

Nasir Mahmood

List of Publications by Year in Descending Order

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Version: 2024-04-27

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

183
papers

10,195
citations

50
h-index

97
g-index

189
ext. papers

12,504
ext. citations

9.7
avg. IF

6.72
L-index

#	Paper	IF	Citations
183	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 , 164151	5.7	1
182	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	3.6	0
181	Symmetrical growth of carbon nanotube arrays on FeSiAl micro-flake for enhancement of lithium-ion battery capacity. <i>Carbon</i> , 2022 , 189, 93-103	10.4	4
180	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	5.7	1
179	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	5.7	2
178	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	7.1	1
177	Synthesis of monolayer carbon-coated TiO ₂ as visible-light-responsive photocatalysts. <i>Applied Materials Today</i> , 2022 , 27, 101498	6.6	2
176	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	16.2	7
175	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	6.7	1
174	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	5.7	2
173	Highly accurate and label-free discrimination of single cancer cell using a plasmonic oxide-based nanoprobe. <i>Biosensors and Bioelectronics</i> , 2021 , 113814	11.8	4
172	Recent development in emerging phosphorene based novel materials: Progress, challenges, prospects and their fascinating sensing applications. <i>Progress in Solid State Chemistry</i> , 2021 , 100336	8	3
171	Hetero-metallic metal-organic frameworks for room-temperature NO sensing.. <i>Journal of Colloid and Interface Science</i> , 2021 , 610, 304-312	9.3	0
170	Recent development in graphdiyne and its derivative materials for novel biomedical applications. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 9461-9484	7.3	3
169	High- 2D SbO Made Using a Substrate-Independent and Low-Temperature Liquid-Metal-Based Process. <i>ACS Nano</i> , 2021 , 15, 16067-16075	16.7	8
168	Green-maturation of Cobalt-Oxide nano-sponges for reinforced bacterial apoptosis. <i>Colloids and Interface Science Communications</i> , 2021 , 45, 100531	5.4	2
167	Fluorinated graphite nanosheets for ultrahigh-capacity lithium primary batteries. <i>Rare Metals</i> , 2021 , 40, 1708-1718	5.5	9

166	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	6.1	4
165	Plasmonic metal-organic framework nanocomposites enabled by degenerately doped molybdenum oxides. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 305-314	9.3	10
164	Maximum piezoelectricity in a few unit-cell thick planar ZnO [A liquid metal-based synthesis approach. <i>Materials Today</i> , 2021 , 44, 69-77	21.8	16
163	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	14.7	12
162	A Visible-Blind Photodetector and Artificial Optoelectronic Synapse Using Liquid-Metal Exfoliated ZnO Nanosheets. <i>Advanced Optical Materials</i> , 2021 , 9, 2100449	8.1	16
161	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	9.5	10
160	Iron-doped zinc oxide for photocatalyzed degradation of humic acid from municipal wastewater. <i>Applied Materials Today</i> , 2021 , 23, 101047	6.6	7
159	Recent advances in hybrid wet scrubbing techniques for NO and SO removal: State of the art and future research. <i>Chemosphere</i> , 2021 , 273, 129695	8.4	14
158	Hybrid silica-carbon bilayers anchoring on FeSiAl surface with bifunctions of enhanced anti-corrosion and microwave absorption. <i>Carbon</i> , 2021 , 173, 185-193	10.4	43
157	Bioinspired synthesis of zinc oxide nano-flowers: A surface enhanced antibacterial and harvesting efficiency. <i>Materials Science and Engineering C</i> , 2021 , 119, 111280	8.3	35
156	Strain-regulated sensing properties of Fe ₂ O ₃ nano-cylinders with atomic carbon layers for ethanol detection. <i>Journal of Materials Science and Technology</i> , 2021 , 68, 132-139	9.1	4
155	A review of helical carbon materials structure, synthesis and applications. <i>Rare Metals</i> , 2021 , 40, 3-19	5.5	21
154	Recent Progress on the Development of Carbon Nitride Based All-Solid Z-Scheme Photocatalyst for Solar Energy Conversion Applications. <i>Energy Technology</i> , 2021 , 2000950	3.5	5
153	Sensing Applications of Atomically Thin Group IV Carbon Siblings Xenos: Progress, Challenges, and Prospects. <i>Advanced Functional Materials</i> , 2021 , 31, 2005957	15.6	21
152	Bioinspired synthesis of inorganic nanomaterials 2021 , 171-200		
151	Phytotoxic Evaluation of Phytosynthesized Silver Nanoparticles on Lettuce. <i>Coatings</i> , 2021 , 11, 225	2.9	10
150	Vulnerability and Impact Analysis of the IEC 61850 GOOSE Protocol in the Smart Grid. <i>Sensors</i> , 2021 , 21,	3.8	9
149	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	5.9	9

148	Atomic-Scale Layer-by-Layer Deposition of FeSiAl@ZnO@AlO Hybrid with Threshold Anti-Corrosion and Ultra-High Microwave Absorption Properties in Low-Frequency Bands. <i>Nano-Micro Letters</i> , 2021 , 13, 161	19.5	22
147	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	6	4
146	The role of nitrogen in transition-metal nitrides in electrochemical water splitting. <i>Chem Catalysis</i> , 2021 , 1, 802-854		13
145	Thermally activated epoxy-functionalized carbon as an electrocatalyst for efficient NO _x reduction. <i>Carbon</i> , 2021 , 182, 516-524	10.4	5
144	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	6.7	3
143	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	19.4	12
142	Inorganic/organic bilayer of silica/acrylic polyurethane decorating FeSiAl for enhanced anti-corrosive microwave absorption. <i>Applied Surface Science</i> , 2021 , 567, 150829	6.7	8
141	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	5.7	2
140	A mechanistic study of electrode materials for rechargeable batteries beyond lithium ions by in situ transmission electron microscopy. <i>Energy and Environmental Science</i> , 2021 , 14, 2670-2707	35.4	10
139	Interface chemistry of two-dimensional heterostructures - fundamentals to applications. <i>Chemical Society Reviews</i> , 2021 , 50, 4684-4729	58.5	51
138	In situ regulation of microstructure and microwave-absorbing properties of FeSiAl through HNO ₃ oxidation. <i>Nanotechnology Reviews</i> , 2021 , 11, 147-157	6.3	0
137	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	5.7	16
136	Porous quasi-graphitic carbon sheets for unprecedented sodium storage. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 2443-2450	6.8	1
135	Synthesis, properties and novel electrocatalytic applications of the 2D-borophene Xenes. <i>Progress in Solid State Chemistry</i> , 2020 , 59, 100283	8	35
134	Carbon Fibers Embedded With Iron Selenide (Fe Se) as Anode for High-Performance Sodium and Potassium Ion Batteries. <i>Frontiers in Chemistry</i> , 2020 , 8, 408	5	11
133	Liquid metal-based synthesis of high performance monolayer SnS piezoelectric nanogenerators. <i>Nature Communications</i> , 2020 , 11, 3449	17.4	69
132	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	5.7	20
131	Synthesis of two-dimensional hematite and iron phosphide for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2789-2797	13	39

130	A Dual Protection System for Heterostructured 3D CNT/CoSe/C as High Areal Capacity Anode for Sodium Storage. <i>Advanced Science</i> , 2020 , 7, 1902907	13.6	50
129	A review for modified Li composite anode: Principle, preparation and challenge. <i>Nanotechnology Reviews</i> , 2020 , 9, 1610-1624	6.3	5
128	Nanotechnology in Early Detection and Treatment of Amyloidosis. <i>Nanotechnology in the Life Sciences</i> , 2020 , 185-207	1.1	
127	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	14.7	102
126	Mixed-dimensional heterostructures of hydrophobic/hydrophilic graphene foam for tunable hydrogen evolution reaction. <i>Chemosphere</i> , 2020 , 245, 125607	8.4	20
125	Large magnetotransport properties in mixed-dimensional van der Waals heterostructures of graphene foam. <i>Carbon</i> , 2020 , 159, 648-655	10.4	11
124	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	4.6	12
123	Broadband Photodetectors: Liquid-Metal Synthesized Ultrathin SnS Layers for High-Performance Broadband Photodetectors (Adv. Mater. 45/2020). <i>Advanced Materials</i> , 2020 , 32, 2070338	24	2
122	Electrocatalytic hydrogen evolution under neutral pH conditions: current understandings, recent advances, and future prospects. <i>Energy and Environmental Science</i> , 2020 , 13, 3185-3206	35.4	85
121	Core-Shell FeSe /C Nanostructures Embedded in a Carbon Framework as a Free Standing Anode for a Sodium Ion Battery. <i>Small</i> , 2020 , 16, e2002200	11	26
120	Physiological and anti-oxidative response of biologically and chemically synthesized iron oxide:. <i>Heliyon</i> , 2020 , 6, e04595	3.6	8
119	Bifunctional water-electrolysis-catalysts meeting band-diagram analysis: case study of BeP electrodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20021-20029	13	15
118	Liquid-Metal Synthesized Ultrathin SnS Layers for High-Performance Broadband Photodetectors. <i>Advanced Materials</i> , 2020 , 32, e2004247	24	34
117	Nitrogen-Doped Oxygenated Molybdenum Phosphide as an Efficient Electrocatalyst for Hydrogen Evolution in Alkaline Media. <i>Frontiers in Chemistry</i> , 2020 , 8, 733	5	9
116	Recent Progress, Challenges, and Prospects in Two-Dimensional Photo-Catalyst Materials and Environmental Remediation. <i>Nano-Micro Letters</i> , 2020 , 12, 167	19.5	35
115	Heat-Resistant Trilayer Separators for High-Performance Lithium-Ion Batteries. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 1900504	2.5	6
114	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	9.2	35
113	Synthesis of silver nanoparticles using <i>Fagonia cretica</i> and their antimicrobial activities. <i>Nanoscale Advances</i> , 2019 , 1, 1707-1713	5.1	29

112	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	10.3	60
111	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	14.7	30
110	Ordered intracrystalline pores in planar molybdenum oxide for enhanced alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 257-268	13	52
109	Rationally designed La and Se co-doped bismuth ferrites with controlled bandgap for visible light photocatalysis. <i>RSC Advances</i> , 2019 , 9, 17148-17156	3.7	15
108	Unveiling Property of Hydrolysis-Derived DMAPbI for Perovskite Devices: Composition Engineering, Defect Mitigation, and Stability Optimization. <i>IScience</i> , 2019 , 15, 165-172	6.1	66
107	Synthesis of Loureirin B-Loaded Nanoliposomes for Pharmacokinetics in Rat Plasma. <i>ACS Omega</i> , 2019 , 4, 6914-6922	3.9	11
106	Superior Magnetoresistance Performance of Hybrid Graphene Foam/Metal Sulfide Nanocrystal Devices. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19397-19403	9.5	20
105	High-Temperature Oxidation-Resistant ZrNB/SiC Nanohybrid for Enhanced Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15869-15880	9.5	110
104	An Upgraded Lithium Ion Battery Based on a Polymeric Separator Incorporated with Anode Active Materials. <i>Advanced Energy Materials</i> , 2019 , 9, 1803627	21.8	31
103	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	12
102	Graphene decorated polymeric flexible materials for lightweight high areal energy lithium-ion batteries. <i>Applied Materials Today</i> , 2019 , 17, 123-129	6.6	28
101	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	0.8	1
100	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	5.6	42
99	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	21.8	132
98	Carbon-decorated LiMn ₂ O ₄ nanorods with enhanced performance for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 624-630	5.7	7
97	Preparation of low-permittivity K ₂ O/B ₂ O ₃ /SiO ₂ /Al ₂ O ₃ composites without the addition of glass. <i>Nanotechnology Reviews</i> , 2019 , 8, 459-466	6.3	3
96	A brief review for fluorinated carbon: synthesis, properties and applications. <i>Nanotechnology Reviews</i> , 2019 , 8, 573-586	6.3	35
95	In Vivo and In Vitro Monitoring of Amyloid Aggregation via BSA@FGQDs Multimodal Probe. <i>ACS Sensors</i> , 2019 , 4, 200-210	9.2	33

94	Investigation of electrical properties of pressureless sintered ZrB ₂ -based ceramics. <i>Ceramics International</i> , 2019 , 45, 7717-7722	5.1	7
93	Oxidation behaviour of plasma-sprayed ZrB ₂ -SiC coatings. <i>Ceramics International</i> , 2019 , 45, 2385-2392	5.1	19
92	Atomically thin two-dimensional metal oxide nanosheets and their heterostructures for energy storage. <i>Energy Storage Materials</i> , 2019 , 16, 455-480	19.4	76
91	Heterostructured Nanorings of Fe-FeO@C Hybrid with Enhanced Microwave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9369-9378	9.5	180
90	Liquid metals: fundamentals and applications in chemistry. <i>Chemical Society Reviews</i> , 2018 , 47, 4073-4111	18.5	432
89	Biological entities as chemical reactors for synthesis of nanomaterials: Progress, challenges and future perspective. <i>Materials Today Chemistry</i> , 2018 , 8, 13-28	6.2	73
88	Evolution of 2D tin oxides on the surface of molten tin. <i>Chemical Communications</i> , 2018 , 54, 2102-2105	5.8	17
87	High-performance infrared emissivity of micro-arc oxidation coatings formed on titanium alloy for aerospace applications. <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 579-591	2	6
86	Engineering Cobalt Defects in Cobalt Oxide for Highly Efficient Electrocatalytic Oxygen Evolution. <i>ACS Catalysis</i> , 2018 , 8, 3803-3811	13.1	276
85	A novel strategy to motivate the luminescence efficiency of a phosphor: drilling nanoholes on the surface. <i>Chemical Communications</i> , 2018 , 54, 3480-3483	5.8	22
84	Oxygen-doped nanoporous carbon nitride via water-based homogeneous supramolecular assembly for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 9-16	21.8	153
83	BiO monolayers from elemental liquid bismuth. <i>Nanoscale</i> , 2018 , 10, 15615-15623	7.7	36
82	Exploring electric field assisted van der Waals weakening of stratified crystals. <i>Applied Materials Today</i> , 2018 , 12, 359-365	6.6	2
81	Electrocatalysts for Hydrogen Evolution in Alkaline Electrolytes: Mechanisms, Challenges, and Prospective Solutions. <i>Advanced Science</i> , 2018 , 5, 1700464	13.6	647
80	Quantitative proteomic analysis of HeLa cells in response to biocompatible FeC@C nanoparticles: O/O-labelling & HPLC-ESI-orbit-trap profiling approach. <i>Toxicology Research</i> , 2018 , 7, 84-92	2.6	11
79	Exfoliation Behavior of van der Waals Strings: Case Study of BiS. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42603-42611	9.5	23
78	Iron phosphide encapsulated in P-doped graphitic carbon as efficient and stable electrocatalyst for hydrogen and oxygen evolution reactions. <i>Nanoscale</i> , 2018 , 10, 21327-21334	7.7	58
77	Polarisation insensitive multifunctional metasurfaces based on all-dielectric nanowaveguides. <i>Nanoscale</i> , 2018 , 10, 18323-18330	7.7	55

76	Ultra-small Co/CNTs nanohybrid from metal organic framework with highly efficient microwave absorption. <i>Composites Part B: Engineering</i> , 2018 , 152, 316-323	10	70
75	Non-isothermal oxidation kinetics of FeSiAl alloy powder for microwave absorption at high temperature. <i>Composites Part B: Engineering</i> , 2018 , 155, 282-287	10	27
74	Synthesis and growth mechanism of various SiO ₂ nanostructures from straight to helical morphologies. <i>Composites Part B: Engineering</i> , 2018 , 149, 92-98	10	14
73	Biocompatibility of iron carbide and detection of metals ions signaling proteomic analysis via HPLC/ESI-Orbitrap. <i>Nano Research</i> , 2017 , 10, 1912-1923	10	21
72	Unlocking the potential of amorphous red phosphorus films as a long-term stable negative electrode for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1925-1929	13	17
71	An Efficient Route to Polymeric Electrolyte Membranes with Interparticle Chain Microstructure Toward High-Temperature Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1601236	4.6	21
70	Facile Synthesis of Three-Dimensional Sandwiched MnO@GCs@MnO Hybrid Nanostructured Electrode for Electrochemical Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18872-18882	9.5	43
69	Mechanistic study of graphitic carbon layer and nanosphere formation on the surface of T-ZnO. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 978-985	6.8	12
68	Photosensitization of TiO nanofibers by AgS with the synergistic effect of excess surface Ti states for enhanced photocatalytic activity under simulated sunlight. <i>Scientific Reports</i> , 2017 , 7, 255	4.9	39
67	2D Layered Graphitic Carbon Nitride Sandwiched with Reduced Graphene Oxide as Nanoarchitected Anode for Highly Stable Lithium-ion Battery. <i>Electrochimica Acta</i> , 2017 , 237, 69-77	6.7	45
66	Synergic Adsorption-Biodegradation by an Advanced Carrier for Enhanced Removal of High-Strength Nitrogen and Refractory Organics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13188-13200 ²⁴	9.5	24
65	Effects of porous carrier size on biofilm development, microbial distribution and nitrogen removal in microaerobic bioreactors. <i>Bioresource Technology</i> , 2017 , 234, 360-369	11	45
64	Highly active two dimensional MoO ₃ for the electrocatalytic hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24223-24231	13	118
63	High-Valence-State NiO/Co ₃ O ₄ Nanoparticles on Nitrogen-Doped Carbon for Oxygen Evolution at Low Overpotential. <i>ACS Energy Letters</i> , 2017 , 2, 2177-2182	20.1	150
62	CoP nanoparticles embedded in P and N co-doped carbon as efficient bifunctional electrocatalyst for water splitting. <i>Journal of Energy Chemistry</i> , 2017 , 26, 1223-1230	12	78
61	Improved thermoelectric performance of BiCuSeO by Ag substitution at Cu site. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 572-577	5.7	31
60	Insight the Luminescence Properties of AlON: Eu, Mg Phosphor under VUV Excitation. <i>Materials</i> , 2017 , 10,	3.5	7
59	Efficient water oxidation through strongly coupled graphitic C ₃ N ₄ coated cobalt hydroxide nanowires. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12940-12946	13	70

58	3D Vertically Aligned and Interconnected Porous Carbon Nanosheets as Sulfur Immobilizers for High Performance Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502518	21.8	115
57	High Capacity Retention Anode Material for Lithium Ion Battery. <i>Electrochimica Acta</i> , 2016 , 211, 156-1636.7	3.4	34
56	Solid waste for energy storage material as electrode of supercapacitors. <i>Materials Letters</i> , 2016 , 181, 191-195	3.3	8
55	Cd-doping a facile approach for better thermoelectric transport properties of BiCuSeO oxyselenides. <i>RSC Advances</i> , 2016 , 6, 33789-33797	3.7	39
54	Enhanced thermoelectric efficiency of Cu ₂ Se/Cu ₂ S composite by incorporating Cu ₂ S nanoparticles. <i>Ceramics International</i> , 2016 , 42, 8395-8401	5.1	24
53	Facile Synthesis of Fe ₃ O ₄ /GCs Composites and Their Enhanced Microwave Absorption Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6101-9	9.5	407
52	Enhanced Optical Performance of BaMgAl ₁₀ O ₁₇ :Eu ²⁺ Phosphor by a Novel Method of Carbon Coating. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2355-2361	3.8	47
51	Nanostructured Anode Materials for Lithium Ion Batteries: Progress, Challenge and Perspective. <i>Advanced Energy Materials</i> , 2016 , 6, 1600374	21.8	294
50	Catalytic growth of multi-walled carbon nanotubes using NiFe ₂ O ₄ nanoparticles and incorporation into epoxy matrix for enhanced mechanical properties. <i>Journal of Polymer Engineering</i> , 2016 , 36, 53-64	1.4	15
49	Pronounced effect of ZnTe nanoinclusions on thermoelectric properties of Cu ₂ Se chalcogenides. <i>Science China Materials</i> , 2016 , 59, 135-143	7.1	12
48	Fe ₃ C/helical carbon nanotube hybrid: Facile synthesis and spin-induced enhancement in microwave-absorbing properties. <i>Composites Part B: Engineering</i> , 2016 , 107, 51-58	10	65
47	Fabrication of zero to three dimensional nanostructured molybdenum sulfides and their electrochemical and photocatalytic applications. <i>Nanoscale</i> , 2016 , 8, 18250-18269	7.7	66
46	Vapor Dissociation Solid Growth of Three-Dimensional Graphite-like Capsules with Delicate Morphology and Atomic-level Thickness Control. <i>Crystal Growth and Design</i> , 2016 , 16, 5040-5048	3.5	22
45	Enhancement in photoluminescence performance of carbon-decorated T-ZnO. <i>Nanotechnology</i> , 2015 , 26, 125705	3.4	11
44	One Dimensional Graphitic Carbon Nitrides as Effective Metal-Free Oxygen Reduction Catalysts. <i>Scientific Reports</i> , 2015 , 5, 12389	4.9	70
43	Control over large-volume changes of lithium battery anodes via active/inactive metal alloy embedded in porous carbon. <i>Nano Energy</i> , 2015 , 15, 755-765	17.1	46
42	Role of anions on structure and pseudocapacitive performance of metal double hydroxides decorated with nitrogen-doped graphene. <i>Science China Materials</i> , 2015 , 58, 114-125	7.1	22
41	Synthesis of high-purity CuO nanoleaves and analysis of their ethanol gas sensing properties. <i>RSC Advances</i> , 2015 , 5, 34788-34794	3.7	31

40	Synthesis, characterization and optical properties of in situ ZnFe ₂ O ₄ functionalized rGO nano hybrids through modified solvothermal approach. <i>Optical Materials</i> , 2015 , 45, 69-75	3.3	15
39	Bifunctional catalysts of Co ₃ O ₄ @GCN tubular nanostructured (TNS) hybrids for oxygen and hydrogen evolution reactions. <i>Nano Research</i> , 2015 , 8, 3725-3736	10	86
38	Preparation and microwave-absorbing property of BaFe ₁₂ O ₁₉ nanoparticles and BaFe ₁₂ O ₁₉ /Fe ₃ C/CNTs composites. <i>RSC Advances</i> , 2015 , 5, 91665-91669	3.7	36
37	Remarkable improvement in microwave absorption by cloaking a micro-scaled tetrapod hollow with helical carbon nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3024-31	3.6	48
36	Chlorine-doped carbonated cobalt hydroxide for supercapacitors with enormously high pseudocapacitive performance and energy density. <i>Nano Energy</i> , 2015 , 11, 267-276	17.1	89
35	Semiconductor-to-metallic flipping in a ZnFe ₂ O ₄ /graphene based smart nano-system: Temperature/microwave magneto-dielectric spectroscopy. <i>Materials Characterization</i> , 2015 , 99, 254-265	3.9	26
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32	Self-Healing Materials from V- and H-Shaped Supramolecular Architectures. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10188-92	16.4	98
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26	Length evolution of helical micro/nano-scale structures. <i>RSC Advances</i> , 2014 , 4, 31308-31312	3.7	2
25	Graphene and its composites with nanoparticles for electrochemical energy applications. <i>Nano Today</i> , 2014 , 9, 668-683	17.9	204
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14	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	10	18
13	Synthesis of phosphorus-doped graphene and its multifunctional applications for oxygen reduction reaction and lithium ion batteries. <i>Advanced Materials</i> , 2013 , 25, 4932-7	24	810
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3			
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