Radek Zboril

List of Publications by Year
in descending order

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Version: 2024-02-01

633	55,228	1606	1627
papers	citations	105 h-index	215 g-index

682	682	682	61413
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Functionalization of Graphene: Covalent and Non-Covalent Approaches, Derivatives and Applications. Chemical Reviews, 2012, 112, 6156-6214.	23.0	3,531
2	Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis. Chemical Reviews, 2016, 116, 3722-3811.	23.0	2,051
3	Silver Colloid Nanoparticles:Â Synthesis, Characterization, and Their Antibacterial Activity. Journal of Physical Chemistry B, 2006, 110, 16248-16253.	1.2	2,012
4	Noncovalent Functionalization of Graphene and Graphene Oxide for Energy Materials, Biosensing, Catalytic, and Biomedical Applications. Chemical Reviews, 2016, 116, 5464-5519.	23.0	1,942
5	Broad Family of Carbon Nanoallotropes: Classification, Chemistry, and Applications of Fullerenes, Carbon Dots, Nanotubes, Graphene, Nanodiamonds, and Combined Superstructures. Chemical Reviews, 2015, 115, 4744-4822.	23.0	1,519
6	Targeted Drug Delivery with Polymers and Magnetic Nanoparticles: Covalent and Noncovalent Approaches, Release Control, and Clinical Studies. Chemical Reviews, 2016, 116, 5338-5431.	23.0	1,333
7	Coreâ€“shell nanoparticles: synthesis and applications in catalysis and electrocatalysis. Chemical Society Reviews, 2015, 44, 7540-7590.	18.7	906
8	Photoelectrochemical Water Splitting with Mesoporous Hematite Prepared by a Solution-Based Colloidal Approach. Journal of the American Chemical Society, 2010, 132, 7436-7444.	6.6	865
9	Antifungal activity of silver nanoparticles against Candida spp.. Biomaterials, 2009, 30, 6333-6340.	5.7	821
10	Effect of Surfactants and Polymers on Stability and Antibacterial Activity of Silver Nanoparticles (NPs). Journal of Physical Chemistry C, 2008, 112, 5825-5834.	1.5	812
11	Surface Functionalized Carbogenic Quantum Dots. Small, 2008, 4, 455-458.	5.2	796
12	Carbon dotsâ€”Emerging light emitters for bioimaging, cancer therapy and optoelectronics. Nano Today, 2014, 9, 590-603.	6.2	788
13	Bacterial resistance to silver nanoparticles and how to overcome it. Nature Nanotechnology, 2018, 13, 65-71.	15.6	671
14	Influence of Feature Size, Film Thickness, and Silicon Doping on the Performance of Nanostructured Hematite Photoanodes for Solar Water Splitting. Journal of Physical Chemistry C, 2009, 113, 772-782.	1.5	594
15	Iron(III) Oxides from Thermal ProcessesSynthesis, Structural and Magnetic Properties, MÃ¶ssbauer Spectroscopy Characterization, and Applicationsâ€. Chemistry of Materials, 2002, 14, 969-982.	3.2	588
16	Photoluminescent Carbogenic Dots. Chemistry of Materials, 2008, 20, 4539-4541.	3.2	571
17	Graphitic Nitrogen Triggers Red Fluorescence in Carbon Dots. ACS Nano, 2017, 11, 12402-12410.	7.3	550
18	Silver polymeric nanocomposites as advanced antimicrobial agents: Classification, synthetic paths, applications, and perspectives. Advances in Colloid and Interface Science, 2011, 166, 119-135.	7.0	547

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19	Microwave-Assisted Chemistry: Synthetic Applications for Rapid Assembly of Nanomaterials and Organics. Accounts of Chemical Research, 2014, 47, 1338-1348.	7.6	542
20	Photoanodes based on TiO₂and Î±-Fe₂O₃for solar water splitting â€“ superior role of 1D nanoarchitectures and of combined heterostructures. Chemical Society Reviews, 2017, 46, 3716-3769.	18.7	535
21	Liquidâ€Phase Exfoliation of Graphite Towards Solubilized Graphenes. Small, 2009, 5, 1841-1845.	5.2	508
22	Photocatalysis with Reduced TiO₂: From Black TiO₂ to Cocatalyst-Free Hydrogen Production. ACS Catalysis, 2019, 9, 345-364.	5.5	495
23	Polymorphous Transformations of Nanometric Iron(III) Oxide: A Review. Chemistry of Materials, 2011, 23, 3255-3272.	3.2	445
24	Carbon-Based Single-Atom Catalysts for Advanced Applications. ACS Catalysis, 2020, 10, 2231-2259.	5.5	426
25	Graphene Fluoride: A Stable Stoichiometric Graphene Derivative and its Chemical Conversion to Graphene. Small, 2010, 6, 2885-2891.	5.2	386
26	Biomimetic Superhydrophobic/Superoleophilic Highly Fluorinated Graphene Oxide and ZIFâ€8 Composites for Oilâ€“Water Separation. Angewandte Chemie - International Edition, 2016, 55, 1178-1182.	7.2	370
27	Fullâ€Color Inorganic Carbon Dot Phosphors for Whiteâ€Lightâ€Emitting Diodes. Advanced Optical Materials, 2017, 5, 1700416.	3.6	360
28	Halogenated Graphenes: Rapidly Growing Family of Graphene Derivatives. ACS Nano, 2013, 7, 6434-6464.	7.3	349
29	Nearâ€Infrared Excitation/Emission and Multiphotonâ€Induced Fluorescence of Carbon Dots. Advanced Materials, 2018, 30, e1705913.	11.1	349
30	Natural inorganic nanoparticles â€“ formation, fate, and toxicity in the environment. Chemical Society Reviews, 2015, 44, 8410-8423.	18.7	342
31	Fe₃O₄(iron oxide)-supported nanocatalysts: synthesis, characterization and applications in coupling reactions. Green Chemistry, 2016, 18, 3184-3209.	4.6	342
32	Ferrates: Greener Oxidants with Multimodal Action in Water Treatment Technologies. Accounts of Chemical Research, 2015, 48, 182-191.	7.6	339
33	Organic-coated silver nanoparticles in biological and environmental conditions: Fate, stability and toxicity. Advances in Colloid and Interface Science, 2014, 204, 15-34.	7.0	320
34	Tailored functionalization of iron oxide nanoparticles for MRI, drug delivery, magnetic separation and immobilization of biosubstances. Biotechnology Advances, 2015, 33, 1162-1176.	6.0	301
35	Catalytic Efficiency of Iron(III) Oxides in Decomposition of Hydrogen Peroxide:â€‰ Competition between the Surface Area and Crystallinity of Nanoparticles. Journal of the American Chemical Society, 2007, 129, 10929-10936.	6.6	294
36	Recent development of covalent organic frameworks (COFs): synthesis and catalytic (organic-electro-photo) applications. Materials Horizons, 2020, 7, 411-454.	6.4	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. Light: Science and Applications, 2018, 7, 91.	7.7	289
38	The targeted antibacterial and antifungal properties of magnetic nanocomposite of iron oxide and silver nanoparticles. Biomaterials, 2011, 32, 4704-4713.	5.7	286
39	Green and simple route toward boron doped carbon dots with significantly enhanced non-linear optical properties. Carbon, 2015, 83, 173-179.	5.4	282
40	Simple size-controlled synthesis of Au nanoparticles and their size-dependent catalytic activity. Scientific Reports, 2018, 8, 4589.	1.6	281
41	Îµ-Fe₂O₃: An Advanced Nanomaterial Exhibiting Giant Coercive Field, Millimeter-Wave Ferromagnetic Resonance, and Magnetoelectric Coupling. Chemistry of Materials, 2010, 22, 6483-6505.	3.2	276
42	Nanoscale zero-valent iron supported on mesoporous silica: Characterization and reactivity for Cr(VI) removal from aqueous solution. Journal of Hazardous Materials, 2013, 261, 295-306.	6.5	273
43	Silica-decorated magnetic nanocomposites for catalytic applications. Coordination Chemistry Reviews, 2015, 288, 118-143.	9.5	268
44	Amorphous Iron(III) OxideA Review. Journal of Physical Chemistry B, 2007, 111, 4003-4018.	1.2	260
45	Aqueous-phase exfoliation of graphite in the presence of polyvinylpyrrolidone for the production of water-soluble graphenes. Solid State Communications, 2009, 149, 2172-2176.	0.9	255
46	Toxicity of carbon dots â€“ Effect of surface functionalization on the cell viability, reactive oxygen species generation and cell cycle. Carbon, 2016, 99, 238-248.	5.4	255
47	Organic functionalisation of graphenes. Chemical Communications, 2010, 46, 1766.	2.2	254
48	Carbon Dot Nanothermometry: Intracellular Photoluminescence Lifetime Thermal Sensing. ACS Nano, 2017, 11, 1432-1442.	7.3	243
49	Photoluminescence effects of graphitic core size and surface functional groups in carbon dots: COOâ¯ induced red-shift emission. Carbon, 2014, 70, 279-286.	5.4	240
50	Electrocatalytic methanol oxidation over Cu, Ni and bimetallic Cu-Ni nanoparticles supported on graphitic carbon nitride. Applied Catalysis B: Environmental, 2019, 244, 272-283.	10.8	235
51	Review on High Valent Fe^{VI} (Ferrate): A Sustainable Green Oxidant in Organic Chemistry and Transformation of Pharmaceuticals. ACS Sustainable Chemistry and Engineering, 2016, 4, 18-34.	3.2	214
52	Chemistry, properties, and applications of fluorographene. Applied Materials Today, 2017, 9, 60-70.	2.3	211
53	Growth mechanism of strongly emitting CH3NH3PbBr3 perovskite nanocrystals with a tunable bandgap. Nature Communications, 2017, 8, 996.	5.8	210
54	Graphitic Nitrogen Doping in Carbon Dots Causes Red-Shifted Absorption. Journal of Physical Chemistry C, 2016, 120, 1303-1308.	1.5	207

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55	Doping with Graphitic Nitrogen Triggers Ferromagnetism in Graphene. Journal of the American Chemical Society, 2017, 139, 3171-3180.	6.6	202
56	Gd(iii)-doped carbon dots as a dual fluorescent-MRI probe. Journal of Materials Chemistry, 2012, 22, 23327.	6.7	199
57	Nanoporous Nitrogenâ€Doped Graphene Oxide/Nickel Sulfide Composite Sheets Derived from a Metalâ€Organic Framework as an Efficient Electrocatalyst for Hydrogen and Oxygen Evolution. Advanced Functional Materials, 2017, 27, 1700451.	7.8	198
58	Silica-nanosphere-based organicâ€“inorganic hybrid nanomaterials: synthesis, functionalization and applications in catalysis. Green Chemistry, 2015, 17, 3207-3230.	4.6	191
59	On the Controlled Loading of Single Platinum Atoms as a Coâ€Catalyst on TiO₂ Anatase for Optimized Photocatalytic H₂ Generation. Advanced Materials, 2020, 32, e1908505.	11.1	189
60	Photoluminescent Carbon Nanostructures. Chemistry of Materials, 2016, 28, 4085-4128.	3.2	186
61	Ferrate(VI)-Induced Arsenite and Arsenate Removal by In Situ Structural Incorporation into Magnetic Iron(III) Oxide Nanoparticles. Environmental Science & Technology, 2013, 47, 3283-3292.	4.6	185
62	Zero-valent iron nanoparticles in treatment of acid mine water from in situ uranium leaching. Chemosphere, 2011, 82, 1178-1184.	4.2	183
63	Carbon Dot Fluorescence-Lifetime-Encoded Anti-Counterfeiting. ACS Applied Materials & Interfaces, 2018, 10, 29902-29908.	4.0	183
64	Influence of Doping and Temperature on Solvatochromic Shifts in Optical Spectra of Carbon Dots. Journal of Physical Chemistry C, 2016, 120, 10591-10604.	1.5	179
65	Luminescent Surface Quaternized Carbon Dots. Chemistry of Materials, 2012, 24, 6-8.	3.2	176
66	Nonlinear Optical Properties and Broadband Optical Power Limiting Action of Graphene Oxide Colloids. Journal of Physical Chemistry C, 2013, 117, 6842-6850.	1.5	163
67	Emerging chemical strategies for imprinting magnetism in graphene and related 2D materials for spintronic and biomedical applications. Chemical Society Reviews, 2018, 47, 3899-3990.	18.7	161
68	Plasmonâ€Enhanced Photoelectrochemical Water Splitting for Efficient Renewable Energy Storage. Advanced Materials, 2019, 31, e1805513.	11.1	159
69	Iron-Oxide-Supported Nanocarbon in Lithium-Ion Batteries, Medical, Catalytic, and Environmental Applications. ACS Nano, 2014, 8, 7571-7612.	7.3	157
70	Interactions of Aqueous Ag⁺ with Fulvic Acids: Mechanisms of Silver Nanoparticle Formation and Investigation of Stability. Environmental Science & Technology, 2013, 47, 757-764.	4.6	156
71	Shape Controlled Hierarchical Porous Hydrophobic/Oleophilic Metalâ€Organic Nanofibrous Gel Composites for Oil Adsorption. Advanced Materials, 2017, 29, 1605307.	11.1	155
72	The influence of complexing agent concentration on particle size in the process of SERS active silver colloid synthesis. Journal of Materials Chemistry, 2005, 15, 1099-1105.	6.7	154

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73	Superparamagnetic maghemite nanoparticles from solid-state synthesis â€“ Their functionalization towards peroral MRI contrast agent and magnetic carrier for trypsin immobilization. Biomaterials, 2009, 30, 2855-2863.	5.7	152
74	Acute and Chronic Toxicity Effects of Silver Nanoparticles (NPs) on Drosophila melanogaster. Environmental Science & Technology, 2011, 45, 4974-4979.	4.6	147
75	Synthesis and Characterization of Î³-Fe₂O₃/Carbon Hybrids and Their Application in Removal of Hexavalent Chromium Ions from Aqueous Solutions. Langmuir, 2012, 28, 3918-3930.	1.6	145
76	Ag@Co_xP Coreâ€“Shell Heterogeneous Nanoparticles as Efficient Oxygen Evolution Reaction Catalysts. ACS Catalysis, 2017, 7, 7038-7042.	5.5	144
77	Metalâ€“Organic Framework (MOF) Derived Electrodes with Robust and Fast Lithium Storage for Liâ€Ion Hybrid Capacitors. Advanced Functional Materials, 2019, 29, 1900532.	7.8	141
78	Nanocrystalline Iron Oxides, Composites, and Related Materials as a Platform for Electrochemical, Magnetic, and Chemical Biosensors. Chemistry of Materials, 2014, 26, 6653-6673.	3.2	140
79	Biogeochemistry of selenium. A review. Environmental Chemistry Letters, 2015, 13, 49-58.	8.3	140
80	Human virus detection with graphene-based materials. Biosensors and Bioelectronics, 2020, 166, 112436.	5.3	140
81	Hydrophobic Metalâ€“Organic Frameworks. Advanced Materials, 2019, 31, e1900820.	11.1	138
82	Microwave-assisted synthesis â€“ Catalytic applications in aqueous media. Coordination Chemistry Reviews, 2015, 291, 68-94.	9.5	136
83	Single-Atom (Iron-Based) Catalysts: Synthesis and Applications. Chemical Reviews, 2021, 121, 13620-13697.	23.0	136
84	Singleâ€Atom Catalysts: A Sustainable Pathway for the Advanced Catalytic Applications. Small, 2021, 17, e2006473.	5.2	135
85	Cyanographene and Graphene Acid: Emerging Derivatives Enabling High-Yield and Selective Functionalization of Graphene. ACS Nano, 2017, 11, 2982-2991.	7.3	133
86	Silver nanoparticles strongly enhance and restore bactericidal activity of inactive antibiotics against multiresistant Enterobacteriaceae. Colloids and Surfaces B: Biointerfaces, 2016, 142, 392-399.	2.5	131
87	The Rise of Magnetically Recyclable Nanocatalysts. ChemCatChem, 2014, 6, 3312-3313.	1.8	130
88	Mixedâ€Valence Singleâ€Atom Catalyst Derived from Functionalized Graphene. Advanced Materials, 2019, 31, e1900323.	11.1	129
89	Carbon dot hybrids with oligomeric silsesquioxane: solid-state luminophores with high photoluminescence quantum yield and applicability in white light emitting devices. Chemical Communications, 2015, 51, 2950-2953.	2.2	125
90	Polyacrylate-Assisted Size Control of Silver Nanoparticles and Their Catalytic Activity. Chemistry of Materials, 2014, 26, 1332-1339.	3.2	124

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91	Carbon Nitrideâ€Based Ruthenium Single Atom Photocatalyst for CO₂ Reduction to Methanol. Small, 2021, 17, e2006478.	5.2	124
92	Iron(II,III)â€“Polyphenol Complex Nanoparticles Derived from Green Tea with Remarkable Ecotoxicological Impact. ACS Sustainable Chemistry and Engineering, 2014, 2, 1674-1680.	3.2	122
93	Strong and Nonspecific Synergistic Antibacterial Efficiency of Antibiotics Combined with Silver Nanoparticles at Very Low Concentrations Showing No Cytotoxic Effect. Molecules, 2016, 21, 26.	1.7	121
94	Covalent Grapheneâ€MOF Hybrids for Highâ€Performance Asymmetric Supercapacitors. Advanced Materials, 2021, 33, e2004560.	11.1	121
95	Formation and toxicity of brominated disinfection byproducts during chlorination and chloramination of water: A review. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2014, 49, 212-228.	0.7	119
96	Multimodal Action and Selective Toxicity of Zerovalent Iron Nanoparticles against Cyanobacteria. Environmental Science & Technology, 2012, 46, 2316-2323.	4.6	118
97	Ferrate(VI)-Prompted Removal of Metals in Aqueous Media: Mechanistic Delineation of Enhanced Efficiency via Metal Entrenchment in Magnetic Oxides. Environmental Science & Technology, 2015, 49, 2319-2327.	4.6	118
98	Shapeâ€Assisted 2D MOF/Graphene Derived Hybrids as Exceptional Lithiumâ€Ion Battery Electrodes. Advanced Functional Materials, 2019, 29, 1902539.	7.8	118
99	Determining Plasmonic Hot Electrons and Photothermal Effects during H₂ Evolution with TiNâ€“Pt Nanohybrids. ACS Catalysis, 2020, 10, 5261-5271.	5.5	118
100	Surfactant-Derived Amphiphilic Carbon Dots with Tunable Photoluminescence. Journal of Physical Chemistry C, 2013, 117, 24991-24996.	1.5	117
101	Anaerobic Reaction of Nanoscale Zerovalent Iron with Water: Mechanism and Kinetics. Journal of Physical Chemistry C, 2014, 118, 13817-13825.	1.5	114
102	Room temperature organic magnets derived from sp3 functionalized graphene. Nature Communications, 2017, 8, 14525.	5.8	112
103	Maghemite Nanoparticles by View of MÃ¶ssbauer Spectroscopy. Journal of Nanoscience and Nanotechnology, 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. Acta Biomaterialia, 2013, 9, 7460-7468.	4.1	111
105	Initial Study on the Toxicity of Silver Nanoparticles (NPs) against Paramecium caudatum. Journal of Physical Chemistry C, 2009, 113, 4296-4300.	1.5	110
106	Temperature-Dependent Exciton and Trap-Related Photoluminescence of CdTe Quantum Dots Embedded in a NaCl Matrix: Implication in Thermometry. Small, 2016, 12, 466-476.	5.2	107
107	Synthesis, Characterization and Aspects of Superhydrophobic Functionalized Carbon Nanotubes. Chemistry of Materials, 2008, 20, 2884-2886.	3.2	105
108	Air Stable Magnetic Bimetallic Feâ€“Ag Nanoparticles for Advanced Antimicrobial Treatment and Phosphorus Removal. Environmental Science & Technology, 2013, 47, 5285-5293.	4.6	105

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109	Graphene and carbon quantum dots electrochemistry. Electrochemistry Communications, 2015, 52, 75-79.	2.3	103
110	Photoanodes with Fully Controllable Texture: The Enhanced Water Splitting Efficiency of Thin Hematite Films Exhibiting Solely (110) Crystal Orientation. ACS Nano, 2015, 9, 7113-7123.	7.3	102
111	Band gaps and structural properties of graphene halides and their derivates: A hybrid functional study with localized orbital basis sets. Journal of Chemical Physics, 2012, 137, 034709.	1.2	101
112	Oxidation of Microcystin-LR by Ferrate(VI): Kinetics, Degradation Pathways, and Toxicity Assessments. Environmental Science & Technology, 2014, 48, 12164-12172.	4.6	98
113	Environmental Applications of Chemically Pure Natural Ferrihydrite. Environmental Science & Technology, 2007, 41, 4367-4374.	4.6	97
114	Poly(vinylpyrrolidone) supported copper nanoclusters: glutathione enhanced blue photoluminescence for application in phosphor converted light emitting devices. Nanoscale, 2016, 8, 7197-7202.	2.8	97
115	Î±-Fe₂O₃/TiO₂3D hierarchical nanostructures for enhanced photoelectrochemical water splitting. Nanoscale, 2017, 9, 134-142.	2.8	97
116	Nature of Absorption Bands in Oxygen-Functionalized Graphitic Carbon Dots. Journal of Physical Chemistry C, 2015, 119, 13369-13373.	1.5	96
117	Tailoring topological order and Ï€-conjugation to engineer quasi-metallic polymers. Nature Nanotechnology, 2020, 15, 437-443.	15.6	95
118	Thermal behaviour of iron(ii) oxalate dihydrate in the atmosphere of its conversion gases. Journal of Materials Chemistry, 2006, 16, 1273.	6.7	94
119	Sulfur Doping Induces Strong Ferromagnetic Ordering in Graphene: Effect of Concentration and Substitution Mechanism. Advanced Materials, 2016, 28, 5045-5053.	11.1	94
120	Structure and photocatalytic performance of magnetically separable titania photocatalysts for the degradation of propachlor. Applied Catalysis B: Environmental, 2009, 87, 181-189.	10.8	93
121	Iron and Iron Oxide Nanoparticles Synthesized with Green Tea Extract: Differences in Ecotoxicological Profile and Ability To Degrade Malachite Green. ACS Sustainable Chemistry and Engineering, 2018, 6, 8679-8687.	3.2	93
122	Ultrathin 2D Cobalt Zeoliteâ€imidazole Framework Nanosheets for Electrocatalytic Oxygen Evolution. Advanced Science, 2018, 5, 1801029.	5.6	92
123	Down-conversion monochromatic light-emitting diodes with the color determined by the active layer thickness and concentration of carbon dots. Journal of Materials Chemistry C, 2015, 3, 6613-6615.	2.7	91
124	Reactivity of Fluorographene: A Facile Way toward Graphene Derivatives. Journal of Physical Chemistry Letters, 2015, 6, 1430-1434.	2.1	90
125	Iron(III) Oxide Nanoparticles in the Thermally Induced Oxidative Decomposition of Prussian Blue, Fe4[Fe(CN)6]3. Crystal Growth and Design, 2004, 4, 1317-1325.	1.4	89
126	Synthesis and characterization of robust zero valent iron/mesoporous carbon composites and their applications in arsenic removal. Carbon, 2015, 93, 636-647.	5.4	89

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127	Influence of Ti³⁺ defect-type on heterogeneous photocatalytic H₂ evolution activity of TiO₂. Journal of Materials Chemistry A, 2020, 8, 1432-1442.	5.2	89
128	Comprehensive study on surfactant role on silver nanoparticles (NPs) prepared via modified Tollens process. Materials Chemistry and Physics, 2008, 111, 77-81.	2.0	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.	4.6	87
130	A high efficiency H₂S gas sensor material: paper like Fe₂O₃/graphene nanosheets and structural alignment dependency of device efficiency. Journal of Materials Chemistry A, 2014, 2, 6714-6717.	5.2	87
131	Maghemite decorated with ultra-small palladium nanoparticles (Î³-Fe₂O₃â€“Pd): applications in the Heckâ€“Mizoroki olefination, Suzuki reaction and allylic oxidation of alkenes. Green Chemistry, 2016, 18, 2363-2373.	4.6	87
132	Enhanced antibacterial effect of antibiotics in combination with silver nanoparticles against animal pathogens. Veterinary Journal, 2016, 209, 174-179.	0.6	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.	1.3	86
134	Thiofluorographeneâ€“Hydrophilic Graphene Derivative with Semiconducting and Genosensing Properties. Advanced Materials, 2015, 27, 2305-2310.	11.1	84
135	Zero-Valent Iron Nanoparticles Reduce Arsenites and Arsenates to As(0) Firmly Embedded in Coreâ€“Shell Superstructure: Challenging Strategy of Arsenic Treatment under Anoxic Conditions. ACS Sustainable Chemistry and Engineering, 2017, 5, 3027-3038.	3.2	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 â€“ controlled nucleus and cytoplasm imaging. Chemical Communications, 2014, 50, 10782.	2.2	82
138	Remarkable efficiency of phosphate removal: Ferrate(VI)-induced in situ sorption on core-shell nanoparticles. Water Research, 2016, 103, 83-91.	5.3	82
139	Zeta-Fe2O3 â€“ A new stable polymorph in iron(III) oxide family. Scientific Reports, 2015, 5, 15091.	1.6	81
140	Emerging MXene@Metalâ€“Organic Framework Hybrids: Design Strategies toward Versatile Applications. ACS Nano, 2021, 15, 18742-18776.	7.3	81
141	Assessment of toxicity of selenium and cadmium selenium quantum dots: A review. Chemosphere, 2017, 188, 403-413.	4.2	80
142	Silver nanomaterials: synthesis and (electro/photo) catalytic applications. Chemical Society Reviews, 2021, 50, 11293-11380.	18.7	79
143	Sonochemical synthesis of amorphous nanoscopic iron(III) oxide from Fe(acac)3. Ultrasonics Sonochemistry, 2008, 15, 257-264.	3.8	78
144	Unveiling BiVO₄ nanorods as a novel anode material for high performance lithium ion capacitors: beyond intercalation strategies. Journal of Materials Chemistry A, 2018, 6, 6096-6106.	5.2	78

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145	Fast and selective reduction of nitroarenes under visible light with an earth-abundant plasmonic photocatalyst. Nature Nanotechnology, 2022, 17, 485-492.	15.6	78
146	Magnetically Assisted Surface-Enhanced Raman Scattering Selective Determination of Dopamine in an Artificial Cerebrospinal Fluid and a Mouse Striatum Using Fe₃O₄/Ag Nanocomposite. Analytical Chemistry, 2014, 86, 2939-2946.	3.2	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. ACS Sustainable Chemistry and Engineering, 2014, 2, 1699-1706.	3.2	75
148	Magnetic gold nanocatalyst (nanocat-Feâ€“Au): catalytic applications for the oxidative esterification and hydrogen transfer reactions. Green Chemistry, 2014, 16, 4137-4143.	4.6	75
149	A carbon dot-based tandem luminescent solar concentrator. Nanoscale, 2020, 12, 6664-6672.	2.8	75
150	Quantification of the Interaction Forces between Metals and Graphene by Quantum Chemical Calculations and Dynamic Force Measurements under Ambient Conditions. ACS Nano, 2013, 7, 1646-1651.	7.3	73
151	Synthesis, characterization and non-linear optical response of organophilic carbon dots. Carbon, 2013, 61, 640-643.	5.4	72
152	Engineering aspects of ferrate in water and wastewater treatment â€“ a review. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 1603-1614.	0.9	72
153	In vitro cytotoxicity analysis of doxorubicin-loaded/superparamagnetic iron oxide colloidal nanoassemblies on MCF7 and NIH3T3 cell lines. International Journal of Nanomedicine, 2015, 10, 949.	3.3	72
154	Advanced Sensing of Antibiotics with Magnetic Gold Nanocomposite: Electrochemical Detection of Chloramphenicol. Chemistry - A European Journal, 2016, 22, 14279-14284.	1.7	72
155	Ferrate(VI) Oxidation of Weak-Acid Dissociable Cyanides. Environmental Science & Technology, 2008, 42, 3005-3010.	4.6	71
156	An effect of iron(III) oxides crystallinity on their catalytic efficiency and applicability in phenol degradationâ€”A competition between homogeneous and heterogeneous catalysis. Applied Catalysis A: General, 2009, 366, 325-332.	2.2	71
157	Mechanisms and Efficiency of the Simultaneous Removal of Metals and Cyanides by Using Ferrate(VI): Crucial Roles of Nanocrystalline Iron(III) Oxyhydroxides and Metal Carbonates. Chemistry - A European Journal, 2011, 17, 10097-10105.	1.7	71
158	Fe⁰ Nanomotors in Ton Quantities (10²⁰ Units) for Environmental Remediation. Chemistry - A European Journal, 2016, 22, 4789-4793.	1.7	71
159	Title is missing!. Hyperfine Interactions, 2002, 139/140, 597-606.	0.2	70
160	Magnetically recyclable magnetiteâ€“palladium (Nanocat-Feâ€“Pd) nanocatalyst for the Buchwaldâ€“Hartwig reaction. Green Chemistry, 2014, 16, 3494-3500.	4.6	70
161	Carbon Electrodes Modified by Nanoscopic Iron(III) Oxides to Assemble Chemical Sensors for the Hydrogen Peroxide Amperometric Detection. Electroanalysis, 2007, 19, 1850-1854.	1.5	69
162	Charge binding of rhodamine derivative to OHâ˜ stabilized nanomaghemite: Universal nanocarrier for construction of magnetofluorescent biosensors. Acta Biomaterialia, 2012, 8, 2068-2076.	4.1	69

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