 169-179	1.2	2
68	Tunable fabrication and photoluminescence property of SiC nanowires with different microstructures. <i>Applied Surface Science</i> , 2020 , 506, 144979	6.7	5
67	Ab initio calculation of the evolution of [SiN ₄ -nOn] tetrahedron during β -Si ₃ N ₄ (0001) surface oxidation. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2808-2816	3.8	2
66	Effect of incorporation of nitrogen on calcium hexaaluminate. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 6155-6161	6	10
65	Recent progress in SiC nanowires as electromagnetic microwaves absorbing materials. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152388	5.7	42
64	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
63	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
62	Simultaneous determination of Cd(II) and Pb(II) using electrode modified by FeAl ₂ O ₄ -AIOOH-reduced graphene oxide hybrids. <i>Ionics</i> , 2019 , 25, 2351-2360	2.7	4

61	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
60	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
59	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
58	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
57	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
56	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
55	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
54	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	3	4
53	Boron doping induced thermal conductivity enhancement of water-based 3C-Si(B)C nanofluids. <i>Nanotechnology</i> , 2018 , 29, 355702	3.4	1
52	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
51	Physical and mechanical properties of hot-press sintering ternary CM ₂ A ₈ (CaMg ₂ Al ₁₆ O ₂₇) and C ₂ M ₂ A ₁₄ (Ca ₂ Mg ₂ Al ₂₈ O ₄₆) ceramics. <i>Journal of Advanced Ceramics</i> , 2018 , 7, 229-236	10.7	8
50	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
49	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
48	Corrosion behavior of porous silicon nitride ceramics in different atmospheres. <i>Ceramics International</i> , 2017 , 43, 4344-4352	5.1	14
47	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
46	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
45	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
44	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

43	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
42	Reaction mechanism for in-situ 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
41	Improved microwave absorption performance of modified SiC in the 2–8 GHz frequency range. <i>CrystEngComm</i> , 2017 , 19, 519-527	3.3	39
40	Morphological Evolution of Low-Grade Silica Fume at Elevated Temperature. <i>High Temperature Materials and Processes</i> , 2017 , 36, 607-613	0.9	5
39	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
38	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
37	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
36	Synthesis of CaO–MgO–BaAl ₂ O ₃ (CM2A8) and its slag resistance mechanism. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 1799-1804	6	6
35	In-situ synthesis and reaction mechanism of 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
34	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
33	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
32	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
31	Pt-Co Alloys-Loaded Cubic SiC Electrode with Improved Photoelectrocatalysis Property. <i>Materials</i> , 2017 , 10,	3.5	5
30	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
29	The kiln coating formation mechanism of MgO–BeAl ₂ O ₄ brick. <i>Ceramics International</i> , 2016 , 42, 569-575	5.1	16
28	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
27	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
26	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

25	Formation mechanism of calcium hexaluminate. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016 , 23, 1225-1230	3.1	8
24	Bare and boron-doped cubic silicon carbide nanowires for electrochemical detection of nitrite sensitively. <i>Scientific Reports</i> , 2016 , 6, 24872	4.9	31
23	SiC Nanowires with Tunable Hydrophobicity/Hydrophilicity and Their Application as Nanofluids. <i>Langmuir</i> , 2016 , 32, 5909-16	4	21
22	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
21	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
20	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
19	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
18	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
17	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
16	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
15	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
14	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
13	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
12	Enhancing photoluminescence properties of SiC/SiO ₂ coaxial nanocables by making oxygen vacancies. <i>Dalton Transactions</i> , 2016 , 45, 13503-8	4.3	13
11	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
10	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
9	Large scale fabrication of dumbbell-shaped biomimetic SiC/SiO ₂ fibers. <i>CrystEngComm</i> , 2015 , 17, 9318-9322	3.3	11
8	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

7	Morphology characterization of periclasehercynite refractories by reaction sintering. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015 , 22, 1219-1224	3.1	11
6	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
5	Morphology of Fe ₃ N ₄ in Fe ₃ N ₄ prepared via flash combustion. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015 , 22, 1322-1327	3.1	10
4	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
3	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
2	Synthesis of hercynite by reaction sintering. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 259-263	6	30
1	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