

Fei Chen

List of Publications by Year in descending order

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227
papers

8,007
citations

50170

46
h-index

58464

82
g-index

231
all docs

231
docs citations

231
times ranked

8542
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneously efficient adsorption and photocatalytic degradation of tetracycline by Fe-based MOFs. <i>Journal of Colloid and Interface Science</i> , 2018, 519, 273-284.	5.0	552
2	BiOX (X=Cl, Br, I) photocatalytic nanomaterials: Applications for fuels and environmental management. <i>Advances in Colloid and Interface Science</i> , 2018, 254, 76-93.	7.0	422
3	Enhanced Photocatalytic Degradation of Tetracycline by AgI/BiVO ₄ Heterojunction under Visible-Light Irradiation: Mineralization Efficiency and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32887-32900.	4.0	407
4	Effectiveness and mechanisms of phosphate adsorption on iron-modified biochars derived from waste activated sludge. <i>Bioresource Technology</i> , 2018, 247, 537-544.	4.8	297
5	Efficient decontamination of organic pollutants under high salinity conditions by a nonradical peroxymonosulfate activation system. <i>Water Research</i> , 2021, 191, 116799.	5.3	259
6	Rational Design of Carbon-Doped Carbon Nitride/Bi ₁₂ O ₁₇ Cl ₂ Composites: A Promising Candidate Photocatalyst for Boosting Visible-Light-Driven Photocatalytic Degradation of Tetracycline. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6941-6949.	3.2	196
7	Solid polymer electrolytes incorporating cubic Li ₇ La ₃ Zr ₂ O ₁₂ for all-solid-state lithium rechargeable batteries. <i>Electrochimica Acta</i> , 2017, 258, 1106-1114.	2.6	193
8	Photo-reduction of bromate in drinking water by metallic Ag and reduced graphene oxide (RGO) jointly modified BiVO ₄ under visible light irradiation. <i>Water Research</i> , 2016, 101, 555-563.	5.3	170
9	Understanding and mitigating the toxicity of cadmium to the anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2017, 124, 269-279.	5.3	157
10	Understanding the impact of cationic polyacrylamide on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2018, 130, 281-290.	5.3	156
11	Field assisted sintering of dense Al-substituted cubic phase Li ₇ La ₃ Zr ₂ O ₁₂ solid electrolytes. <i>Journal of Power Sources</i> , 2014, 268, 960-964.	4.0	151
12	Triclocarban enhances short-chain fatty acids production from anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2017, 127, 150-161.	5.3	150
13	Hydrated lanthanum oxide-modified diatomite as highly efficient adsorbent for low-concentration phosphate removal from secondary effluents. <i>Journal of Environmental Management</i> , 2019, 231, 370-379.	3.8	140
14	Free nitrous acid promotes hydrogen production from dark fermentation of waste activated sludge. <i>Water Research</i> , 2018, 145, 113-124.	5.3	137
15	Potential impact of salinity on methane production from food waste anaerobic digestion. <i>Waste Management</i> , 2017, 67, 308-314.	3.7	123
16	Highly selective electrochemical nitrate reduction using copper phosphide self-supported copper foam electrode: Performance, mechanism, and application. <i>Water Research</i> , 2021, 193, 116881.	5.3	121
17	Facile synthesis of In ₂ S ₃ /UiO-66 composite with enhanced adsorption performance and photocatalytic activity for the removal of tetracycline under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 444-457.	5.0	120
18	Is denitrifying anaerobic methane oxidation-centered technologies a solution for the sustainable operation of wastewater treatment Plants?. <i>Bioresource Technology</i> , 2017, 234, 456-465.	4.8	117

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19	High-performance Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ /Poly(ethylene oxide)/Succinonitrile composite electrolyte for solid-state lithium batteries. <i>Journal of Power Sources</i> , 2018, 397, 87-94.	4.0	117
20	Yield symmetry and reduced strength differential in Mg-2.5Y alloy. <i>Acta Materialia</i> , 2016, 120, 75-85.	3.8	102
21	Indirect electrochemical reduction of nitrate in water using zero-valent titanium anode: Factors, kinetics, and mechanism. <i>Water Research</i> , 2019, 157, 191-200.	5.3	95
22	Revealing the Underlying Mechanisms of How Sodium Chloride Affects Short-Chain Fatty Acid Production from the Cofermentation of Waste Activated Sludge and Food Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4675-4684.	3.2	92
23	One-Step Fabrication of CdS Nanorod Arrays via Solution Chemistry. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13457-13462.	1.5	90
24	Influence of particle size and spatial distribution of B ₄ C reinforcement on the microstructure and mechanical behavior of precipitation strengthened Al alloy matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 675, 421-430.	2.6	89
25	Microstructural evolution and mechanical properties of (Mg,Co,Ni,Cu,Zn)O high-entropy ceramics. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2228-2237.	1.9	87
26	ELECTROMAGNETIC OPTIMAL DESIGN AND PREPARATION OF BROADBAND CERAMIC RADOME MATERIAL WITH GRADED POROUS STRUCTURE. <i>Progress in Electromagnetics Research</i> , 2010, 105, 445-461.	1.6	81
27	Sulfate radical induced degradation of Methyl Violet azo dye with CuFe layered doubled hydroxide as heterogeneous photoactivator of persulfate. <i>Journal of Environmental Management</i> , 2018, 227, 406-414.	3.8	77
28	Competing with other polyanionic cathode materials for potassium-ion batteries via fine structure design: new layered KVOPO ₄ with a tailored particle morphology. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15244-15251.	5.2	72
29	Free ammonia-based pretreatment enhances phosphorus release and recovery from waste activated sludge. <i>Chemosphere</i> , 2018, 213, 276-284.	4.2	70
30	Pressureless Sintering of β -Si ₃ N ₄ Porous Ceramics Using a H ₃ PO ₄ Pore-Forming Agent. <i>Journal of the American Ceramic Society</i> , 2007, 90, 2379-2383.	1.9	69
31	In situ formation of LiF decoration on a Li-rich material for long-cycle life and superb low-temperature performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11513-11519.	5.2	67
32	Garnet-type solid electrolyte: Advances of ionic transport performance and its application in all-solid-state batteries. <i>Journal of Advanced Ceramics</i> , 2021, 10, 933-972.	8.9	64
33	Effect of lithium ion concentration on the microstructure evolution and its association with the ionic conductivity of cubic garnet-type nominal Li ₇ Al _{0.25} La ₃ Zr ₂ O ₁₂ solid electrolytes. <i>Solid State Ionics</i> , 2016, 284, 53-60.	1.3	60
34	Faradaically selective membrane for liquid metal displacement batteries. <i>Nature Energy</i> , 2018, 3, 127-131.	19.8	60
35	Novel Star-Shaped Helical Perylene Diimide Electron Acceptors for Efficient Additive-Free Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27894-27901.	4.0	59
36	Synergistic regulation of garnet-type Ta-doped Li ₇ La ₃ Zr ₂ O ₁₂ solid electrolyte by Li ⁺ concentration and Li ⁺ transport channel size. <i>Electrochimica Acta</i> , 2019, 296, 823-829.	2.6	59

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37	Preparation of zirconium pyrophosphate bonded silicon nitride porous ceramics. <i>Materials Science and Technology</i> , 2006, 22, 915-918.	0.8	56
38	Fabrication and thermoelectric properties of $Mg_{2-1-x}Si_{1+x}Sn_x$ ($0 \leq x \leq 1.0$) solid solutions by solid state reaction and spark plasma sintering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 157, 96-100.	1.7	56
39	The ceramifying process and mechanical properties of silicone rubber/ ammonium polyphosphate/ aluminium hydroxide/ mica composites. <i>Polymer Degradation and Stability</i> , 2016, 126, 196-203.	2.7	56
40	Effect of plasma activated sintering parameters on microstructure and mechanical properties of Al-7075/B 4 C composites. <i>Journal of Alloys and Compounds</i> , 2014, 615, 276-282.	2.8	55
41	Effect of nickel on the flocculability, settleability, and dewaterability of activated sludge. <i>Bioresource Technology</i> , 2017, 224, 188-196.	4.8	55
42	Evaluating the potential impact of hydrochar on the production of short-chain fatty acid from sludge anaerobic digestion. <i>Bioresource Technology</i> , 2017, 246, 234-241.	4.8	52
43	Effective adsorption/electrocatalytic degradation of perchlorate using Pd/Pt supported on N-doped activated carbon fiber cathode. <i>Journal of Hazardous Materials</i> , 2017, 323, 602-610.	6.5	50
44	Modeling, Preparation, and Elemental Doping of $Li_7La_3Zr_2O_{12}$ Garnet-Type Solid Electrolytes: A Review. <i>Journal of the Korean Ceramic Society</i> , 2019, 56, 111-129.	1.1	50
45	Field assisted sintering of graphene reinforced zirconia ceramics. <i>Ceramics International</i> , 2015, 41, 6113-6116.	2.3	48
46	Microstructure and mechanical behavior of a novel $Co_{20}Ni_{20}Fe_{20}Al_{20}Ti_{20}$ alloy fabricated by mechanical alloying and spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 644, 10-16.	2.6	46
47	Origin of the Phase Transition in Lithium Garnets. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1963-1972.	1.5	46
48	Chloride-Passivated Mg-Doped ZnO Nanoparticles for Improving Performance of Cadmium-Free, Quantum-Dot Light-Emitting Diodes. <i>ACS Photonics</i> , 2018, 5, 3704-3711.	3.2	45
49	Hollow sphere structured $V_2O_3@C$ as an anode material for high capacity potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13261-13266.	5.2	45
50	Crystal structure and lithium ionic transport behavior of Li site doped $Li_7La_3Zr_2O_{12}$. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3065-3071.	2.8	44
51	The behavior of melamine in biological wastewater treatment system. <i>Journal of Hazardous Materials</i> , 2017, 322, 445-453.	6.5	41
52	Blue quantum dot-based electroluminescent light-emitting diodes. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1340-1365.	3.2	40
53	All-Solid-State Lithium Battery Fitted with Polymer Electrolyte Enhanced by Solid Plasticizer and Conductive Ceramic Filler. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3558-A3565.	1.3	39
54	Mechanical and dielectric properties of silicon nitride ceramics with high and hierarchical porosity. <i>Materials & Design</i> , 2012, 40, 562-566.	5.1	38

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55	From 0D to 3D: Dimensional Control of Bismuth for Potassium Storage with Superb Kinetics and Cycling Stability. <i>Advanced Energy Materials</i> , 2021, 11, 2102263.	10.2	38
56	Regulation mechanism of bottleneck size on Li ⁺ migration activation energy in garnet-type Li ₇ La ₃ Zr ₂ O ₁₂ . <i>Electrochimica Acta</i> , 2018, 261, 137-142.	2.6	37
57	Fabrication and mechanical behavior of bulk nanoporous Cu via chemical de-alloying of Cu-Al alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 660, 241-250.	2.6	36
58	Perchlorate bioreduction linked to methane oxidation in a membrane biofilm reactor: Performance and microbial community structure. <i>Journal of Hazardous Materials</i> , 2018, 357, 244-252.	6.5	36
59	Effect of caffeine on ovariectomy-induced osteoporosis in rats. <i>Biomedicine and Pharmacotherapy</i> , 2019, 112, 108650.	2.5	35
60	Gas Pressure Sintering of Arbitrary Porous Silicon Nitride Ceramics with High Mechanical Strength. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1565-1568.	1.9	34
61	High Capacity All-Solid-State Lithium Battery Using Cathodes with Three-Dimensional Li ⁺ Conductive Network. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1695-A1702.	1.3	34
62	Enhancement of anticorrosion protection via inhibitor-loaded ZnAlCe-LDH nanocontainers embedded in sol-gel coatings. <i>Journal of Coatings Technology Research</i> , 2018, 15, 303-313.	1.2	32
63	Nanostructure and device architecture engineering for high-performance quantum-dot light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10958-10981.	2.7	32
64	Macro/micro structure dependence of mechanical strength of low temperature sintered silicon carbide ceramic foams. <i>Ceramics International</i> , 2012, 38, 5223-5229.	2.3	31
65	Suicide gene-mediated ablation of tumor-initiating mouse pluripotent stem cells. <i>Biomaterials</i> , 2013, 34, 1701-1711.	5.7	31
66	Precipitation phenomena in Al-Zn-Mg alloy matrix composites reinforced with B ₄ C particles. <i>Scientific Reports</i> , 2017, 7, 9589.	1.6	31
67	Cathode/electrolyte interface engineering via wet coating and hot pressing for all-solid-state lithium battery. <i>Solid State Ionics</i> , 2019, 330, 54-59.	1.3	31
68	Dual regulation of Li ⁺ migration of Li _{6.4} La ₃ Zr _{1.4} M _{0.6} O ₁₂ (M = Sb, Ta, Nb) by bottleneck size and bond length of M ⁿ O. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2483-2490.	1.9	29
69	Synthesis of $\sqrt{3}$ silicon nitride single-crystalline nanowires by nitriding cryomilled nanocrystalline silicon powder. <i>Scripta Materialia</i> , 2009, 60, 737-740.	2.6	28
70	Plasma nitrated titanium as a bipolar plate for proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2009, 187, 500-504.	4.0	28
71	Afterglow phosphor materials Y ₂ O ₂ S: Eu, Mg, Ti doped with various Gd concentrations. <i>Journal of Alloys and Compounds</i> , 2010, 502, 180-183.	2.8	28
72	Tea polysaccharide inhibits RANKL-induced osteoclastogenesis in RAW264.7 cells and ameliorates ovariectomy-induced osteoporosis in rats. <i>Biomedicine and Pharmacotherapy</i> , 2018, 102, 539-548.	2.5	28

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73	Preparation of cubic Li ₇ La ₃ Zr ₂ O ₁₂ solid electrolyte using a nano-sized core-shell structured precursor. <i>Journal of Alloys and Compounds</i> , 2015, 644, 793-798.	2.8	27
74	High strength retention and dimensional stability of silicone/alumina composite panel under fire. <i>Fire and Materials</i> , 2012, 36, 254-263.	0.9	26
75	Li ⁺ transport channel size governing Li ⁺ migration in garnet-based all-solid-state lithium batteries. <i>Journal of Alloys and Compounds</i> , 2018, 767, 899-904.	2.8	26
76	Effect of the lithium ion concentration on the lithium ion conductivity of Ga-doped LLZO. <i>Materials Research Express</i> , 2019, 6, 085546.	0.8	26
77	Preparation and Thermoelectric Properties of Bi-Doped Mg ₂ Si _{0.8} Sn _{0.2} Compound. <i>Materials Transactions</i> , 2010, 51, 288-291.	0.4	25
78	Spark Plasma Sintering and Densification Mechanisms of Conductive Ceramics under Coupled Thermal/Electric Fields. <i>Journal of the American Ceramic Society</i> , 2015, 98, 732-740.	1.9	25
79	Theabrownin suppresses in vitro osteoclastogenesis and prevents bone loss in ovariectomized rats. <i>Biomedicine and Pharmacotherapy</i> , 2018, 106, 1339-1347.	2.5	25
80	Ring fusion attenuates the device performance: star-shaped long helical perylene diimide based non-fullerene acceptors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9564-9572.	2.7	25
81	Seeded-mediated growth of ternary AgInS and quaternary AgInZnS nanocrystals from binary Ag ₂ S seeds and the composition-tunable optical properties. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1307-1315.	2.7	24
82	The fate of cyanuric acid in biological wastewater treatment system and its impact on biological nutrient removal. <i>Journal of Environmental Management</i> , 2018, 206, 901-909.	3.8	24
83	Sulfide enhances the Fe(II)/Fe(III) cycle in Fe(III)-peroxymonosulfate system for rapid removal of organic contaminants: Treatment efficiency, kinetics and mechanism. <i>Journal of Hazardous Materials</i> , 2022, 435, 128970.	6.5	24
84	Pore structure control of starch processed silicon nitride porous ceramics with near-zero shrinkage. <i>Materials Letters</i> , 2011, 65, 1410-1412.	1.3	23
85	Designing Multiscale Porous Metal by Simple Dealloying with 3D Morphological Evolution Mechanism Revealed via X-ray Nano-tomography. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2793-2804.	4.0	23
86	Microstructure and electrical property of aluminum doped zinc oxide ceramics by isolating current under spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1953-1959.	2.8	22
87	Oxidation derivative of (-)-epigallocatechin-3-gallate (EGCG) inhibits RANKL-induced osteoclastogenesis by suppressing RANK signaling pathways in RAW 264.7 cells. <i>Biomedicine and Pharmacotherapy</i> , 2019, 118, 109237.	2.5	22
88	Peroxydisulfate (PMS) activation by mackinawite for the degradation of organic pollutants: Underappreciated role of dissolved sulfur derivatives. <i>Science of the Total Environment</i> , 2022, 811, 151421.	3.9	22
89	Spark plasma sintering of Si ₃ N ₄ ceramics with MgO-Al ₂ O ₃ as sintering additives. <i>Materials Chemistry and Physics</i> , 2008, 107, 67-71.	2.0	20
90	Fabrication of transparent conducting ATO films using the ATO sintered targets by pulsed laser deposition. <i>Solar Energy Materials and Solar Cells</i> , 2012, 105, 153-158.	3.0	20

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91	Cooperative Atom Motion in Ni-Cu Nanoparticles during the Structural Evolution and the Implication in the High-Temperature Catalyst Design. ACS Applied Energy Materials, 2019, 2, 8894-8902.	2.5	20
92	Low-temperature preparation of porous SiC ceramics using phosphoric acid as a pore-forming agent and a binder. Ceramics International, 2019, 45, 16470-16475.	2.3	20
93	Plasma activated synthesis and photoluminescence of red phosphor Sr ₂ Si ₅ N ₈ :Eu ²⁺ . Journal of Alloys and Compounds, 2017, 720, 521-528.	2.8	20
94	Optimizing low loss negative index metamaterial for visible spectrum using differential evolution. Optics Express, 2011, 19, 11605.	1.7	19
95	Effect of post-annealing on the electrical conductivity of spark plasma sintered antimony-doped tin oxide (ATO) ceramics. Scripta Materialia, 2013, 68, 297-300.	2.6	19
96	Electronic and optical properties of Y-doped Si ₃ N ₄ by density functional theory. Journal of Alloys and Compounds, 2015, 637, 376-381.	2.8	19
97	THE MICROSTRUCTURE DESIGN OPTIMIZATION OF NEGATIVE INDEX METAMATERIALS USING GENETIC ALGORITHM. Progress in Electromagnetics Research Letters, 2011, 22, 95-108.	0.4	18
98	Texture evolution and mechanical behavior of commercially pure Ti processed via pulsed electric current treatment. Journal of Materials Science, 2016, 51, 10608-10619.	1.7	17
99	Highly-efficient and all-solution-processed red-emitting InP/ZnS-based quantum-dot light-emitting diodes enabled by compositional engineering of electron transport layers. Journal of Materials Chemistry C, 2019, 7, 7636-7642.	2.7	17
100	Astragaloside IV Ameliorates Cognitive Impairment and Neuroinflammation in an Oligomeric A β ² Induced Alzheimer's Disease Mouse Model & via Inhibition of Microglial Activation and NADPH Oxidase Expression. Biological and Pharmaceutical Bulletin, 2021, 44, 1688-1696.	0.6	17
101	OPTIMAL DESIGN OF GRADED REFRACTIVE INDEX PROFILE FOR BROADBAND OMNIDIRECTIONAL ANTIREFLECTION COATINGS USING GENETIC PROGRAMMING. Progress in Electromagnetics Research, 2014, 145, 39-48.	1.6	16
102	Ellagic acid blocks RANKL-RANK interaction and suppresses RANKL-induced osteoclastogenesis by inhibiting RANK signaling pathways. Chemico-Biological Interactions, 2020, 331, 109235.	1.7	16
103	Fabrication and mechanical behavior of porous Cu via chemical de-alloying of Cu ₂₅ Fe ₇₅ alloys. Journal of Alloys and Compounds, 2016, 689, 6-14.	2.8	15
104	Communication-Li ₇ La ₃ Zr ₂ O ₁₂ Interfacial Modification by Constructing a Layer of Cu-Li Alloy. Journal of the Electrochemical Society, 2019, 166, A3028-A3030.	1.3	15
105	Synthesis and Pressureless Sintering of Zirconium Phosphate Ceramics. Journal of the American Ceramic Society, 2008, 91, 3173-3180.	1.9	14
106	Optimal design of light trapping in thin-film solar cells enhanced with graded SiN _x and SiO _x N _y structure. Optics Express, 2012, 20, 11121.	1.7	14
107	Interfacial bond dependence of damping properties of carbon nanotubes enhanced polymers. Polymer Composites, 2014, 35, 548-556.	2.3	14
108	Microstructure and mechanical behavior of NS/UFG aluminum prepared by cryomilling and spark plasma sintering. Journal of Alloys and Compounds, 2016, 679, 426-435.	2.8	14

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109	Synthesis of AA7075-AA7075/B4C bilayer composite with enhanced mechanical strength via plasma activated sintering. <i>Journal of Alloys and Compounds</i> , 2017, 701, 416-424.	2.8	14
110	Flame-retardant properties and synergistic effect of ammonium polyphosphate/aluminum hydroxide/mica/silicone rubber composites. <i>Fire and Materials</i> , 2020, 44, 673-682.	0.9	14
111	Discovery of novel dual c-Met/HDAC inhibitors as a promising strategy for cancer therapy. <i>Bioorganic Chemistry</i> , 2020, 101, 103970.	2.0	14
112	Enhanced power factor of textured Al-doped ZnO ceramics by field-assisted deforming. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1300-1305.	1.9	13
113	Research on Stochastic Optimal Operation Strategy of Active Distribution Network Considering Intermittent Energy. <i>Energies</i> , 2017, 10, 522.	1.6	13
114	Superior crystallinity, optical and electrical properties of carbon doped ZnO:Al films at low-temperature deposition. <i>Applied Surface Science</i> , 2019, 483, 545-550.	3.1	13
115	S/MWCNt/LLZO composite electrode with e ⁻ /S/Li ⁺ conductive network for all-solid-state Lithium-Sulfur batteries. <i>Journal of Solid State Chemistry</i> , 2021, 301, 122341.	1.4	13
116	Singlet oxygen-dominated electrocatalytic oxidation treatment for the high-salinity quaternary ammonium compound wastewater with Ti/(RuIry)O ₂ anode. <i>Environmental Research</i> , 2022, 209, 112815.	3.7	13
117	Optimal structure of light trapping in thin-film solar cells: dielectric nanoparticles or multilayer antireflection coatings?. <i>Applied Optics</i> , 2014, 53, 5222.	0.9	12
118	Synthesis and photoluminescence of doped Si ₃ N ₄ nanowires with various valence electron configurations. <i>Journal of Materials Science</i> , 2018, 53, 13573-13583.	1.7	12
119	Genomics: cracking the mysteries of walnuts. <i>Journal of Genetics</i> , 2019, 98, 1.	0.4	12
120	Sintering behavior in zirconium phosphate bonded silicon nitride porous ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 497, 495-500.	2.6	11
121	Low temperature sintering of Si ₃ N ₄ ceramics by spark plasma sintering technique. <i>Advances in Applied Ceramics</i> , 2011, 110, 20-24.	0.6	11
122	Enhancing thermal stability and photoluminescence of red-emitting Sr ₂ Si ₅ N ₈ :Eu phosphors via boron doping. <i>Journal of Materials Science and Technology</i> , 2021, 94, 130-135.	5.6	11
123	Carbon nanotube-reinforced Al alloy-based nanocomposites via spark plasma sintering. <i>Journal of Composite Materials</i> , 2015, 49, 1937-1946.	1.2	10
124	Linking photoluminescence of $\hat{\pm}$ -Si ₃ N ₄ to intrinsic point defects via band structure modelling. <i>RSC Advances</i> , 2016, 6, 7568-7574.	1.7	10
125	Effect of bottleneck size on lithium migration in lithium garnets Li ₇ La ₃ Zr ₂ O ₁₂ (LLZO). <i>Ionics</i> , 2020, 26, 3193-3198.	1.2	10
126	Synthesis and photoluminescence of heavily La-doped $\hat{\pm}$ -Si ₃ N ₄ nanowires via nitriding cyromilled nanocrystalline La-doped silicon powder. <i>Journal of Luminescence</i> , 2014, 151, 66-70.	1.5	9

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127	Band structures and optical properties of Al-doped $\hat{\pm}$ -Si ₃ N ₄ : theoretical and experimental studies. <i>Ceramics International</i> , 2016, 42, 3681-3686.	2.3	9
128	Graphene Nano-Platelets Reinforced ZrO ₂ Consolidated by Spark Plasma Sintering. <i>Science of Advanced Materials</i> , 2016, 8, 312-317.	0.1	9
129	Liquid phase sintering (LPS) and dielectric constant of $\hat{\pm}$ -silicon nitride ceramic. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2006, 21, 98-100.	0.4	8
130	Preparation of Silicon Nitride Multilayer Ceramic Radome Material and Optimal Design of the Wall Structure. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	8
131	Spark Plasma Sintering and Densification Mechanisms of Antimony-Doped Tin Oxide Nanoceramics. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7.	1.5	8
132	Microstructure and Electrical Properties of AZO/Graphene Nanosheets Fabricated by Spark Plasma Sintering. <i>Materials</i> , 2016, 9, 638.	1.3	8
133	Tough TiB ₂ -Based Ceramic Composites Using Metallic Glass Powder as the Sintering Aid. <i>Advanced Engineering Materials</i> , 2016, 18, 1936-1943.	1.6	8
134	Influencing mechanism and interaction of muscovite on thermal decomposition of ammonium polyphosphate. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 334-339.	0.4	8
135	Fabrication of carbon foams with high mechanical properties derived from sucrose/polyacrylamide hydrogel. <i>Diamond and Related Materials</i> , 2016, 64, 153-162.	1.8	8
136	Influence of Cr removal on the microstructure and mechanical behaviour of a high-entropy Al _{0.8} Ti _{0.2} CoNiFeCr alloy fabricated by powder metallurgy. <i>Powder Metallurgy</i> , 2018, 61, 106-114.	0.9	8
137	Influence of Porosity on Mechanical Behavior of Porous Cu Fabricated via De-Alloying of Cu-Fe Alloy. <i>Metals and Materials International</i> , 2019, 25, 83-93.	1.8	8
138	Tribocorrosion behavior of Ca-P MAO coatings on Ti6Al4V alloy at various applied voltages. <i>Journal of Materials Research</i> , 2020, 35, 444-453.	1.2	8
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