

Renchao Che

List of Publications by Year in Descending Order

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Version: 2024-04-20

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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.

241
papers

12,234
citations

58
h-index

103
g-index

252
ext. papers

16,566
ext. citations

11
avg, IF

7.1
L-index

#	Paper	IF	Citations
241	Hollow MoC/NC sphere for electromagnetic wave attenuation: direct observation of interfacial polarization on nanoscale hetero-interfaces. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1290-1298	13	6
240	Multi-dimensional C@NiCo-LDHs@Ni aerogel: Structural and componential engineering towards efficient microwave absorption, anti-corrosion and thermal-insulation. <i>Carbon</i> , 2022 , 191, 625-625	10.4	5
239	Dual-surfactant templated hydrothermal synthesis of CoSe ₂ hierarchical microclews for dielectric microwave absorption. <i>Journal of Advanced Ceramics</i> , 2022 , 11, 504-514	10.7	1
238	General biotemplating of hierarchically ultra-vesicular microspheres for superior microwave absorption. <i>Chemical Engineering Journal</i> , 2022 , 431, 133925	14.7	1
237	Integrating hierarchical interfacial polarization in yeast-derived Mo ₂ C/C nanoflower/microsphere nanoarchitecture for boosting microwave absorption performance. <i>Carbon</i> , 2022 , 189, 530-538	10.4	1
236	Superstructure silver micro-tube composites for ultrahigh electromagnetic wave shielding. <i>Chemical Engineering Journal</i> , 2022 , 430, 132949	14.7	13
235	Growth of magnetic metals on carbon microspheres with synergetic dissipation abilities to broaden microwave absorption. <i>Journal of Materials Science and Technology</i> , 2022 , 107, 100-110	9.1	3
234	Conductivity optimization via intertwined CNTs between TiNbO@C microspheres for a superior performance Li-ion battery anode. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 1103-1108	9.3	3
233	Liquid metal coated copper micro-particles to construct core-shell structure and multiple heterojunctions for high-efficiency microwave absorption. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 210-218	9.3	6
232	Interface compatibility engineering of Multi-shell Fe@C@TiO ₂ @MoS ₂ heterojunction expanded microwave absorption bandwidth. <i>Chemical Engineering Journal</i> , 2022 , 429, 132191	14.7	11
231	Recent Advances in Design Strategies and Multifunctionality of Flexible Electromagnetic Interference Shielding Materials.. <i>Nano-Micro Letters</i> , 2022 , 14, 80	19.5	10
230	Atomic short-range order in a cation-deficient perovskite anode for fast-charging and long-life lithium-ion batteries.. <i>Advanced Materials</i> , 2022 , e2200914	24	1
229	Self-Assembly MXene-rGO/CoNi Film with Massive Continuous Heterointerfaces and Enhanced Magnetic Coupling for Superior Microwave Absorber.. <i>Nano-Micro Letters</i> , 2022 , 14, 73	19.5	4
228	Temperature induced transformation of Co@C nanoparticle in 3D hierarchical core-shell nanofiber network for enhanced electromagnetic wave adsorption. <i>Carbon</i> , 2022 ,	10.4	1
227	Ultrahigh Density of Atomic CoFe-Electron Synergy in Noncontinuous Carbon Matrix for Highly Efficient Magnetic Wave Adsorption.. <i>Nano-Micro Letters</i> , 2022 , 14, 96	19.5	3
226	Customizing Heterointerfaces in Multilevel Hollow Architecture Constructed by Magnetic Spindle Arrays Using the Polymerizing-Etching Strategy for Boosting Microwave Absorption.. <i>Advanced Science</i> , 2022 , e2200804	13.6	5
225	Dimensional Design and Core-Shell Engineering of Nanomaterials for Electromagnetic Wave Absorption. <i>Advanced Materials</i> , 2021 , e2107538	24	37

224	Impedance amelioration of coaxial-electrospun TiO ₂ @Fe/C@TiO ₂ vesicular carbon microtubes with dielectric-magnetic synergy toward highly efficient microwave absorption. <i>Chemical Engineering Journal</i> , 2021 , 133640	14.7	2
223	Zero-strain Ca _{0.4} Ce _{0.6} VO ₄ anode material for high capacity and long-life Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 25663-25671	13	0
222	Synthesis of Nonspherical Hollow Architecture with Magnetic Fe Core and Ni Decorated Tadpole-Like Shell as Ultrabroad Bandwidth Microwave Absorbers. <i>Small</i> , 2021 , 17, e2103351	11	3
221	1D Electromagnetic-Gradient Hierarchical Carbon Microtube via Coaxial Electrospinning Design for Enhanced Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15939-15949	9.5	14
220	Ultrathin flexible poly(vinylidene fluoride)/MXene/silver nanowire film with outstanding specific EMI shielding and high heat dissipation. <i>Advanced Composites and Hybrid Materials</i> , 2021 , 4, 505-513	8.7	65
219	MXene/FeCo films with distinct and tunable electromagnetic wave absorption by morphology control and magnetic anisotropy. <i>Carbon</i> , 2021 , 175, 509-518	10.4	37
218	Hollow microspheres of polypyrrole/magnetite/carbon nanotubes by spray-dry as an electromagnetic synergistic microwave absorber. <i>Carbon</i> , 2021 , 175, 499-508	10.4	17
217	Hollow Engineering to Co@N-Doped Carbon Nanocages via Synergistic Protecting-Etching Strategy for Ultrahigh Microwave Absorption. <i>Advanced Functional Materials</i> , 2021 , 31, 2102812	15.6	175
216	C/MnO@void@C with Triple Balances for Superior Microwave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32037-32045	9.5	10
215	Direct View on the Origin of High Li ⁺ Transfer Impedance in All-Solid-State Battery. <i>Advanced Functional Materials</i> , 2021 , 31, 2103971	15.6	5
214	Charge modulation of CNTs-based conductive network for oxygen reduction reaction and microwave absorption. <i>Carbon</i> , 2021 , 178, 310-319	10.4	9
213	A Polarization Boosted Strategy for the Modification of Transition Metal Dichalcogenides as Electrocatalysts for Water-Splitting. <i>Small</i> , 2021 , 17, e2100510	11	4
212	High-Performance Joule Heating and Electromagnetic Shielding Properties of Anisotropic Carbon Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29101-29112	9.5	12
211	Insights into Growth-Oriented Interfacial Modulation within Semiconductor Multilayers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27262-27269	9.5	2
210	Understanding of Strain-Induced Electronic Structure Changes in Metal-Based Electrocatalysts: Using Pd@Pt Core-Shell Nanocrystals as an Ideal Platform. <i>Small</i> , 2021 , 17, e2100559	11	6
209	Multi-Path Electron Transfer in 1D Double-Shelled Sn@Mo C/C Tubes with Enhanced Dielectric Loss for Boosting Microwave Absorption Performance. <i>Small</i> , 2021 , 17, e2100283	11	9
208	Single Zinc Atoms Anchored on MOF-Derived N-Doped Carbon Shell Cooperated with Magnetic Core as an Ultrawideband Microwave Absorber. <i>Small</i> , 2021 , 17, e2101416	11	29
207	Enhanced Magnetic Microwave Absorption at Low-Frequency Band by Ferrite Assembled Microspheres with Controlled Components and Morphologies. <i>Small Structures</i> , 2021 , 2, 2100033	8.7	8

206	Confined Magnetic-Dielectric Balance Boosted Electromagnetic Wave Absorption. <i>Small</i> , 2021 , 17, e2100970	17
205	Fabrication of Hollow Cube Dual-Semiconductor LnO/MnO/C Nanocomposites with Excellent Microwave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28689-28702	9.5 16
204	The ordered mesoporous carbon coated graphene as a high-performance broadband microwave absorbent. <i>Carbon</i> , 2021 , 179, 435-444	10.4 13
203	Enhanced visualizing charge distribution of 2D/2D MXene/MoS ₂ heterostructure for excellent microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2021 , 869, 159365	5.7 20
202	Urchin-like cobalt hydroxide coupled with N-doped carbon dots hybrid for enhanced electrocatalytic water oxidation. <i>Chemical Engineering Journal</i> , 2021 , 420, 127598	14.7 11
201	Orientation growth modulated magnetic-carbon microspheres toward broadband electromagnetic wave absorption. <i>Carbon</i> , 2021 , 172, 516-528	10.4 33
200	Multi-dimensional ZnO@MWCNTs assembly derived from MOF-5 heterojunction as highly efficient microwave absorber. <i>Carbon</i> , 2021 , 172, 15-25	10.4 25
199	Double ligand MOF-derived pomegranate-like Ni@C microspheres as high-performance microwave absorber. <i>Applied Surface Science</i> , 2021 , 538, 148051	6.7 36
198	Yolk-Shell Nano ZnO@Co-Doped NiO with Efficient Polarization Adsorption and Catalysis Performance for Superior Lithium-Sulfur Batteries. <i>Small</i> , 2021 , 17, e2005227	11 12
197	Recent progress of microwave absorption microspheres by magnetic-dielectric synergy. <i>Nanoscale</i> , 2021 , 13, 2136-2156	7.7 35
196	Position selective dielectric polarization enhancement in CNT based heterostructures for highly efficient microwave absorption. <i>Nanoscale</i> , 2021 , 13, 2324-2332	7.7 8
195	Hierarchical Magnetic Network Constructed by CoFe Nanoparticles Suspended Within "Tubes on Rods" Matrix Toward Enhanced Microwave Absorption. <i>Nano-Micro Letters</i> , 2021 , 13, 47	19.5 43
194	Advances in electromagnetic shielding properties of composite foams. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8896-8949	13 34
193	Compressible and flexible PPy@MoS ₂ /C microwave absorption foam with strong dielectric polarization from 2D semiconductor intermediate sandwich structure. <i>Nanoscale</i> , 2021 , 13, 5115-5124	7.7 7
192	Compensation mechanism of carriers within weakly coupled quantum wells. <i>Applied Physics Letters</i> , 2021 , 118, 122107	3.4
191	In-situ regrowth constructed magnetic coupling 1D/2D Fe assembly as broadband and high-efficient microwave absorber. <i>Chemical Engineering Journal</i> , 2021 , 415, 128951	14.7 15
190	3D Seed-Germination-Like MXene with In Situ Growing CNTs/Ni Heterojunction for Enhanced Microwave Absorption via Polarization and Magnetization. <i>Nano-Micro Letters</i> , 2021 , 13, 157	19.5 25
189	Interfacial optimization of PtNi octahedrons@Ti ₃ C ₂ MXene with enhanced alkaline hydrogen evolution activity and stability. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 120100	21.8 21

188	Enhanced dielectric polarization from disorder-engineered Fe ₃ O ₄ @TiO _{2-x} heterostructure for broadband microwave absorption. <i>Chemical Engineering Journal</i> , 2021 , 419, 130020	14.7	20
187	Unusual effects of vacuum annealing on large-area Ag ₃ PO ₄ microcrystalline film photoanode boosting cocatalyst- and scavenger-free water splitting. <i>Journal of Materials</i> , 2021 , 7, 929-939	6.7	2
186	Probing the atomic interaction between zinc clusters and defective carbon in promoting the wide temperature applications of lithium-sulfur battery. <i>Energy Storage Materials</i> , 2021 , 41, 703-714	19.4	5
185	Interfacial charge redistribution in interconnected network of Ni ₂ P@Co ₂ P boosting electrocatalytic hydrogen evolution in both acidic and alkaline conditions. <i>Chemical Engineering Journal</i> , 2021 , 424, 130444	14.7	20
184	Accurately Engineering 2D/0D Heterojunction In Hierarchical TiCT MXene Nanoarchitectures for Electromagnetic Wave Absorption and Shielding. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5866-5876	9.5	17
183	High-Density Anisotropy Magnetism Enhanced Microwave Absorption Performance in TiCT MXene@Ni Microspheres. <i>ACS Nano</i> , 2021 ,	16.7	30
182	Respective Roles of Inner and Outer Carbon in Boosting the K Storage Performance of Dual-Carbon-Confined ZnSe. <i>Advanced Science</i> , 2021 , e2104822	13.6	5
181	Hierarchical TiCT MXene/Carbon Nanotubes Hollow Microsphere with Confined Magnetic Nanospheres for Broadband Microwave Absorption. <i>Small</i> , 2021 , e2104380	11	7
180	Controllable Domain Walls in Two-Dimensional Ferromagnetic Material FeGeTe Based on the Spin-Transfer Torque Effect. <i>ACS Nano</i> , 2021 , 15, 19513-19521	16.7	0
179	Giant Topological Hall Effect and Superstable Spontaneous Skyrmions below 330 K in a Centrosymmetric Complex Noncollinear Ferromagnet NdMnGe. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24125-24132	9.5	4
178	Hollow Nanochains: Hollow Palladium-Gold Nanochains with Periodic Concave Structures as Superior ORR Electrocatalysts and Highly Efficient SERS Substrates (Adv. Energy Mater. 18/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070082	21.8	2
177	3D freestanding flower-like nickel-cobalt layered double hydroxides enriched with oxygen vacancies as efficient electrocatalysts for water oxidation. <i>Sustainable Materials and Technologies</i> , 2020 , 25, e00170	5.3	5
176	Covalent Assembly of MoS Nanosheets with SnS Nanodots as Linkages for Lithium/Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14621-14627	16.4	71
175	Covalent Assembly of MoS ₂ Nanosheets with SnS Nanodots as Linkages for Lithium/Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 14729-14735	3.6	12
174	Anomalous Spin Behavior in FeGeTe Driven by Current Pulses. <i>ACS Nano</i> , 2020 , 14, 9512-9520	16.7	5
173	Template-guided synthesis of porous MoN microrod as an effective sulfur host for high-performance Lithium/Sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155764	5.7	16
172	Drawing advanced electromagnetic functional composites with ultra-low filler loading. <i>Chemical Engineering Journal</i> , 2020 , 399, 125720	14.7	11
171	Multidimension-Controllable Synthesis of MOF-Derived Co@N-Doped Carbon Composite with Magnetic-Dielectric Synergy toward Strong Microwave Absorption. <i>Small</i> , 2020 , 16, e2000158	11	170

170	Engineering Phase Transformation of MoS/RGO by N-doping as an Excellent Microwave Absorber. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16831-16840	9.5	36
169	Guided-formation of a favorable interface for stabilizing Na metal solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7828-7835	13	24
168	Hollow Palladium-Gold Nanochains with Periodic Concave Structures as Superior ORR Electrocatalysts and Highly Efficient SERS Substrates. <i>Advanced Energy Materials</i> , 2020 , 10, 1904072	21.8	41
167	Improved microwave absorption performance of a multi-dimensional Fe ₂ O ₃ /CNTCM@CN assembly achieved by enhanced dielectric relaxation. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5715-5726	7.1	11
166	Magnetized MXene Microspheres with Multiscale Magnetic Coupling and Enhanced Polarized Interfaces for Distinct Microwave Absorption via a Spray-Drying Method. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18138-18147	9.5	56
165	Self-transforming ultrathin Co(OH) ₂ nanosheet arrays from metal-organic framework modified graphene oxide with sandwichlike structure for efficient electrocatalytic oxygen evolution. <i>Nano Research</i> , 2020 , 13, 810-817	10	30
164	Understanding the role of interface in advanced semiconductor nanostructure and its interplay with wave function overlap. <i>Nano Research</i> , 2020 , 13, 1536-1543	10	4
163	Conductive Li _{3.08} Cr _{0.02} Si _{0.09} V _{0.90} O ₄ Anode Material: Novel Zero-Strain Characteristic and Superior Electrochemical Li ⁺ Storage. <i>Advanced Energy Materials</i> , 2020 , 10, 1904267	21.8	26
162	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
161	Hierarchical coupling effect in hollow Ni/NiFe ₂ O ₄ -CNTs microsphere via spray-drying for enhanced oxygen evolution electrocatalysis. <i>Nano Research</i> , 2020 , 13, 437-446	10	27
160	Rational design of 2D hierarchically laminated Fe ₃ O ₄ @nanoporous carbon@rGO nanocomposites with strong magnetic coupling for excellent electromagnetic absorption applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2123-2134	7.1	119
159	3D conductive network wrapped CeO _{2-x} Yolk@Shell hybrid microspheres for selective-frequency microwave absorption. <i>Carbon</i> , 2020 , 162, 86-94	10.4	28
158	In situ dynamics response mechanism of the tunable length-diameter ratio nanochains for excellent microwave absorber. <i>Nano Research</i> , 2020 , 13, 72-78	10	18
157	MOF Induces 2D GO to Assemble into 3D Accordion-Like Composites for Tunable and Optimized Microwave Absorption Performance. <i>Small</i> , 2020 , 16, e2003905	11	46
156	MOF-Derived NiCo@Carbon with Tunable Nano-Microstructure as Lightweight and Highly Efficient Electromagnetic Wave Absorber. <i>Nano-Micro Letters</i> , 2020 , 12, 150	19.5	95
155	Pb/C Composite with Spherical Pb Nanoparticles Encapsulated in Carbon Microspheres as a High-Performance Anode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7416-7426	6.1	4
154	Polarization-enhanced three-dimensional Co ₃ O ₄ /MoO ₂ /C flowers as efficient microwave absorbers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10248-10256	7.1	8
153	Excellent microwave absorbing properties of ZnO/ZnFe ₂ O ₄ /Fe core-shell microrods prepared by a rapid microwave-assisted hydrothermal-chemical vapor decomposition method. <i>Applied Surface Science</i> , 2020 , 531, 147353	6.7	18

152	Skyrmion bubbles stabilization in confined hole and trench materials. <i>Applied Physics Letters</i> , 2020 , 117, 052405	3.4	1
151	Highly Compressible Polymer Composite Foams with Thermal Heating-Boosted Electromagnetic Wave Absorption Abilities. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50793-50802	9.5	23
150	Rutile TiO Nanoparticles Encapsulated in a Zeolitic Imidazolate Framework-Derived Hierarchical Carbon Framework with Engineered Dielectricity as an Excellent Microwave Absorber. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48140-48149	9.5	11
149	Galvanic Replacement Reaction Involving Core-Shell Magnetic Chains and Orientation-Tunable Microwave Absorption Properties. <i>Small</i> , 2020 , 16, e2003502	11	129
148	Domino Effect of Thickness Fluctuation on Subband Structure and Electron Transport within Semiconductor Cascade Structures. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41950-41959	9.5	2
147	Magnetic vortex core-shell Fe ₃ O ₄ @C nanorings with enhanced microwave absorption performance. <i>Carbon</i> , 2020 , 157, 130-139	10.4	186
146	In-situ electrochemical pretreatment of hierarchical NiS-based electrocatalyst towards promoted hydrogen evolution reaction with low overpotential. <i>Journal of Colloid and Interface Science</i> , 2020 , 559, 282-290	9.3	23
145	MOF-derived yolk-shell Ni@C@ZnO Schottky contact structure for enhanced microwave absorption. <i>Chemical Engineering Journal</i> , 2020 , 383, 123099	14.7	207
144	Tuning strain effect and surface composition in PdAu hollow nanospheres as highly efficient ORR electrocatalysts and SERS substrates. <i>Applied Catalysis B: Environmental</i> , 2020 , 262, 118298	21.8	42
143	3D hierarchical local heterojunction of MoS ₂ /FeS ₂ for enhanced microwave absorption. <i>Chemical Engineering Journal</i> , 2020 , 379, 122241	14.7	79
142	Dandelion-like carbon nanotube assembly embedded with closely separated Co nanoparticles for high-performance microwave absorption materials. <i>Nanoscale</i> , 2020 , 12, 10149-10157	7.7	29
141	Conductive Copper Niobate: Superior Li ⁺ -Storage Capability and Novel Li ⁺ -Transport Mechanism. <i>Advanced Energy Materials</i> , 2019 , 9, 1902174	21.8	56
140	Multi-scale magnetic coupling of Fe@SiO@C-Ni yolk@triple-shell microspheres for broadband microwave absorption. <i>Nanoscale</i> , 2019 , 11, 17270-17276	7.7	44
139	Sn-C and Se-C Co-Bonding SnSe/Few-Layered Graphene Micro-Nano Structure: Route to a Densely Compacted and Durable Anode for Lithium/Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36685-36696	9.5	36
138	Dynamic visualization of the phase transformation path in LiFePO during delithiation. <i>Nanoscale</i> , 2019 , 11, 17557-17562	7.7	7
137	Hydrogen peroxide-assisted synthesis of oxygen-doped carbon nitride nanorods for enhanced photocatalytic hydrogen evolution.. <i>RSC Advances</i> , 2019 , 9, 28421-28431	3.7	2
136	Dandelion-like Mn/Ni Co-doped CoO/C Hollow Microspheres with Oxygen Vacancies for Advanced Lithium Storage. <i>ACS Nano</i> , 2019 , 13, 11921-11934	16.7	74
135	Electron Holography of Yolk-Shell Fe ₃ O ₄ @mSiO ₂ Microspheres for Use in Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2019 , 2, 910-916	5.6	29

134	Morphology-controlled synthesis and excellent microwave absorption performance of ZnCoO nanostructures via a self-assembly process of flake units. <i>Nanoscale</i> , 2019 , 11, 2694-2702	7.7	103
133	Nano-spatially confined and interface-controlled lithiation/delithiation in an in situ formed (SnS ₂ /FLG) composite: a route to an ultrafast and cycle-stable anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15320-15332	13	24
132	Understanding the role of aluminium in determining the surface structure and electrochemical performance of layered cathodes. <i>Nanoscale</i> , 2019 , 11, 13007-13016	7.7	3
131	Two-Dimensional Energy Band Engineering in GaAs/AlGaAs Core/Shell Nanowires by Crystal-Phase Switching for Charge Manipulation. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3323-3328	5.6	
130	A Flexible Film toward High-Performance Lithium Storage: Designing Nanosheet-Assembled Hollow Single-Hole Ni-Co-Mn-O Spheres with Oxygen Vacancy Embedded in 3D Carbon Nanotube/Graphene Network. <i>Small</i> , 2019 , 15, e1901343	11	17
129	Heterointerface-Driven Band Alignment Engineering and its Impact on Macro-Performance in Semiconductor Multilayer Nanostructures. <i>Small</i> , 2019 , 15, e1900837	11	14
128	Enhanced Microwave Absorption Performance from Magnetic Coupling of Magnetic Nanoparticles Suspended within Hierarchically Tubular Composite. <i>Advanced Functional Materials</i> , 2019 , 29, 1901448	15.6	321
127	Ni Mn Co O Nanowire/CNT Composite Microspheres with 3D Interconnected Conductive Network Structure via Spray-Drying Method: A High-Capacity and Long-Cycle-Life Anode Material for Lithium-Ion Batteries. <i>Small</i> , 2019 , 15, e1900069	11	7
126	Oriented Polarization Tuning Broadband Absorption from Flexible Hierarchical ZnO Arrays Vertically Supported on Carbon Cloth. <i>Small</i> , 2019 , 15, e1900900	11	133
125	Hollow porous Fe ₂ O ₃ microspheres wrapped by reduced graphene oxides with high-performance microwave absorption. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11167-11176	7.1	37
124	A direct H ₂ O ₂ production based on hollow porous carbon sphere-sulfur nanocrystal composites by confinement effect as oxygen reduction electrocatalysts. <i>Nano Research</i> , 2019 , 12, 2614-2622	10	27
123	Conductive-network enhanced microwave absorption performance from carbon coated defect-rich Fe ₂ O ₃ anchored on multi-wall carbon nanotubes. <i>Carbon</i> , 2019 , 155, 298-308	10.4	66
122	Boosted Interfacial Polarization from Multishell TiO ₂ @Fe ₃ O ₄ @PPy Heterojunction for Enhanced Microwave Absorption. <i>Small</i> , 2019 , 15, e1902885	11	167
121	Interfacial Charge Field in Hierarchical Yolk/Shell Nanocapsule Enables Efficient Immobilization and Catalysis of Polysulfides Conversion. <i>Advanced Energy Materials</i> , 2019 , 9, 1901667	21.8	47
120	Visualizing spatial potential and charge distribution in Ru/N-doped carbon electrocatalysts for superior hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18072-18080	13	30
119	Enhanced polarization from flexible hierarchical MnO arrays on cotton cloth with excellent microwave absorption. <i>Nanoscale</i> , 2019 , 11, 13269-13281	7.7	51
118	Ultrabroad Band Microwave Absorption of Carbonized Waxberry with Hierarchical Structure. <i>Small</i> , 2019 , 15, e1902974	11	92
117	Self-Assembly-Magnetized MXene Avoid Dual-Agglomeration with Enhanced Interfaces for Strong Microwave Absorption through a Tunable Electromagnetic Property. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44536-44544	9.5	97

116	Rooting bismuth oxide nanosheets into porous carbon nanoboxes as a sulfur immobilizer for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7074-7081	13	38
115	Superior-capacity binder-free anode electrode for lithium-ion batteries: CoMnNiO nanosheets with metal/oxygen vacancies directly formed on Cu foil. <i>Nanoscale</i> , 2019 , 11, 5080-5093	7.7	13
114	High-Performance Microwave Absorption of MOF-Derived Core-Shell Co@N-doped Carbon Anchored on Reduced Graphene Oxide. <i>ChemNanoMat</i> , 2019 , 5, 558-565	3.5	40
113	Ferromagnetic Co ₂₀ Ni ₈₀ nanoparticles encapsulated inside reduced graphene oxide layers with superior microwave absorption performance. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2943-2953	7.1	51
112	Control of electron tunnelling by fine band engineering of semiconductor potential barriers. <i>Nanoscale</i> , 2019 , 11, 21376-21385	7.7	3
111	Enhanced microwave absorption performance from abundant polarization sites of ZnO nanocrystals embedded in CNTs via confined space synthesis. <i>Nanoscale</i> , 2019 , 11, 22539-22549	7.7	25
110	Synthesis of uniform ordered mesoporous TiO microspheres with controllable phase junctions for efficient solar water splitting. <i>Chemical Science</i> , 2019 , 10, 1664-1670	9.4	82
109	Copper- and Cobalt-Codoped CeO Nanospheres with Abundant Oxygen Vacancies as Highly Efficient Electrocatalysts for Dual-Mode Electrochemical Sensing of MicroRNA. <i>Analytical Chemistry</i> , 2019 , 91, 2659-2666	7.8	32
108	Yolk-Shell Fe/Fe N@Pd/C Magnetic Nanocomposite as an Efficient Recyclable ORR Electrocatalyst and SERS Substrate. <i>Small</i> , 2019 , 15, e1805032	11	61
107	Polyionic Resin Supported Pd/Fe ₂ O ₃ Nanohybrids for Catalytic Hydrodehalogenation: Improved and Versatile Remediation for Toxic Pollutants. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2159-2169	3.9	8
106	Efficient synergism of electrocatalysis and physical confinement leading to durable high-power lithium-sulfur batteries. <i>Nano Energy</i> , 2019 , 57, 34-40	17.1	73
105	Insights into the micro magnetic loss mechanism of microwave absorption by off-axis electron holography. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 475, 24-29	2.8	10
104	Colloidal CdSe 0-Dimension Nanocrystals and Their Self-Assembled 2-Dimension Structures. <i>Chemistry of Materials</i> , 2018 , 30, 1575-1584	9.6	28
103	Microstructure research for ferroelectric origin in the strained Hf _{0.5} Zr _{0.5} O ₂ thin film via geometric phase analysis. <i>Applied Physics Letters</i> , 2018 , 112, 143503	3.4	5
102	Hierarchical FeO@C@MnO@C Multishell Nanocomposites for High Performance Lithium Ion Batteries and Catalysts. <i>Langmuir</i> , 2018 , 34, 5225-5233	4	18
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