

Radek Zboril

List of Publications by Year in descending order

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633
papers

55,228
citations

1614

105
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1634

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682
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682
docs citations

682
times ranked

61413
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalization of Graphene: Covalent and Non-Covalent Approaches, Derivatives and Applications. <i>Chemical Reviews</i> , 2012, 112, 6156-6214.	47.7	3,531
2	Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis. <i>Chemical Reviews</i> , 2016, 116, 3722-3811.	47.7	2,051
3	Silver Colloid Nanoparticles: Synthesis, Characterization, and Their Antibacterial Activity. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16248-16253.	2.6	2,012
4	Noncovalent Functionalization of Graphene and Graphene Oxide for Energy Materials, Biosensing, Catalytic, and Biomedical Applications. <i>Chemical Reviews</i> , 2016, 116, 5464-5519.	47.7	1,942
5	Broad Family of Carbon Nanoallotropes: Classification, Chemistry, and Applications of Fullerenes, Carbon Dots, Nanotubes, Graphene, Nanodiamonds, and Combined Superstructures. <i>Chemical Reviews</i> , 2015, 115, 4744-4822.	47.7	1,519
6	Targeted Drug Delivery with Polymers and Magnetic Nanoparticles: Covalent and Noncovalent Approaches, Release Control, and Clinical Studies. <i>Chemical Reviews</i> , 2016, 116, 5338-5431.	47.7	1,333
7	Core-shell nanoparticles: synthesis and applications in catalysis and electrocatalysis. <i>Chemical Society Reviews</i> , 2015, 44, 7540-7590.	38.1	906
8	Photoelectrochemical Water Splitting with Mesoporous Hematite Prepared by a Solution-Based Colloidal Approach. <i>Journal of the American Chemical Society</i> , 2010, 132, 7436-7444.	13.7	865
9	Antifungal activity of silver nanoparticles against <i>Candida</i> spp.. <i>Biomaterials</i> , 2009, 30, 6333-6340.	11.4	821
10	Effect of Surfactants and Polymers on Stability and Antibacterial Activity of Silver Nanoparticles (NPs). <i>Journal of Physical Chemistry C</i> , 2008, 112, 5825-5834.	3.1	812
11	Surface Functionalized Carbogenic Quantum Dots. <i>Small</i> , 2008, 4, 455-458.	10.0	796
12	Carbon dots—Emerging light emitters for bioimaging, cancer therapy and optoelectronics. <i>Nano Today</i> , 2014, 9, 590-603.	11.9	788
13	Bacterial resistance to silver nanoparticles and how to overcome it. <i>Nature Nanotechnology</i> , 2018, 13, 65-71.	31.5	671
14	Influence of Feature Size, Film Thickness, and Silicon Doping on the Performance of Nanostructured Hematite Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2009, 113, 772-782.	3.1	594
15	Iron(III) Oxides from Thermal Processes: Synthesis, Structural and Magnetic Properties, Mössbauer Spectroscopy Characterization, and Applications. <i>Chemistry of Materials</i> , 2002, 14, 969-982.	6.7	588
16	Photoluminescent Carbogenic Dots. <i>Chemistry of Materials</i> , 2008, 20, 4539-4541.	6.7	571
17	Graphitic Nitrogen Triggers Red Fluorescence in Carbon Dots. <i>ACS Nano</i> , 2017, 11, 12402-12410.	14.6	550
18	Silver polymeric nanocomposites as advanced antimicrobial agents: Classification, synthetic paths, applications, and perspectives. <i>Advances in Colloid and Interface Science</i> , 2011, 166, 119-135.	14.7	547

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19	Microwave-Assisted Chemistry: Synthetic Applications for Rapid Assembly of Nanomaterials and Organics. <i>Accounts of Chemical Research</i> , 2014, 47, 1338-1348.	15.6	542
20	Photoanodes based on TiO ₂ and Fe ₂ O ₃ for solar water splitting: superior role of 1D nanoarchitectures and of combined heterostructures. <i>Chemical Society Reviews</i> , 2017, 46, 3716-3769.	38.1	535
21	Liquid-Phase Exfoliation of Graphite Towards Solubilized Graphenes. <i>Small</i> , 2009, 5, 1841-1845.	10.0	508
22	Photocatalysis with Reduced TiO ₂ : From Black TiO ₂ to Cocatalyst-Free Hydrogen Production. <i>ACS Catalysis</i> , 2019, 9, 345-364.	11.2	495
23	Polymorphous Transformations of Nanometric Iron(III) Oxide: A Review. <i>Chemistry of Materials</i> , 2011, 23, 3255-3272.	6.7	445
24	Carbon-Based Single-Atom Catalysts for Advanced Applications. <i>ACS Catalysis</i> , 2020, 10, 2231-2259.	11.2	426
25	Graphene Fluoride: A Stable Stoichiometric Graphene Derivative and its Chemical Conversion to Graphene. <i>Small</i> , 2010, 6, 2885-2891.	10.0	386
26	Biomimetic Superhydrophobic/Superoleophilic Highly Fluorinated Graphene Oxide and ZIF-8 Composites for Oil-Water Separation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1178-1182.	13.8	370
27	Full-Color Inorganic Carbon Dot Phosphors for White-Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2017, 5, 1700416.	7.3	360
28	Halogenated Graphenes: Rapidly Growing Family of Graphene Derivatives. <i>ACS Nano</i> , 2013, 7, 6434-6464.	14.6	349
29	Near-Infrared Excitation/Emission and Multiphoton-Induced Fluorescence of Carbon Dots. <i>Advanced Materials</i> , 2018, 30, e1705913.	21.0	349
30	Natural inorganic nanoparticles: formation, fate, and toxicity in the environment. <i>Chemical Society Reviews</i> , 2015, 44, 8410-8423.	38.1	342
31	Fe ₃ O ₄ (iron oxide)-supported nanocatalysts: synthesis, characterization and applications in coupling reactions. <i>Green Chemistry</i> , 2016, 18, 3184-3209.	9.0	342
32	Ferrates: Greener Oxidants with Multimodal Action in Water Treatment Technologies. <i>Accounts of Chemical Research</i> , 2015, 48, 182-191.	15.6	339
33	Organic-coated silver nanoparticles in biological and environmental conditions: Fate, stability and toxicity. <i>Advances in Colloid and Interface Science</i> , 2014, 204, 15-34.	14.7	320
34	Tailored functionalization of iron oxide nanoparticles for MRI, drug delivery, magnetic separation and immobilization of biosubstances. <i>Biotechnology Advances</i> , 2015, 33, 1162-1176.	11.7	301
35	Catalytic Efficiency of Iron(III) Oxides in Decomposition of Hydrogen Peroxide: Competition between the Surface Area and Crystallinity of Nanoparticles. <i>Journal of the American Chemical Society</i> , 2007, 129, 10929-10936.	13.7	294
36	Recent development of covalent organic frameworks (COFs): synthesis and catalytic (organic-electro-photo) applications. <i>Materials Horizons</i> , 2020, 7, 411-454.	12.2	291

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37	In vivo theranostics with near-infrared-emitting carbon dotsâ€”highly efficient photothermal therapy based on passive targeting after intravenous administration. <i>Light: Science and Applications</i> , 2018, 7, 91.	16.6	289
38	The targeted antibacterial and antifungal properties of magnetic nanocomposite of iron oxide and silver nanoparticles. <i>Biomaterials</i> , 2011, 32, 4704-4713.	11.4	286
39	Green and simple route toward boron doped carbon dots with significantly enhanced non-linear optical properties. <i>Carbon</i> , 2015, 83, 173-179.	10.3	282
40	Simple size-controlled synthesis of Au nanoparticles and their size-dependent catalytic activity. <i>Scientific Reports</i> , 2018, 8, 4589.	3.3	281
41	$\hat{\mu}$ -Fe ₂ O ₃ : An Advanced Nanomaterial Exhibiting Giant Coercive Field, Millimeter-Wave Ferromagnetic Resonance, and Magnetoelectric Coupling. <i>Chemistry of Materials</i> , 2010, 22, 6483-6505.	6.7	276
42	Nanoscale zero-valent iron supported on mesoporous silica: Characterization and reactivity for Cr(VI) removal from aqueous solution. <i>Journal of Hazardous Materials</i> , 2013, 261, 295-306.	12.4	273
43	Silica-decorated magnetic nanocomposites for catalytic applications. <i>Coordination Chemistry Reviews</i> , 2015, 288, 118-143.	18.8	268
44	Amorphous Iron(III) Oxide A Review. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4003-4018.	2.6	260
45	Aqueous-phase exfoliation of graphite in the presence of polyvinylpyrrolidone for the production of water-soluble graphenes. <i>Solid State Communications</i> , 2009, 149, 2172-2176.	1.9	255
46	Toxicity of carbon dots â€” Effect of surface functionalization on the cell viability, reactive oxygen species generation and cell cycle. <i>Carbon</i> , 2016, 99, 238-248.	10.3	255
47	Organic functionalisation of graphenes. <i>Chemical Communications</i> , 2010, 46, 1766.	4.1	254
48	Carbon Dot Nanothermometry: Intracellular Photoluminescence Lifetime Thermal Sensing. <i>ACS Nano</i> , 2017, 11, 1432-1442.	14.6	243
49	Photoluminescence effects of graphitic core size and surface functional groups in carbon dots: COO ⁻ induced red-shift emission. <i>Carbon</i> , 2014, 70, 279-286.	10.3	240
50	Electrocatalytic methanol oxidation over Cu, Ni and bimetallic Cu-Ni nanoparticles supported on graphitic carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 272-283.	20.2	235
51	Review on High Valent Fe ^{VI} (Ferrate): A Sustainable Green Oxidant in Organic Chemistry and Transformation of Pharmaceuticals. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 18-34.	6.7	214
52	Chemistry, properties, and applications of fluorographene. <i>Applied Materials Today</i> , 2017, 9, 60-70.	4.3	211
53	Growth mechanism of strongly emitting CH ₃ NH ₃ PbBr ₃ perovskite nanocrystals with a tunable bandgap. <i>Nature Communications</i> , 2017, 8, 996.	12.8	210
54	Graphitic Nitrogen Doping in Carbon Dots Causes Red-Shifted Absorption. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1303-1308.	3.1	207

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55	Doping with Graphitic Nitrogen Triggers Ferromagnetism in Graphene. <i>Journal of the American Chemical Society</i> , 2017, 139, 3171-3180.	13.7	202
56	Gd(III)-doped carbon dots as a dual fluorescent-MRI probe. <i>Journal of Materials Chemistry</i> , 2012, 22, 23327.	6.7	199
57	Nanoporous Nitrogen-Doped Graphene Oxide/Nickel Sulfide Composite Sheets Derived from a Metal-Organic Framework as an Efficient Electrocatalyst for Hydrogen and Oxygen Evolution. <i>Advanced Functional Materials</i> , 2017, 27, 1700451.	14.9	198
58	Silica-nanosphere-based organic-inorganic hybrid nanomaterials: synthesis, functionalization and applications in catalysis. <i>Green Chemistry</i> , 2015, 17, 3207-3230.	9.0	191
59	On the Controlled Loading of Single Platinum Atoms as a Co-Catalyst on TiO ₂ Anatase for Optimized Photocatalytic H ₂ Generation. <i>Advanced Materials</i> , 2020, 32, e1908505.	21.0	189
60	Photoluminescent Carbon Nanostructures. <i>Chemistry of Materials</i> , 2016, 28, 4085-4128.	6.7	186
61	Ferrate(VI)-Induced Arsenite and Arsenate Removal by In Situ Structural Incorporation into Magnetic Iron(III) Oxide Nanoparticles. <i>Environmental Science & Technology</i> , 2013, 47, 3283-3292.	10.0	185
62	Zero-valent iron nanoparticles in treatment of acid mine water from in situ uranium leaching. <i>Chemosphere</i> , 2011, 82, 1178-1184.	8.2	183
63	Carbon Dot Fluorescence-Lifetime-Encoded Anti-Counterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29902-29908.	8.0	183
64	Influence of Doping and Temperature on Solvatochromic Shifts in Optical Spectra of Carbon Dots. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10591-10604.	3.1	179
65	Luminescent Surface Quaternized Carbon Dots. <i>Chemistry of Materials</i> , 2012, 24, 6-8.	6.7	176
66	Nonlinear Optical Properties and Broadband Optical Power Limiting Action of Graphene Oxide Colloids. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6842-6850.	3.1	163
67	Emerging chemical strategies for imprinting magnetism in graphene and related 2D materials for spintronic and biomedical applications. <i>Chemical Society Reviews</i> , 2018, 47, 3899-3990.	38.1	161
68	Plasmon-Enhanced Photoelectrochemical Water Splitting for Efficient Renewable Energy Storage. <i>Advanced Materials</i> , 2019, 31, e1805513.	21.0	159
69	Iron-Oxide-Supported Nanocarbon in Lithium-Ion Batteries, Medical, Catalytic, and Environmental Applications. <i>ACS Nano</i> , 2014, 8, 7571-7612.	14.6	157
70	Interactions of Aqueous Ag ⁺ with Fulvic Acids: Mechanisms of Silver Nanoparticle Formation and Investigation of Stability. <i>Environmental Science & Technology</i> , 2013, 47, 757-764.	10.0	156
71	Shape Controlled Hierarchical Porous Hydrophobic/Oleophilic Metal-Organic Nanofibrous Gel Composites for Oil Adsorption. <i>Advanced Materials</i> , 2017, 29, 1605307.	21.0	155
72	The influence of complexing agent concentration on particle size in the process of SERS active silver colloid synthesis. <i>Journal of Materials Chemistry</i> , 2005, 15, 1099-1105.	6.7	154

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73	Superparamagnetic maghemite nanoparticles from solid-state synthesis – Their functionalization towards peroral MRI contrast agent and magnetic carrier for trypsin immobilization. <i>Biomaterials</i> , 2009, 30, 2855-2863.	11.4	152
74	Acute and Chronic Toxicity Effects of Silver Nanoparticles (NPs) on <i>Drosophila melanogaster</i> . <i>Environmental Science & Technology</i> , 2011, 45, 4974-4979.	10.0	147
75	Synthesis and Characterization of $\text{Fe}_2\text{O}_3/\text{Carbon}$ Hybrids and Their Application in Removal of Hexavalent Chromium Ions from Aqueous Solutions. <i>Langmuir</i> , 2012, 28, 3918-3930.	3.5	145
76	$\text{Ag@Co}_3\text{P}$ Core-Shell Heterogeneous Nanoparticles as Efficient Oxygen Evolution Reaction Catalysts. <i>ACS Catalysis</i> , 2017, 7, 7038-7042.	11.2	144
77	Metal-Organic Framework (MOF) Derived Electrodes with Robust and Fast Lithium Storage for Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2019, 29, 1900532.	14.9	141
78	Nanocrystalline Iron Oxides, Composites, and Related Materials as a Platform for Electrochemical, Magnetic, and Chemical Biosensors. <i>Chemistry of Materials</i> , 2014, 26, 6653-6673.	6.7	140
79	Biogeochemistry of selenium. A review. <i>Environmental Chemistry Letters</i> , 2015, 13, 49-58.	16.2	140
80	Human virus detection with graphene-based materials. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112436.	10.1	140
81	Hydrophobic Metal-Organic Frameworks. <i>Advanced Materials</i> , 2019, 31, e1900820.	21.0	138
82	Microwave-assisted synthesis – Catalytic applications in aqueous media. <i>Coordination Chemistry Reviews</i> , 2015, 291, 68-94.	18.8	136
83	Single-Atom (Iron-Based) Catalysts: Synthesis and Applications. <i>Chemical Reviews</i> , 2021, 121, 13620-13697.	47.7	136
84	Single-Atom Catalysts: A Sustainable Pathway for the Advanced Catalytic Applications. <i>Small</i> , 2021, 17, e2006473.	10.0	135
85	Cyanographene and Graphene Acid: Emerging Derivatives Enabling High-Yield and Selective Functionalization of Graphene. <i>ACS Nano</i> , 2017, 11, 2982-2991.	14.6	133
86	Silver nanoparticles strongly enhance and restore bactericidal activity of inactive antibiotics against multiresistant Enterobacteriaceae. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 392-399.	5.0	131
87	The Rise of Magnetically Recyclable Nanocatalysts. <i>ChemCatChem</i> , 2014, 6, 3312-3313.	3.7	130
88	Mixed-Valence Single-Atom Catalyst Derived from Functionalized Graphene. <i>Advanced Materials</i> , 2019, 31, e1900323.	21.0	129
89	Carbon dot hybrids with oligomeric silsesquioxane: solid-state luminophores with high photoluminescence quantum yield and applicability in white light emitting devices. <i>Chemical Communications</i> , 2015, 51, 2950-2953.	4.1	125
90	Polyacrylate-Assisted Size Control of Silver Nanoparticles and Their Catalytic Activity. <i>Chemistry of Materials</i> , 2014, 26, 1332-1339.	6.7	124

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91	Carbon Nitride-Based Ruthenium Single Atom Photocatalyst for CO ₂ Reduction to Methanol. <i>Small</i> , 2021, 17, e2006478.	10.0	124
92	Iron(II,III)-Polyphenol Complex Nanoparticles Derived from Green Tea with Remarkable Ecotoxicological Impact. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1674-1680.	6.7	122
93	Strong and Nonspecific Synergistic Antibacterial Efficiency of Antibiotics Combined with Silver Nanoparticles at Very Low Concentrations Showing No Cytotoxic Effect. <i>Molecules</i> , 2016, 21, 26.	3.8	121
94	Covalent Graphene-MOF Hybrids for High-Performance Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2021, 33, e2004560.	21.0	121
95	Formation and toxicity of brominated disinfection byproducts during chlorination and chloramination of water: A review. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2014, 49, 212-228.	1.5	119
96	Multimodal Action and Selective Toxicity of Zerovalent Iron Nanoparticles against Cyanobacteria. <i>Environmental Science & Technology</i> , 2012, 46, 2316-2323.	10.0	118
97	Ferrate(VI)-Prompted Removal of Metals in Aqueous Media: Mechanistic Delineation of Enhanced Efficiency via Metal Entrenchment in Magnetic Oxides. <i>Environmental Science & Technology</i> , 2015, 49, 2319-2327.	10.0	118
98	Shape-Assisted 2D MOF/Graphene Derived Hybrids as Exceptional Lithium-Ion Battery Electrodes. <i>Advanced Functional Materials</i> , 2019, 29, 1902539.	14.9	118
99	Determining Plasmonic Hot Electrons and Photothermal Effects during H ₂ Evolution with TiPt Nanohybrids. <i>ACS Catalysis</i> , 2020, 10, 5261-5271.	11.2	118
100	Surfactant-Derived Amphiphilic Carbon Dots with Tunable Photoluminescence. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24991-24996.	3.1	117
101	Anaerobic Reaction of Nanoscale Zerovalent Iron with Water: Mechanism and Kinetics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13817-13825.	3.1	114
102	Room temperature organic magnets derived from sp ³ functionalized graphene. <i>Nature Communications</i> , 2017, 8, 14525.	12.8	112
103	Magnetite Nanoparticles by View of Mössbauer Spectroscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 926-947.	0.9	111
104	Hemocompatibility evaluation of different silver nanoparticle concentrations employing a modified Chandler-loop in vitro assay on human blood. <i>Acta Biomaterialia</i> , 2013, 9, 7460-7468.	8.3	111
105	Initial Study on the Toxicity of Silver Nanoparticles (NPs) against <i>Paramecium caudatum</i> . <i>Journal of Physical Chemistry C</i> , 2009, 113, 4296-4300.	3.1	110
106	Temperature-Dependent Exciton and Trap-Related Photoluminescence of CdTe Quantum Dots Embedded in a NaCl Matrix: Implication in Thermometry. <i>Small</i> , 2016, 12, 466-476.	10.0	107
107	Synthesis, Characterization and Aspects of Superhydrophobic Functionalized Carbon Nanotubes. <i>Chemistry of Materials</i> , 2008, 20, 2884-2886.	6.7	105
108	Air Stable Magnetic Bimetallic Fe-Ag Nanoparticles for Advanced Antimicrobial Treatment and Phosphorus Removal. <i>Environmental Science & Technology</i> , 2013, 47, 5285-5293.	10.0	105

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109	Graphene and carbon quantum dots electrochemistry. <i>Electrochemistry Communications</i> , 2015, 52, 75-79.	4.7	103
110	Photoanodes with Fully Controllable Texture: The Enhanced Water Splitting Efficiency of Thin Hematite Films Exhibiting Solely (110) Crystal Orientation. <i>ACS Nano</i> , 2015, 9, 7113-7123.	14.6	102
111	Band gaps and structural properties of graphene halides and their derivatives: A hybrid functional study with localized orbital basis sets. <i>Journal of Chemical Physics</i> , 2012, 137, 034709.	3.0	101
112	Oxidation of Microcystin-LR by Ferrate(VI): Kinetics, Degradation Pathways, and Toxicity Assessments. <i>Environmental Science & Technology</i> , 2014, 48, 12164-12172.	10.0	98
113	Environmental Applications of Chemically Pure Natural Ferrihydrite. <i>Environmental Science & Technology</i> , 2007, 41, 4367-4374.	10.0	97
114	Poly(vinylpyrrolidone) supported copper nanoclusters: glutathione enhanced blue photoluminescence for application in phosphor converted light emitting devices. <i>Nanoscale</i> , 2016, 8, 7197-7202.	5.6	97
115	$\text{Fe}_2\text{O}_3/\text{TiO}_2$ 3D hierarchical nanostructures for enhanced photoelectrochemical water splitting. <i>Nanoscale</i> , 2017, 9, 134-142.	5.6	97
116	Nature of Absorption Bands in Oxygen-Functionalized Graphitic Carbon Dots. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13369-13373.	3.1	96
117	Tailoring topological order and π -conjugation to engineer quasi-metallic polymers. <i>Nature Nanotechnology</i> , 2020, 15, 437-443.	31.5	95
118	Thermal behaviour of iron(ii) oxalate dihydrate in the atmosphere of its conversion gases. <i>Journal of Materials Chemistry</i> , 2006, 16, 1273.	6.7	94
119	Sulfur Doping Induces Strong Ferromagnetic Ordering in Graphene: Effect of Concentration and Substitution Mechanism. <i>Advanced Materials</i> , 2016, 28, 5045-5053.	21.0	94
120	Structure and photocatalytic performance of magnetically separable titania photocatalysts for the degradation of propachlor. <i>Applied Catalysis B: Environmental</i> , 2009, 87, 181-189.	20.2	93
121	Iron and Iron Oxide Nanoparticles Synthesized with Green Tea Extract: Differences in Ecotoxicological Profile and Ability To Degrade Malachite Green. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8679-8687.	6.7	93
122	Ultrathin 2D Cobalt Zeolite-Imidazole Framework Nanosheets for Electrocatalytic Oxygen Evolution. <i>Advanced Science</i> , 2018, 5, 1801029.	11.2	92
123	Down-conversion monochromatic light-emitting diodes with the color determined by the active layer thickness and concentration of carbon dots. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6613-6615.	5.5	91
124	Reactivity of Fluorographene: A Facile Way toward Graphene Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1430-1434.	4.6	90
125	Iron(III) Oxide Nanoparticles in the Thermally Induced Oxidative Decomposition of Prussian Blue, $\text{Fe}_4[\text{Fe}(\text{CN})_6]_3$. <i>Crystal Growth and Design</i> , 2004, 4, 1317-1325.	3.0	89
126	Synthesis and characterization of robust zero valent iron/mesoporous carbon composites and their applications in arsenic removal. <i>Carbon</i> , 2015, 93, 636-647.	10.3	89

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127	Influence of Ti ³⁺ defect-type on heterogeneous photocatalytic H ₂ evolution activity of TiO ₂ . Journal of Materials Chemistry A, 2020, 8, 1432-1442.	10.3	89
128	Comprehensive study on surfactant role on silver nanoparticles (NPs) prepared via modified Tollens process. Materials Chemistry and Physics, 2008, 111, 77-81.	4.0	88
129	Chitosan-based synthesis of magnetically-driven nanocomposites with biogenic magnetite core, controlled silver size, and high antimicrobial activity. Green Chemistry, 2012, 14, 2550.	9.0	87
130	A high efficiency H ₂ S gas sensor material: paper like Fe ₂ O ₃ /graphene nanosheets and structural alignment dependency of device efficiency. Journal of Materials Chemistry A, 2014, 2, 6714-6717.	10.3	87
131	Maghemite decorated with ultra-small palladium nanoparticles (¹³ Fe ₂ O ₃ @Pd): applications in the Heck-Mizoroki olefination, Suzuki reaction and allylic oxidation of alkenes. Green Chemistry, 2016, 18, 2363-2373.	9.0	87
132	Enhanced antibacterial effect of antibiotics in combination with silver nanoparticles against animal pathogens. Veterinary Journal, 2016, 209, 174-179.	1.7	87
133	Chemical nature of boron and nitrogen dopant atoms in graphene strongly influences its electronic properties. Physical Chemistry Chemical Physics, 2014, 16, 14231-14235.	2.8	86
134	Thiofluorographene@Hydrophilic Graphene Derivative with Semiconducting and Genosensing Properties. Advanced Materials, 2015, 27, 2305-2310.	21.0	84
135	Zero-Valent Iron Nanoparticles Reduce Arsenites and Arsenates to As(0) Firmly Embedded in Core@Shell Superstructure: Challenging Strategy of Arsenic Treatment under Anoxic Conditions. ACS Sustainable Chemistry and Engineering, 2017, 5, 3027-3038.	6.7	84
136	Polyacrylate-assisted synthesis of stable copper nanoparticles and copper(I) oxide nanocubes with high catalytic efficiency. Journal of Materials Chemistry, 2009, 19, 8463.	6.7	83
137	Quaternized carbon dot-modified graphene oxide for selective cell labelling @ controlled nucleus and cytoplasm imaging. Chemical Communications, 2014, 50, 10782.	4.1	82
138	Remarkable efficiency of phosphate removal: Ferrate(VI)-induced in situ sorption on core-shell nanoparticles. Water Research, 2016, 103, 83-91.	11.3	82
139	Zeta-Fe ₂ O ₃ @ A new stable polymorph in iron(III) oxide family. Scientific Reports, 2015, 5, 15091.	3.3	81
140	Emerging MXene@Metal@Organic Framework Hybrids: Design Strategies toward Versatile Applications. ACS Nano, 2021, 15, 18742-18776.	14.6	81
141	Assessment of toxicity of selenium and cadmium selenium quantum dots: A review. Chemosphere, 2017, 188, 403-413.	8.2	80
142	Silver nanomaterials: synthesis and (electro/photo) catalytic applications. Chemical Society Reviews, 2021, 50, 11293-11380.	38.1	79
143	Sonochemical synthesis of amorphous nanoscopic iron(III) oxide from Fe(acac) ₃ . Ultrasonics Sonochemistry, 2008, 15, 257-264.	8.2	78
144	Unveiling BiVO ₄ nanorods as a novel anode material for high performance lithium ion capacitors: beyond intercalation strategies. Journal of Materials Chemistry A, 2018, 6, 6096-6106.	10.3	78

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145	Fast and selective reduction of nitroarenes under visible light with an earth-abundant plasmonic photocatalyst. <i>Nature Nanotechnology</i> , 2022, 17, 485-492.	31.5	78
146	Magnetically Assisted Surface-Enhanced Raman Scattering Selective Determination of Dopamine in an Artificial Cerebrospinal Fluid and a Mouse Striatum Using Fe ₃ O ₄ /Ag Nanocomposite. <i>Analytical Chemistry</i> , 2014, 86, 2939-2946.	6.5	77
147	Iron Oxide-Supported Copper Oxide Nanoparticles (Nanocat-Fe-CuO): Magnetically Recyclable Catalysts for the Synthesis of Pyrazole Derivatives, 4-Methoxyaniline, and Ullmann-type Condensation Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1699-1706.	6.7	75
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