

Nasir Mahmood

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6386362/publications.pdf>

Version: 2024-02-01

189
papers

14,865
citations

20817

60
h-index

20358

116
g-index

189
all docs

189
docs citations

189
times ranked

17501
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress on the Development of Carbon Nitride Based All-Solid State Photocatalyst for Solar Energy Conversion Applications. <i>Energy Technology</i> , 2022, 10, 2000950.	3.8	7
2	Polybenzimidazole functionalized electrolyte with Li-wetting and self-fluorination functionalities for practical Li metal batteries. <i>Informa Mater</i> , 2022, 4, .	17.3	33
3	Soft X-ray Detectors Based on SnS Nanosheets for the Water Window Region. <i>Advanced Functional Materials</i> , 2022, 32, 2105038.	14.9	11
4	Highly accurate and label-free discrimination of single cancer cell using a plasmonic oxide-based nanoprobe. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113814.	10.1	14
5	Recent development in emerging phosphorene based novel materials: Progress, challenges, prospects and their fascinating sensing applications. <i>Progress in Solid State Chemistry</i> , 2022, 65, 100336.	7.2	18
6	Hetero-metallic metal-organic frameworks for room-temperature NO ₂ sensing. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 304-312.	9.4	15
7	Synthesis of functional hydrochar from olive waste for simultaneous removal of azo and non-azo dyes from water. <i>Chemical Engineering Journal Advances</i> , 2022, 9, 100233.	5.2	13
8	Symmetrical growth of carbon nanotube arrays on FeSiAl micro-flake for enhancement of lithium-ion battery capacity. <i>Carbon</i> , 2022, 189, 93-103.	10.3	22
9	Air plasma-induced carbon fluoride enabling active C F bonds for double-high energy/power densities of Li/CF _x primary battery. <i>Journal of Alloys and Compounds</i> , 2022, 905, 164151.	5.5	20
10	Electrical discharge approach for large-scale and high-thermostability FeCoNi Kovar alloy microwave absorbers covering the low-frequency bands. <i>Journal of Alloys and Compounds</i> , 2022, 907, 164509.	5.5	14
11	Carbon nanocapsules stabilized Cu ₂ O nanocubes as the high-performance electrode material for metal ion battery. <i>Journal of Alloys and Compounds</i> , 2022, 909, 164714.	5.5	3
12	Role of binary metal chalcogenides in extending the limits of energy storage systems: Challenges and possible solutions. <i>Science China Materials</i> , 2022, 65, 559-592.	6.3	8
13	Synthesis of monolayer carbon-coated TiO ₂ as visible-light-responsive photocatalysts. <i>Applied Materials Today</i> , 2022, 27, 101498.	4.3	12
14	Comprehensive survey and taxonomies of false data injection attacks in smart grids: attack models, targets, and impacts. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 163, 112423.	16.4	58
15	Constructing carbon-decorated CF _x nanocapsule by atomic layer deposition and catalytic chemical vapor deposition for high-capacity lithium primary battery. <i>Applied Surface Science</i> , 2022, 596, 153570.	6.1	7
16	Flexible strain/pressure sensor with good sensitivity and broad detection range by coupling PDMS and carbon nanocapsules. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165696.	5.5	11
17	2D semiconductor SnP ₂ S ₆ as a new dielectric material for 2D electronics. <i>Journal of Materials Chemistry C</i> , 2022, 10, 13753-13761.	5.5	5
18	Large-scale synthesis of fluorine-free carbonyl iron-organic silicon hydrophobic absorbers with long term corrosion protection property. <i>Nano Research</i> , 2022, 15, 9479-9491.	10.4	22

#	ARTICLE	IF	CITATIONS
19	Visualization of battery materials and their interfaces/interphases using cryogenic electron microscopy. <i>Materials Today</i> , 2022, 58, 238-274.	14.2	17
20	The precise fluorination of ginkgo leaves for enhanced performance of lithium primary batteries. <i>Materials Letters</i> , 2022, 324, 132812.	2.6	1
21	Hybrid silica-carbon bilayers anchoring on FeSiAl surface with bifunctions of enhanced anti-corrosion and microwave absorption. <i>Carbon</i> , 2021, 173, 185-193.	10.3	114
22	Bioinspired synthesis of zinc oxide nano-flowers: A surface enhanced antibacterial and harvesting efficiency. <i>Materials Science and Engineering C</i> , 2021, 119, 111280.	7.3	75
23	Strain-regulated sensing properties of Fe_2O_3 nano-cylinders with atomic carbon layers for ethanol detection. <i>Journal of Materials Science and Technology</i> , 2021, 68, 132-139.	10.7	14
24	A review of helical carbon materials structure, synthesis and applications. <i>Rare Metals</i> , 2021, 40, 3-19.	7.1	38
25	Sensing Applications of Atomically Thin Group IV Carbon Siblings Xenos: Progress, Challenges, and Prospects. <i>Advanced Functional Materials</i> , 2021, 31, 2005957.	14.9	37
26	Bioinspired synthesis of inorganic nanomaterials. , 2021, , 171-200.		2
27	Phytotoxic Evaluation of Phytosynthesized Silver Nanoparticles on Lettuce. <i>Coatings</i> , 2021, 11, 225.	2.6	33
28	Vulnerability and Impact Analysis of the IEC 61850 GOOSE Protocol in the Smart Grid. <i>Sensors</i> , 2021, 21, 1554.	3.8	28
29	Fluorinated graphite nanosheets for ultrahigh-capacity lithium primary batteries. <i>Rare Metals</i> , 2021, 40, 1708-1718.	7.1	35
30	Graphene-Decorated Boron-Carbon-Nitride-Based Metal-Free Catalysts for an Enhanced Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 3861-3868.	5.1	19
31	Plasmonic metal-organic framework nanocomposites enabled by degenerately doped molybdenum oxides. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 305-314.	9.4	21
32	Maximum piezoelectricity in a few unit-cell thick planar ZnO – A liquid metal-based synthesis approach. <i>Materials Today</i> , 2021, 44, 69-77.	14.2	44
33	Large-scale preparation of 2D VSe ₂ through a defect-engineering approach for efficient hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 411, 128494.	12.7	30
34	A Visible-Blind Photodetector and Artificial Optoelectronic Synapse Using Liquid-Metal Exfoliated ZnO Nanosheets. <i>Advanced Optical Materials</i> , 2021, 9, 2100449.	7.3	41
35	Defect-Enhanced Electromagnetic Wave Absorption Property of Hierarchical Graphite Capsules@Helical Carbon Nanotube Hybrid Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28710-28720.	8.0	31
36	Iron-doped zinc oxide for photocatalyzed degradation of humic acid from municipal wastewater. <i>Applied Materials Today</i> , 2021, 23, 101047.	4.3	18

#	ARTICLE	IF	CITATIONS
37	Recent advances in hybrid wet scrubbing techniques for NO _x and SO ₂ removal: State of the art and future research. <i>Chemosphere</i> , 2021, 273, 129695.	8.2	45
38	Ultrasensitive WSe ₂ field-effect transistor-based biosensor for label-free detection of cancer in point-of-care applications. <i>2D Materials</i> , 2021, 8, 045005.	4.4	23
39	Atomic-Scale Layer-by-Layer Deposition of FeSiAl@ZnO@Al ₂ O ₃ Hybrid with Threshold Anti-Corrosion and Ultra-High Microwave Absorption Properties in Low-Frequency Bands. <i>Nano-Micro Letters</i> , 2021, 13, 161.	27.0	103
40	Multiplexing surface anchored functionalized iron carbide nanoparticle: A low molecular weight proteome responsive nano-tracer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 203, 111746.	5.0	16
41	The role of nitrogen in transition-metal nitrides in electrochemical water splitting. <i>Chem Catalysis</i> , 2021, 1, 802-854.	6.1	53
42	Thermally activated epoxy-functionalized carbon as an electrocatalyst for efficient NO _x reduction. <i>Carbon</i> , 2021, 182, 516-524.	10.3	16
43	Mixed-dimensional niobium disulfide-graphene foam heterostructures as an efficient catalyst for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 33679-33688.	7.1	10
44	Foldable and scrollable graphene paper with tuned interlayer spacing as high areal capacity anodes for sodium-ion batteries. <i>Energy Storage Materials</i> , 2021, 41, 395-403.	18.0	28
45	Inorganic/organic bilayer of silica/acrylic polyurethane decorating FeSiAl for enhanced anti-corrosive microwave absorption. <i>Applied Surface Science</i> , 2021, 567, 150829.	6.1	27
46	Achieving ultra-low frequency microwave absorbing properties based on anti-corrosive silica-pinned flake FeSiAl hybrid with full L band absorption. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161574.	5.5	20
47	A mechanistic study of electrode materials for rechargeable batteries beyond lithium ions by <i>in situ</i> transmission electron microscopy. <i>Energy and Environmental Science</i> , 2021, 14, 2670-2707.	30.8	42
48	Interface chemistry of two-dimensional heterostructures – fundamentals to applications. <i>Chemical Society Reviews</i> , 2021, 50, 4684-4729.	38.1	152
49	Recent development in graphdiyne and its derivative materials for novel biomedical applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9461-9484.	5.8	19
50	High- <i>k</i> 2D Sb ₂ O ₃ Made Using a Substrate-Independent and Low-Temperature Liquid-Metal-Based Process. <i>ACS Nano</i> , 2021, 15, 16067-16075.	14.6	24
51	Green-maturation of Cobalt-Oxide nano-sponges for reinforced bacterial apoptosis. <i>Colloids and Interface Science Communications</i> , 2021, 45, 100531.	4.1	32
52	<i>In situ</i> regulation of microstructure and microwave-absorbing properties of FeSiAl through HNO ₃ oxidation. <i>Nanotechnology Reviews</i> , 2021, 11, 147-157.	5.8	7
53	Heat-Resistant Trilayer Separators for High-Performance Lithium-Ion Batteries. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900504.	2.4	6
54	Plasma-induced FeSiAl@Al ₂ O ₃ @SiO ₂ core-shell structure for exceptional microwave absorption and anti-oxidation at high temperature. <i>Chemical Engineering Journal</i> , 2020, 384, 123371.	12.7	161

#	ARTICLE	IF	CITATIONS
55	Mixed-dimensional heterostructures of hydrophobic/hydrophilic graphene foam for tunable hydrogen evolution reaction. <i>Chemosphere</i> , 2020, 245, 125607.	8.2	29
56	Large magnetotransport properties in mixed-dimensional van der Waals heterostructures of graphene foam. <i>Carbon</i> , 2020, 159, 648-655.	10.3	15
57	Two-Step Synthesis of Large-Area 2D Bi ₂ S ₃ Nanosheets Featuring High In-Plane Anisotropy. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001131.	3.7	27
58	Broadband Photodetectors: Liquid-Metal Synthesized Ultrathin SnS Layers for High-Performance Broadband Photodetectors (<i>Adv. Mater.</i> 45/2020). <i>Advanced Materials</i> , 2020, 32, 2070338.	21.0	2
59	Electrocatalytic hydrogen evolution under neutral pH conditions: current understandings, recent advances, and future prospects. <i>Energy and Environmental Science</i> , 2020, 13, 3185-3206.	30.8	225
60	Core-Shell FeSe ₂ /C Nanostructures Embedded in a Carbon Framework as a Free Standing Anode for a Sodium Ion Battery. <i>Small</i> , 2020, 16, e2002200.	10.0	72
61	Physiological and anti-oxidative response of biologically and chemically synthesized iron oxide: Zea mays a case study. <i>Heliyon</i> , 2020, 6, e04595.	3.2	28
62	Bifunctional water-electrolysis-catalysts meeting band-diagram analysis: case study of α -FeP electrodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20021-20029.	10.3	25
63	Liquid-Metal Synthesized Ultrathin SnS Layers for High-Performance Broadband Photodetectors. <i>Advanced Materials</i> , 2020, 32, e2004247.	21.0	66
64	Nitrogen-Doped Oxygenated Molybdenum Phosphide as an Efficient Electrocatalyst for Hydrogen Evolution in Alkaline Media. <i>Frontiers in Chemistry</i> , 2020, 8, 733.	3.6	16
65	Recent Progress, Challenges, and Prospects in Two-Dimensional Photo-Catalyst Materials and Environmental Remediation. <i>Nano-Micro Letters</i> , 2020, 12, 167.	27.0	57
66	Raman and XPS depth profiling technique to investigate the corrosion behavior of FeSiAl alloy in salt spray environment. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155075.	5.5	33
67	Porous quasi-graphitic carbon sheets for unprecedented sodium storage. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2443-2450.	6.0	1
68	Synthesis, properties and novel electrocatalytic applications of the 2D-borophene Xenes. <i>Progress in Solid State Chemistry</i> , 2020, 59, 100283.	7.2	65
69	Carbon Fibers Embedded With Iron Selenide (Fe ₃ Se ₄) as Anode for High-Performance Sodium and Potassium Ion Batteries. <i>Frontiers in Chemistry</i> , 2020, 8, 408.	3.6	30
70	Liquid metal-based synthesis of high performance monolayer SnS piezoelectric nanogenerators. <i>Nature Communications</i> , 2020, 11, 3449.	12.8	128
71	Bifunctional carbon-encapsulated FeSiAl hybrid flakes for enhanced microwave absorption properties and analysis of corrosion resistance. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154079.	5.5	53
72	Synthesis of two-dimensional hematite and iron phosphide for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2789-2797.	10.3	60

#	ARTICLE	IF	CITATIONS
73	A Dual Protection System for Heterostructured 3D CNT/CoSe ₂ /C as High Areal Capacity Anode for Sodium Storage. <i>Advanced Science</i> , 2020, 7, 1902907.	11.2	97
74	A review for modified Li composite anode: Principle, preparation and challenge. <i>Nanotechnology Reviews</i> , 2020, 9, 1610-1624.	5.8	15
75	Nanotechnology in Early Detection and Treatment of Amyloidosis. <i>Nanotechnology in the Life Sciences</i> , 2020, , 185-207.	0.6	0
76	Direct observation of Eu atoms in AlN lattice and the first-principles simulations. <i>Journal of the American Ceramic Society</i> , 2019, 102, 310-319.	3.8	20
77	Graphene decorated polymeric flexible materials for lightweight high areal energy lithium-ion batteries. <i>Applied Materials Today</i> , 2019, 17, 123-129.	4.3	43
78	Optical Analysis Using Effective Medium Theory and Finite Element Method to Study the Enhanced Light Absorption in Porous BaMgAl ₁₀ O ₁₇ :Eu ²⁺ Phosphor. <i>Physics of the Solid State</i> , 2019, 61, 1450-1455.	0.6	1
79	Fe ₃ O ₄ Nanoparticles Coated with EDTA and Ag Nanoparticles for the Catalytic Reduction of Organic Dyes from Wastewater. <i>ACS Applied Nano Materials</i> , 2019, 2, 5310-5319.	5.0	83
80	A 3D Trilayered CNT/MoSe ₂ /C Heterostructure with an Expanded MoSe ₂ Interlayer Spacing for an Efficient Sodium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1900567.	19.5	218
81	Carbon-decorated LiMn ₂ O ₄ nanorods with enhanced performance for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 805, 624-630.	5.5	12
82	3D Hollow Quasi-Graphite Capsules/Polyaniline Hybrid with a High Performance for Room-Temperature Ammonia Gas Sensors. <i>ACS Sensors</i> , 2019, 4, 2343-2350.	7.8	64
83	Synthesis of silver nanoparticles using <i>Fagonia cretica</i> and their antimicrobial activities. <i>Nanoscale Advances</i> , 2019, 1, 1707-1713.	4.6	68
84	Porous Eleocharis@MnPE Layered Hybrid for Synergistic Adsorption and Catalytic Biodegradation of Toxic Azo Dyes from Industrial Wastewater. <i>Environmental Science & Technology</i> , 2019, 53, 2161-2170.	10.0	102
85	Self-tunable ultrathin carbon nanocups as the electrode material of sodium-ion batteries with unprecedented capacity and stability. <i>Chemical Engineering Journal</i> , 2019, 364, 578-588.	12.7	37
86	Ordered intracrystalline pores in planar molybdenum oxide for enhanced alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 257-268.	10.3	70
87	Rationally designed La and Se co-doped bismuth ferrites with controlled bandgap for visible light photocatalysis. <i>RSC Advances</i> , 2019, 9, 17148-17156.	3.6	33
88	Unveiling Property of Hydrolysis-Derived DMAPbI ₃ for Perovskite Devices: Composition Engineering, Defect Mitigation, and Stability Optimization. <i>IScience</i> , 2019, 15, 165-172.	4.1	107
89	Synthesis of Loureirin B-Loaded Nanoliposomes for Pharmacokinetics in Rat Plasma. <i>ACS Omega</i> , 2019, 4, 6914-6922.	3.5	23
90	Superior Magnetoresistance Performance of Hybrid Graphene Foam/Metal Sulfide Nanocrystal Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19397-19403.	8.0	26

#	ARTICLE	IF	CITATIONS
91	High-Temperature Oxidation-Resistant ZrN _{0.4} /B _{0.6} /SiC Nanohybrid for Enhanced Microwave Absorption. ACS Applied Materials & Interfaces, 2019, 11, 15869-15880.	8.0	150
92	An Upgraded Lithium Ion Battery Based on a Polymeric Separator Incorporated with Anode Active Materials. Advanced Energy Materials, 2019, 9, 1803627.	19.5	53
93	A brief review for fluorinated carbon: synthesis, properties and applications. Nanotechnology Reviews, 2019, 8, 573-586.	5.8	67
94	<i>In Vivo</i> and <i>In Vitro</i> Monitoring of Amyloid Aggregation via BSA@FGQDs Multimodal Probe. ACS Sensors, 2019, 4, 200-210.	7.8	54
95	Investigation of electrical properties of pressureless sintered ZrB ₂ -based ceramics. Ceramics International, 2019, 45, 7717-7722.	4.8	13
96	Oxidation behaviour of plasma-sprayed ZrB ₂ -SiC coatings. Ceramics International, 2019, 45, 2385-2392.	4.8	25
97	Atomically thin two-dimensional metal oxide nanosheets and their heterostructures for energy storage. Energy Storage Materials, 2019, 16, 455-480.	18.0	109
98	Preparation of low-permittivity K ₂ O@B ₂ O ₃ @SiO ₂ @Al ₂ O ₃ composites without the addition of glass. Nanotechnology Reviews, 2019, 8, 459-466.	5.8	4
99	Heterostructured Nanorings of Fe ³⁺ Fe ₃ O ₄ @C Hybrid with Enhanced Microwave Absorption Performance. ACS Applied Materials & Interfaces, 2018, 10, 9369-9378.	8.0	244
100	Liquid metals: fundamentals and applications in chemistry. Chemical Society Reviews, 2018, 47, 4073-4111.	38.1	763
101	Biological entities as chemical reactors for synthesis of nanomaterials: Progress, challenges and future perspective. Materials Today Chemistry, 2018, 8, 13-28.	3.5	112
102	Evolution of 2D tin oxides on the surface of molten tin. Chemical Communications, 2018, 54, 2102-2105.	4.1	27
103	High-performance infrared emissivity of micro-arc oxidation coatings formed on titanium alloy for aerospace applications. International Journal of Applied Ceramic Technology, 2018, 15, 579-591.	2.1	12
104	Engineering Cobalt Defects in Cobalt Oxide for Highly Efficient Electrocatalytic Oxygen Evolution. ACS Catalysis, 2018, 8, 3803-3811.	11.2	430
105	A novel strategy to motivate the luminescence efficiency of a phosphor: drilling nanoholes on the surface. Chemical Communications, 2018, 54, 3480-3483.	4.1	25
106	Oxygen-doped nanoporous carbon nitride via water-based homogeneous supramolecular assembly for photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 221, 9-16.	20.2	217
107	Electrocatalysts for Hydrogen Evolution in Alkaline Electrolytes: Mechanisms, Challenges, and Prospective Solutions. Advanced Science, 2018, 5, 1700464.	11.2	1,022
108	Quantitative proteomic analysis of HeLa cells in response to biocompatible Fe ₂ C@C nanoparticles: ¹⁶ O/ ¹⁸ O-labelling & HPLC-ESI-orbit-trap profiling approach. Toxicology Research, 2018, 7, 84-92.	2.1	20

#	ARTICLE	IF	CITATIONS
109	Exfoliation Behavior of van der Waals Strings: Case Study of Bi ₂ S ₃ . ACS Applied Materials & Interfaces, 2018, 10, 42603-42611.	8.0	30
110	Iron phosphide encapsulated in P-doped graphitic carbon as efficient and stable electrocatalyst for hydrogen and oxygen evolution reactions. Nanoscale, 2018, 10, 21327-21334.	5.6	91
111	Polarisation insensitive multifunctional metasurfaces based on all-dielectric nanowaveguides. Nanoscale, 2018, 10, 18323-18330.	5.6	98
112	Ultra-small Co/CNTs nanohybrid from metal organic framework with highly efficient microwave absorption. Composites Part B: Engineering, 2018, 152, 316-323.	12.0	133
113	Non-isothermal oxidation kinetics of FeSiAl alloy powder for microwave absorption at high temperature. Composites Part B: Engineering, 2018, 155, 282-287.	12.0	41
114	Synthesis and growth mechanism of various SiO ₂ nanostructures from straight to helical morphologies. Composites Part B: Engineering, 2018, 149, 92-98.	12.0	15
115	Bi ₂ O ₃ monolayers from elemental liquid bismuth. Nanoscale, 2018, 10, 15615-15623.	5.6	52
116	Exploring electric field assisted van der Waals weakening of stratified crystals. Applied Materials Today, 2018, 12, 359-365.	4.3	2
117	Biocompatibility of iron carbide and detection of metals ions signaling proteomic analysis via HPLC/ESI-Orbitrap. Nano Research, 2017, 10, 1912-1923.	10.4	37
118	Unlocking the potential of amorphous red phosphorus films as a long-term stable negative electrode for lithium batteries. Journal of Materials Chemistry A, 2017, 5, 1925-1929.	10.3	24
119	An Efficient Route to Polymeric Electrolyte Membranes with Interparticle Chain Microstructure Toward High-Temperature Lithium-ion Batteries. Advanced Materials Interfaces, 2017, 4, 1601236.	3.7	22
120	Facile Synthesis of Three-Dimensional Sandwiched MnO ₂ @GCs@MnO ₂ Hybrid Nanostructured Electrode for Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2017, 9, 18872-18882.	8.0	52
121	Mechanistic study of graphitic carbon layer and nanosphere formation on the surface of T-ZnO. Inorganic Chemistry Frontiers, 2017, 4, 978-985.	6.0	12
122	Photosensitization of TiO ₂ nanofibers by Ag ₂ S with the synergistic effect of excess surface Ti ³⁺ states for enhanced photocatalytic activity under simulated sunlight. Scientific Reports, 2017, 7, 255.	3.3	50
123	2D Layered Graphitic Carbon Nitride Sandwiched with Reduced Graphene Oxide as Nanoarchitected Anode for Highly Stable Lithium-ion Battery. Electrochimica Acta, 2017, 237, 69-77.	5.2	51
124	Synergic Adsorption & Biodegradation by an Advanced Carrier for Enhanced Removal of High-Strength Nitrogen and Refractory Organics. ACS Applied Materials & Interfaces, 2017, 9, 13188-13200.	8.0	54
125	Effects of porous carrier size on biofilm development, microbial distribution and nitrogen removal in microaerobic bioreactors. Bioresource Technology, 2017, 234, 360-369.	9.6	87
126	Highly active two dimensional In_2MoO_7 for the electrocatalytic hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 24223-24231.	10.3	166

#	ARTICLE	IF	CITATIONS
127	High-Valence-State NiO/Co ₃ O ₄ Nanoparticles on Nitrogen-Doped Carbon for Oxygen Evolution at Low Overpotential. ACS Energy Letters, 2017, 2, 2177-2182.	17.4	200
128	CoP nanoparticles embedded in P and N co-doped carbon as efficient bifunctional electrocatalyst for water splitting. Journal of Energy Chemistry, 2017, 26, 1223-1230.	12.9	98
129	Improved thermoelectric performance of BiCuSeO by Ag substitution at Cu site. Journal of Alloys and Compounds, 2017, 691, 572-577.	5.5	38
130	Insight the Luminescence Properties of AlON: Eu, Mg Phosphor under VUV Excitation. Materials, 2017, 10, 723.	2.9	9
131	Lithium-Sulfur Batteries: 3D Vertically Aligned and Interconnected Porous Carbon Nanosheets as Sulfur Immobilizers for High Performance Lithium-Sulfur Batteries (Adv. Energy Mater. 12/2016). Advanced Energy Materials, 2016, 6, .	19.5	0
132	Nanostructured Anode Materials for Lithium Ion Batteries: Progress, Challenge and Perspective. Advanced Energy Materials, 2016, 6, 1600374.	19.5	383
133	Catalytic growth of multi-walled carbon nanotubes using NiFe ₂ O ₄ nanoparticles and incorporation into epoxy matrix for enhanced mechanical properties. Journal of Polymer Engineering, 2016, 36, 53-64.	1.4	18
134	Pronounced effect of ZnTe nano-inclusions on thermoelectric properties of Cu _{2-x} Se chalcogenides. Science China Materials, 2016, 59, 135-143.	6.3	17
135	Fe ₃ C/helical carbon nanotube hybrid: Facile synthesis and spin-induced enhancement in microwave-absorbing properties. Composites Part B: Engineering, 2016, 107, 51-58.	12.0	76
136	Fabrication of zero to three dimensional nanostructured molybdenum sulfides and their electrochemical and photocatalytic applications. Nanoscale, 2016, 8, 18250-18269.	5.6	79
137	Vapor-Phase Dissociation-Solid Growth of Three-Dimensional Graphite-like Capsules with Delicate Morphology and Atomic-level Thickness Control. Crystal Growth and Design, 2016, 16, 5040-5048.	3.0	27
138	Efficient water oxidation through strongly coupled graphitic C ₃ N ₄ coated cobalt hydroxide nanowires. Journal of Materials Chemistry A, 2016, 4, 12940-12946.	10.3	88
139	3D Vertically Aligned and Interconnected Porous Carbon Nanosheets as Sulfur Immobilizers for High Performance Lithium-Sulfur Batteries. Advanced Energy Materials, 2016, 6, 1502518.	19.5	138
140	High Capacity Retention Anode Material for Lithium Ion Battery. Electrochimica Acta, 2016, 211, 156-163.	5.2	44
141	Solid waste for energy storage material as electrode of supercapacitors. Materials Letters, 2016, 181, 191-195.	2.6	12
142	Cd-doping a facile approach for better thermoelectric transport properties of BiCuSeO oxyselenides. RSC Advances, 2016, 6, 33789-33797.	3.6	48
143	Enhanced thermoelectric efficiency of Cu _{2-x} Se-Cu ₂ S composite by incorporating Cu ₂ S nanoparticles. Ceramics International, 2016, 42, 8395-8401.	4.8	30
144	Facile Synthesis of Fe ₃ O ₄ /GCs Composites and Their Enhanced Microwave Absorption Properties. ACS Applied Materials & Interfaces, 2016, 8, 6101-6109.	8.0	518

#	ARTICLE	IF	CITATIONS
145	Enhanced Optical Performance of BaMgAl ₁₀ O ₁₇ :Eu ²⁺ Phosphor by a Novel Method of Carbon Coating. Journal of Physical Chemistry C, 2016, 120, 2355-2361.	3.1	51
146	Enhanced Thermoelectric Transport Properties of La _{0.98} Sr _{0.02} CoO ₃ -BiCuSeO Composite. J of Electrical Engineering, 2016, 4, .	0.1	2
147	Self-Healing Materials from π - and π -Shaped Supramolecular Architectures. Angewandte Chemie - International Edition, 2015, 54, 10188-10192.	13.8	110
148	Improved Blue-Emitting AlN:Eu ²⁺ Phosphors by Alloying with GaN. Journal of the American Ceramic Society, 2015, 98, 3897-3904.	3.8	12
149	Hierarchical Heteroaggregation of Binary Metal-Organic Gels with Tunable Porosity and Mixed Valence Metal Sites for Removal of Dyes in Water. Scientific Reports, 2015, 5, 10556.	3.3	82
150	Graphene Polymer Nanocomposites for Fuel Cells. , 2015, , 91-130.		3
151	Enhancement in photoluminescence performance of carbon-decorated T-ZnO. Nanotechnology, 2015, 26, 125705.	2.6	11
152	One Dimensional Graphitic Carbon Nitrides as Effective Metal-Free Oxygen Reduction Catalysts. Scientific Reports, 2015, 5, 12389.	3.3	81
153	Control over large-volume changes of lithium battery anodes via active-inactive metal alloy embedded in porous carbon. Nano Energy, 2015, 15, 755-765.	16.0	51
154	Role of anions on structure and pseudocapacitive performance of metal double hydroxides decorated with nitrogen-doped graphene. Science China Materials, 2015, 58, 114-125.	6.3	27
155	Synthesis of high-purity CuO nanoleaves and analysis of their ethanol gas sensing properties. RSC Advances, 2015, 5, 34788-34794.	3.6	39
156	Synthesis, characterization and optical properties of in situ ZnFe ₂ O ₄ functionalized rGO nano hybrids through modified solvothermal approach. Optical Materials, 2015, 45, 69-75.	3.6	19
157	Bifunctional catalysts of Co ₃ O ₄ @GCN tubular nanostructured (TNS) hybrids for oxygen and hydrogen evolution reactions. Nano Research, 2015, 8, 3725-3736.	10.4	117
158	Preparation and microwave-absorbing property of BaFe ₁₂ O ₁₉ nanoparticles and BaFe ₁₂ O ₁₉ /Fe ₃ C/CNTs composites. RSC Advances, 2015, 5, 91665-91669.	3.6	42
159	Remarkable improvement in microwave absorption by cloaking a micro-scaled tetrapod hollow with helical carbon nanofibers. Physical Chemistry Chemical Physics, 2015, 17, 3024-3031.	2.8	54
160	Chlorine-doped carbonated cobalt hydroxide for supercapacitors with enormously high pseudocapacitive performance and energy density. Nano Energy, 2015, 11, 267-276.	16.0	121
161	Semiconductor-to-metallic flipping in a ZnFe ₂ O ₄ π -graphene based smart nano-system: Temperature/microwave magneto-dielectric spectroscopy. Materials Characterization, 2015, 99, 254-265.	4.4	30
162	Microporous bamboo biochar for lithium-sulfur batteries. Nano Research, 2015, 8, 129-139.	10.4	284

#	ARTICLE	IF	CITATIONS
163	Thermal and mechanical properties of carbon nanotube/epoxy nanocomposites reinforced with pristine and functionalized multiwalled carbon nanotubes. <i>Polymer Composites</i> , 2015, 36, 1891-1898.	4.6	60
164	Electrode Nanostructures in Lithium-Based Batteries. <i>Advanced Science</i> , 2014, 1, 1400012.	11.2	148
165	Graphene-Based Nanomaterials for Energy Conversion and Storage. <i>World Scientific Series on Carbon Nanoscience</i> , 2014, , 51-82.	0.1	2
166	High-purity Cu nanocrystal synthesis by a dynamic decomposition method. <i>Nanoscale Research Letters</i> , 2014, 9, 2499.	5.7	9
167	Graphene-based nanocomposites for energy storage and conversion in lithium batteries, supercapacitors and fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15-32.	10.3	427
168	Controllable synthesis of carbon coils and growth mechanism for twinning double-helix catalyzed by Ni nanoparticle. <i>Composites Part B: Engineering</i> , 2014, 61, 350-357.	12.0	20
169	Pristine organo-imido polyoxometalates as an anode for lithium ion batteries. <i>RSC Advances</i> , 2014, 4, 7374.	3.6	40
170	The synergistic effect between WO ₃ and g-C ₃ N ₄ towards efficient visible-light-driven photocatalytic performance. <i>New Journal of Chemistry</i> , 2014, 38, 5462-5469.	2.8	69
171	Length evolution of helical micro/nano-scale structures. <i>RSC Advances</i> , 2014, 4, 31308-31312.	3.6	2
172	Graphene and its composites with nanoparticles for electrochemical energy applications. <i>Nano Today</i> , 2014, 9, 668-683.	11.9	230
173	Large scale production of novel g-C ₃ N ₄ micro strings with high surface area and versatile photodegradation ability. <i>CrystEngComm</i> , 2014, 16, 1825.	2.6	96
174	Synthesis of Novel ZnV ₂ O ₄ Hierarchical Nanospheres and Their Applications as Electrochemical Supercapacitor and Hydrogen Storage Material. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13635-13641.	8.0	150
175	Controllable preparation of Ni nanoparticles for catalysis of coiled carbon fibers growth. <i>Nanoscale Research Letters</i> , 2014, 9, 370.	5.7	10
176	Multifunctional g-C ₃ N ₄ Nanofibers: A Template-Free Fabrication and Enhanced Optical, Electrochemical, and Photocatalyst Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1258-1265.	8.0	360
177	Template free synthesis of CuS nanosheet-based hierarchical microspheres: an efficient natural light driven photocatalyst. <i>CrystEngComm</i> , 2014, 16, 5290.	2.6	147
178	Polyamide-6-based composites reinforced with pristine or functionalized multi-walled carbon nanotubes produced using melt extrusion technique. <i>Journal of Composite Materials</i> , 2014, 48, 1197-1207.	2.4	64
179	Synthesis of Phosphorus-Doped Graphene and its Multifunctional Applications for Oxygen Reduction Reaction and Lithium Ion Batteries. <i>Advanced Materials</i> , 2013, 25, 4932-4937.	21.0	915
180	Hybrid of Co ₃ Sn ₂ @Co Nanoparticles and Nitrogen-Doped Graphene as a Lithium Ion Battery Anode. <i>ACS Nano</i> , 2013, 7, 10307-10318.	14.6	194

#	ARTICLE	IF	CITATIONS
181	Tubular graphitic-C ₃ N ₄ : a prospective material for energy storage and green photocatalysis. Journal of Materials Chemistry A, 2013, 1, 13949.	10.3	238
182	Nickel Sulfide/Nitrogen-Doped Graphene Composites: Phase-Controlled Synthesis and High Performance Anode Materials for Lithium Ion Batteries. Small, 2013, 9, 1321-1328.	10.0	297
183	Polyamide 6/Multiwalled Carbon Nanotubes Nanocomposites with Modified Morphology and Thermal Properties. Polymers, 2013, 5, 1380-1391.	4.5	88
184	Multifunctional Co ₃ S ₄ /Graphene Composites for Lithium Ion Batteries and Oxygen Reduction Reaction. Chemistry - A European Journal, 2013, 19, 5183-5190.	3.3	219
185	SnS ₂ /Graphene Composites: Excellent Anode Materials for Lithium Ion Battery and Photolysis Catalysts. Science of Advanced Materials, 2013, 5, 1667-1675.	0.7	33
186	Gas-Induced Formation of Cu Nanoparticle as Catalyst for High-Purity Straight and Helical Carbon Nanofibers. ACS Nano, 2012, 6, 8611-8619.	14.6	50
187	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.	3.1	7
188	Preparation of high purity helical carbon nanofibers by the catalytic decomposition of acetylene and their growth mechanism. Carbon, 2010, 48, 4535-4541.	10.3	40
189	Polyamide-6-based composites reinforced with pristine or functionalized multi-walled carbon nanotubes produced using melt extrusion technique. , 0, .		1