Xian Jian

List of Publications by Year in descending order

92 papers	3,907 citations	136885 32 h-index	133188 59 g-index
93 all docs	93 docs citations	93 times ranked	3906 citing authors

#	Article	IF	Citations
1	Polybenzimidazole functionalized electrolyte with Liâ€wetting and selfâ€fluorination functionalities for practical Li metal batteries. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	33
2	UV-radiation inducing strategy to tune fluorinated carbon bonds delivering the high-rate Li/CFx primary batteries. Composites Part B: Engineering, 2022, 230, 109494.	5.9	15
3	Symmetrical growth of carbon nanotube arrays on FeSiAl micro-flake for enhancement of lithium-ion battery capacity. Carbon, 2022, 189, 93-103.	5.4	22
4	Air plasma-induced carbon fluoride enabling active C F bonds for double-high energy/power densities of Li/CFx primary battery. Journal of Alloys and Compounds, 2022, 905, 164151.	2.8	20
5	Electrical discharge approach for large-scale and high-thermostability FeCoNi Kovar alloy microwave absorbers covering the low-frequency bands. Journal of Alloys and Compounds, 2022, 907, 164509.	2.8	14
6	Carbon nanocapsules stabilized Cu2O nanocubes as the high-performance electrode material for metal ion battery. Journal of Alloys and Compounds, 2022, 909, 164714.	2.8	3
7	Synthesis of monolayer carbon-coated TiO2 as visible-light-responsive photocatalysts. Applied Materials Today, 2022, 27, 101498.	2.3	12
8	Constructing carbon-decorated CFx nanocapsule by atomic layer deposition and catalytic chemical vapor deposition for high-capacity lithium primary battery. Applied Surface Science, 2022, 596, 153570.	3.1	7
9	Flexible strain/pressure sensor with good sensitivity and broad detection range by coupling PDMS and carbon nanocapsules. Journal of Alloys and Compounds, 2022, 918, 165696.	2.8	11
10	2D semiconductor SnP₂S₆ as a new dielectric material for 2D electronics. Journal of Materials Chemistry C, 2022, 10, 13753-13761.	2.7	5
11	Large-scale synthesis of fluorine-free carbonyl iron-organic silicon hydrophobic absorbers with long term corrosion protection property. Nano Research, 2022, 15, 9479-9491.	5.8	22
12	Achieving thermally stable and anti-hydrolytic Sr2Si5N8:Eu2+ phosphor via a nanoscale carbon deposition strategy. Ceramics International, 2021, 47, 3244-3251.	2.3	22
13	Hybrid silica-carbon bilayers anchoring on FeSiAl surface with bifunctions of enhanced anti-corrosion and microwave absorption. Carbon, 2021, 173, 185-193.	5.4	114
14	Strain-regulated sensing properties of Î±-Fe2O3 nano-cylinders with atomic carbon layers for ethanol detection. Journal of Materials Science and Technology, 2021, 68, 132-139.	5.6	14
15	A review of helical carbon materials structure, synthesis and applications. Rare Metals, 2021, 40, 3-19.	3.6	38
16	High antioxidant lamellar structure Cr2AlC: Dielectric and microwave absorption properties in X band. Journal of Alloys and Compounds, 2021, 860, 157896.	2.8	24
17	Fluorinated graphite nanosheets for ultrahigh-capacity lithium primary batteries. Rare Metals, 2021, 40, 1708-1718.	3.6	35
18	Graphene-Decorated Boronâ€“Carbonâ€“Nitride-Based Metal-Free Catalysts for an Enhanced Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2021, 4, 3861-3868.	2.5	19

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19	Large-scale preparation of 2D VSe2 through a defect-engineering approach for efficient hydrogen evolution reaction. Chemical Engineering Journal, 2021, 411, 128494.	6.6	30
20	Defect-Enhanced Electromagnetic Wave Absorption Property of Hierarchical Graphite Capsules@Helical Carbon Nanotube Hybrid Nanocomposites. ACS Applied Materials & Interfaces, 2021, 13, 28710-28720.	4.0	31
21	Structural self-deterioration mechanism for zirconium diboride in an inert environment. Ceramics International, 2021, 47, 18977-18983.	2.3	4
22	Atomic-Scale Layer-by-Layer Deposition of FeSiAl@ZnO@Al2O3 Hybrid with Threshold Anti-Corrosion and Ultra-High Microwave Absorption Properties in Low-Frequency Bands. Nano-Micro Letters, 2021, 13, 161.	14.4	103
23	Inorganic/organic bilayer of silica/acrylic polyurethane decorating FeSiAl for enhanced anti-corrosive microwave absorption. Applied Surface Science, 2021, 567, 150829.	3.1	27
24	Achieving ultra-low frequency microwave absorbing properties based on anti-corrosive silica-pinned flake FeSiAl hybrid with full L band absorption. Journal of Alloys and Compounds, 2021, 888, 161574.	2.8	20
25	In situ regulation of microstructure and microwave-absorbing properties of FeSiAl through HNO₃ oxidation. Nanotechnology Reviews, 2021, 11, 147-157.	2.6	7
26	Heatâ€Resistant Trilayer Separators for Highâ€Performance Lithiumâ€Ion Batteries. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900504.	1.2	6
27	Plasma-induced FeSiAl@Al2O3@SiO2 coreâ€“shell structure for exceptional microwave absorption and anti-oxidation at high temperature. Chemical Engineering Journal, 2020, 384, 123371.	6.6	161
28	Hydrophobic surface modification toward highly stable K2SiF6:Mn4+ phosphor for white light-emitting diodes. Ceramics International, 2020, 46, 8811-8818.	2.3	37
29	A solid-electrolyte-reinforced separator through single-step electrophoretic assembly for safe high-capacity lithium ion batteries. Journal of Power Sources, 2020, 448, 227469.	4.0	23
30	Electrocatalytic hydrogen evolution under neutral pH conditions: current understandings, recent advances, and future prospects. Energy and Environmental Science, 2020, 13, 3185-3206.	15.6	225
31	Bifunctional water-electrolysis-catalysts meeting band-diagram analysis: case study of â€œFePâ€• electrodes. Journal of Materials Chemistry A, 2020, 8, 20021-20029.	5.2	25
32	Nitrogen-Doped Oxygenated Molybdenum Phosphide as an Efficient Electrocatalyst for Hydrogen Evolution in Alkaline Media. Frontiers in Chemistry, 2020, 8, 733.	1.8	16
33	Raman and XPS depth profiling technique to investigate the corrosion behavior of FeSiAl alloy in salt spray environment. Journal of Alloys and Compounds, 2020, 834, 155075.	2.8	33
34	Porous quasi-graphitic carbon sheets for unprecedented sodium storage. Inorganic Chemistry Frontiers, 2020, 7, 2443-2450.	3.0	1
35	Application of ZrB2 thin film as a low emissivity film at high temperature. Applied Surface Science, 2020, 527, 146763.	3.1	28
36	Pursuing low infrared emissivity materials with wider coverage band in ZrB2â€“CeO2 compounds and their reaction mechanisms. Ceramics International, 2020, 46, 18234-18240.	2.3	9

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37	Bifunctional carbon-encapsulated FeSiAl hybrid flakes for enhanced microwave absorption properties and analysis of corrosion resistance. Journal of Alloys and Compounds, 2020, 828, 154079.	2.8	53
38	A review for modified Li composite anode: Principle, preparation and challenge. Nanotechnology Reviews, 2020, 9, 1610-1624.	2.6	15
39	Direct observation of Eu atoms in AlN lattice and the firstâ€principles simulations. Journal of the American Ceramic Society, 2019, 102, 310-319.	1.9	20
40	Optical Analysis Using Effective Medium Theory and Finite Element Method to Study the Enhanced Light Absorption in Porous BaMgAl10O17:Eu2+ Phosphor. Physics of the Solid State, 2019, 61, 1450-1455.	0.2	1
41	Multi-layered porous hierarchical TiO2/g-C3N4 hybrid coating for enhanced visible light photocatalysis. Applied Surface Science, 2019, 495, 143435.	3.1	62
42	Carbon-decorated LiMn2O4 nanorods with enhanced performance for supercapacitors. Journal of Alloys and Compounds, 2019, 805, 624-630.	2.8	12
43	3D Hollow Quasi-Graphite Capsules/Polyaniline Hybrid with a High Performance for Room-Temperature Ammonia Gas Sensors. ACS Sensors, 2019, 4, 2343-2350.	4.0	64
44	Porous Eleocharis@MnPE Layered Hybrid for Synergistic Adsorption and Catalytic Biodegradation of Toxic Azo Dyes from Industrial Wastewater. Environmental Science & Technology, 2019, 53, 2161-2170.	4.6	102
45	Self-tunable ultrathin carbon nanocups as the electrode material of sodium-ion batteries with unprecedented capacity and stability. Chemical Engineering Journal, 2019, 364, 578-588.	6.6	37
46	Cobalt Diselenide@Reduced graphene oxide based nanohybrid for supercapacitor applications. Composites Part B: Engineering, 2019, 174, 107001.	5.9	18
47	Unveiling Property of Hydrolysis-Derived DMAPbI3 for Perovskite Devices: Composition Engineering, Defect Mitigation, and Stability Optimization. IScience, 2019, 15, 165-172.	1.9	107
48	Evolution of microstructure and anti-oxidation ability of ZrB2 improved by a unique inert glass phase. Ceramics International, 2019, 45, 14291-14296.	2.3	12
49	High-Temperature Oxidation-Resistant ZrN_{0.4}B_{0.6}/SiC Nanohybrid for Enhanced Microwave Absorption. ACS Applied Materials & Interfaces, 2019, 11, 15869-15880.	4.0	150
50	Ultralow-permittivity glass /Al2O3 composite for LTCC applications. Ceramics International, 2019, 45, 13711-13718.	2.3	13
51	An Upgraded Lithium Ion Battery Based on a Polymeric Separator Incorporated with Anode Active Materials. Advanced Energy Materials, 2019, 9, 1803627.	10.2	53
52	A brief review for fluorinated carbon: synthesis, properties and applications. Nanotechnology Reviews, 2019, 8, 573-586.	2.6	67
53	In Vivo and In Vitro Monitoring of Amyloid Aggregation via BSA@FGQDs Multimodal Probe. ACS Sensors, 2019, 4, 200-210.	4.0	54
54	Investigation of electrical properties of pressureless sintered ZrB2-based ceramics. Ceramics International, 2019, 45, 7717-7722.	2.3	13

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55	Oxidation behaviour of plasma-sprayed ZrB2-SiC coatings. Ceramics International, 2019, 45, 2385-2392.	2.3	25
56	Preparation of low-permittivity K2Oâ€“B2O3â€“SiO2â€“Al2O3 composites without the addition of glass. Nanotechnology Reviews, 2019, 8, 459-466.	2.6	4
57	Heterostructured Nanorings of Feâˆ’Fe₃O₄@C Hybrid with Enhanced Microwave Absorption Performance. ACS Applied Materials & Interfaces, 2018, 10, 9369-9378.	4.0	244
58	Insight into the evolution mechanism of carbon film and Eu valence in carbon coated BaMgAl10O17: Eu2+ phosphor annealed in air. Ceramics International, 2018, 44, 8898-8903.	2.3	14
59	Highâ€performance infrared emissivity of microâ€arc oxidation coatings formed on titanium alloy for aerospace applications. International Journal of Applied Ceramic Technology, 2018, 15, 579-591.	1.1	12
60	A novel strategy to motivate the luminescence efficiency of a phosphor: drilling nanoholes on the surface. Chemical Communications, 2018, 54, 3480-3483.	2.2	25
61	Ultra-small Co/CNTs nanohybrid from metal organic framework with highly efficient microwave absorption. Composites Part B: Engineering, 2018, 152, 316-323.	5.9	133
62	Non-isothermal oxidation kinetics of FeSiAl alloy powder for microwave absorption at high temperature. Composites Part B: Engineering, 2018, 155, 282-287.	5.9	41
63	Synthesis and growth mechanism of various SiO 2 nanostructures from straight to helical morphologies. Composites Part B: Engineering, 2018, 149, 92-98.	5.9	15
64	Pursuing enhanced oxidation resistance of ZrB2 ceramics by SiC and WC co-doping. Journal of the European Ceramic Society, 2018, 38, 5311-5318.	2.8	24
65	Corrosion behavior of HA containing ceramic coated magnesium alloy in Hank's solution. Journal of Alloys and Compounds, 2017, 698, 643-653.	2.8	41
66	An Efficient Route to Polymeric Electrolyte Membranes with Interparticle Chain Microstructure Toward Highâ€Temperature Lithiumâ€Ion Batteries. Advanced Materials Interfaces, 2017, 4, 1601236.	1.9	22
67	Distinctive Supercapacitive Properties of Copper and Copper Oxide Nanocrystals Sharing a Similar Colloidal Synthetic Route. Advanced Energy Materials, 2017, 7, 1700105.	10.2	42
68	Facile Synthesis of Three-Dimensional Sandwiched MnO₂@GCs@MnO₂ Hybrid Nanostructured Electrode for Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2017, 9, 18872-18882.	4.0	52
69	Mechanistic study of graphitic carbon layer and nanosphere formation on the surface of T-ZnO. Inorganic Chemistry Frontiers, 2017, 4, 978-985.	3.0	12
70	A highly-efficient route to three-dimensional nanoporous copper leaves with high surface enhanced Raman scattering properties. Chemical Engineering Journal, 2017, 321, 394-400.	6.6	24
71	Synthesis and properties of hydroxyapatite-containing coating on AZ31 magnesium alloy by micro-arc oxidation. Applied Surface Science, 2017, 400, 391-404.	3.1	89
72	Luminescent properties and microstructure of SiC doped AlON: Eu2+ phosphors. Journal of Alloys and Compounds, 2017, 725, 217-226.	2.8	10

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73	Insights into van der Waals interaction between nanotubes and planar surfaces. Materials Today Physics, 2017, 2, 35-39.	2.9	1
74	Insight the Luminescence Properties of AlON: Eu, Mg Phosphor under VUV Excitation. Materials, 2017, 10, 723.	1.3	9
75	Space matters: Li+ conduction versus strain effect at FePO4/LiFePO4 interface. Applied Physics Letters, 2016, 108, .	1.5	18
76	Fe3C/helical carbon nanotube hybrid: Facile synthesis and spin-induced enhancement in microwave-absorbing properties. Composites Part B: Engineering, 2016, 107, 51-58.	5.9	76
77	Vaporâ€“Dissociationâ€“Solid Growth of Three-Dimensional Graphite-like Capsules with Delicate Morphology and Atomic-level Thickness Control. Crystal Growth and Design, 2016, 16, 5040-5048.	1.4	27
78	Facile Synthesis of Fe₃O₄/GCs Composites and Their Enhanced Microwave Absorption Properties. ACS Applied Materials & Interfaces, 2016, 8, 6101-6109.	4.0	518
79	Enhanced Optical Performance of BaMgAl₁₀O₁₇:Eu²⁺ Phosphor by a Novel Method of Carbon Coating. Journal of Physical Chemistry C, 2016, 120, 2355-2361.	1.5	51
80	Improved Blueâ€Emitting AlN:Eu²⁺ Phosphors by Alloying with GaN. Journal of the American Ceramic Society, 2015, 98, 3897-3904.	1.9	12
81	Luminescent properties of a novel Al10O3N8:Eu2+ phosphor by a mechanochemical activation route. Optical Materials, 2015, 42, 511-515.	1.7	13
82	Enhancement in photoluminescence performance of carbon-decorated T-ZnO. Nanotechnology, 2015, 26, 125705.	1.3	11
83	Synthesis of high-purity CuO nanoleaves and analysis of their ethanol gas sensing properties. RSC Advances, 2015, 5, 34788-34794.	1.7	39
84	Preparation and microwave-absorbing property of BaFe₁₂O₁₉ nanoparticles and BaFe₁₂O₁₉/Fe₃C/CNTs composites. RSC Advances, 2015, 5, 91665-91669.	1.7	42
85	Remarkable improvement in microwave absorption by cloaking a micro-scaled tetrapod hollow with helical carbon nanofibers. Physical Chemistry Chemical Physics, 2015, 17, 3024-3031.	1.3	54
86	High-purity Cu nanocrystal synthesis by a dynamic decomposition method. Nanoscale Research Letters, 2014, 9, 2499.	3.1	9
87	Controllable synthesis of carbon coils and growth mechanism for twinning double-helix catalyzed by Ni nanoparticle. Composites Part B: Engineering, 2014, 61, 350-357.	5.9	20
88	Length evolution of helical micro/nano-scale structures. RSC Advances, 2014, 4, 31308-31312.	1.7	2
89	Controllable preparation of Ni nanoparticles for catalysis of coiled carbon fibers growth. Nanoscale Research Letters, 2014, 9, 370.	3.1	10
90	Gas-Induced Formation of Cu Nanoparticle as Catalyst for High-Purity Straight and Helical Carbon Nanofibers. ACS Nano, 2012, 6, 8611-8619.	7.3	50

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91	Effect of volume ratio of acetonitrile to water on the morphology and property of polypyrrole prepared by chemical oxidation method. Polymer Engineering and Science, 2012, 52, 1600-1605.	1.5	7
92	Preparation of high purity helical carbon nanofibers by the catalytic decomposition of acetylene and their growth mechanism. Carbon, 2010, 48, 4535-4541.	5.4	40