# Radek Zboril

#### List of Publications by Citations

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618 papers

**42,9**08 citations

92 h-index 191 g-index

682 ext. papers

49,033 ext. citations

**9.1** avg, IF

**7.83** L-index

#	Paper	IF	Citations
618	Functionalization of graphene: covalent and non-covalent approaches, derivatives and applications. <i>Chemical Reviews</i> , <b>2012</b> , 112, 6156-214	68.1	3041
617	Silver colloid nanoparticles: synthesis, characterization, and their antibacterial activity. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 16248-53	3.4	1781
616	Noncovalent Functionalization of Graphene and Graphene Oxide for Energy Materials, Biosensing, Catalytic, and Biomedical Applications. <i>Chemical Reviews</i> , <b>2016</b> , 116, 5464-519	68.1	1546
615	Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis. <i>Chemical Reviews</i> , <b>2016</b> , 116, 3722-811	68.1	1452
614	Broad family of carbon nanoallotropes: classification, chemistry, and applications of fullerenes, carbon dots, nanotubes, graphene, nanodiamonds, and combined superstructures. <i>Chemical Reviews</i> , <b>2015</b> , 115, 4744-822	68.1	1137
613	Targeted Drug Delivery with Polymers and Magnetic Nanoparticles: Covalent and Noncovalent Approaches, Release Control, and Clinical Studies. <i>Chemical Reviews</i> , <b>2016</b> , 116, 5338-431	68.1	1059
612	Photoelectrochemical water splitting with mesoporous hematite prepared by a solution-based colloidal approach. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 7436-44	16.4	790
611	Surface functionalized carbogenic quantum dots. Small, 2008, 4, 455-8	11	722
610	Effect of Surfactants and Polymers on Stability and Antibacterial Activity of Silver Nanoparticles (NPs). <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 5825-5834	3.8	707
609	Core-shell nanoparticles: synthesis and applications in catalysis and electrocatalysis. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 7540-90	58.5	696
608	Antifungal activity of silver nanoparticles against Candida spp. <i>Biomaterials</i> , <b>2009</b> , 30, 6333-40	15.6	686
607	Carbon dots <b>E</b> merging light emitters for bioimaging, cancer therapy and optoelectronics. <i>Nano Today</i> , <b>2014</b> , 9, 590-603	17.9	655
606	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> , <b>2009</b> , 113, 772-782	3.8	548
605	Photoluminescent Carbogenic Dots. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4539-4541	9.6	525
604	Iron(III) Oxides from Thermal ProcessesSynthesis, Structural and Magnetic Properties, M\(\mathbb{B}\)sbauer Spectroscopy Characterization, and Applications\(\mathbb{I}\) Chemistry of Materials, <b>2002</b> , 14, 969-982	9.6	515
603	Silver polymeric nanocomposites as advanced antimicrobial agents: classification, synthetic paths, applications, and perspectives. <i>Advances in Colloid and Interface Science</i> , <b>2011</b> , 166, 119-35	14.3	483
602	Liquid-phase exfoliation of graphite towards solubilized graphenes. Small, 2009, 5, 1841-5	11	460

## (2015-2018)

601	Bacterial resistance to silver nanoparticles and how to overcome it. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 65-71	28.7	445
600	Microwave-assisted chemistry: synthetic applications for rapid assembly of nanomaterials and organics. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 1338-48	24.3	422
599	Photoanodes based on TiO and FeO for solar water splitting - superior role of 1D nanoarchitectures and of combined heterostructures. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 3716-3769	58.5	385
598	Graphitic Nitrogen Triggers Red Fluorescence in Carbon Dots. <i>ACS Nano</i> , <b>2017</b> , 11, 12402-12410	16.7	351
597	Polymorphous Transformations of Nanometric Iron(III) Oxide: A Review. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 3255-3272	9.6	345
596	Graphene fluoride: a stable stoichiometric graphene derivative and its chemical conversion to graphene. <i>Small</i> , <b>2010</b> , 6, 2885-91	11	337
595	Biomimetic Superhydrophobic/Superoleophilic Highly Fluorinated Graphene Oxide and ZIF-8 Composites for Oil-Water Separation. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 1178-82	16.4	295
594	Photocatalysis with Reduced TiO: From Black TiO to Cocatalyst-Free Hydrogen Production. <i>ACS Catalysis</i> , <b>2019</b> , 9, 345-364	13.1	295
593	Halogenated graphenes: rapidly growing family of graphene derivatives. ACS Nano, 2013, 7, 6434-64	16.7	291
592	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> , <b>2007</b> , 129, 10929-36	16.4	272
591	Fe3O4 (iron oxide)-supported nanocatalysts: synthesis, characterization and applications in coupling reactions. <i>Green Chemistry</i> , <b>2016</b> , 18, 3184-3209	10	269
590	Organic-coated silver nanoparticles in biological and environmental conditions: fate, stability and toxicity. <i>Advances in Colloid and Interface Science</i> , <b>2014</b> , 204, 15-34	14.3	267
589	Natural inorganic nanoparticlesformation, fate, and toxicity in the environment. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 8410-23	58.5	260
588	Near-Infrared Excitation/Emission and Multiphoton-Induced Fluorescence of Carbon Dots. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705913	24	255
587	Full-Color Inorganic Carbon Dot Phosphors for White-Light-Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700416	8.1	255
586	The targeted antibacterial and antifungal properties of magnetic nanocomposite of iron oxide and silver nanoparticles. <i>Biomaterials</i> , <b>2011</b> , 32, 4704-13	15.6	250
585	Ferrates: greener oxidants with multimodal action in water treatment technologies. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 182-91	24.3	246
584	Tailored functionalization of iron oxide nanoparticles for MRI, drug delivery, magnetic separation and immobilization of biosubstances. <i>Biotechnology Advances</i> , <b>2015</b> , 33, 1162-76	17.8	240

583	Organic functionalisation of graphenes. Chemical Communications, 2010, 46, 1766-8	5.8	235
582	Nanoscale zero-valent iron supported on mesoporous silica: characterization and reactivity for Cr(VI) removal from aqueous solution. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 261, 295-306	12.8	230
581	Aqueous-phase exfoliation of graphite in the presence of polyvinylpyrrolidone for the production of water-soluble graphenes. <i>Solid State Communications</i> , <b>2009</b> , 149, 2172-2176	1.6	229
580	Fe2O3: An Advanced Nanomaterial Exhibiting Giant Coercive Field, Millimeter-Wave Ferromagnetic Resonance, and Magnetoelectric Coupling. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 6483-6505	9.6	226
579	Amorphous iron(III) oxidea review. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4003-18	3.4	225
578	Silica-decorated magnetic nanocomposites for catalytic applications. <i>Coordination Chemistry Reviews</i> , <b>2015</b> , 288, 118-143	23.2	221
577	Green and simple route toward boron doped carbon dots with significantly enhanced non-linear optical properties. <i>Carbon</i> , <b>2015</b> , 83, 173-179	10.4	205
576	Carbon-Based Single-Atom Catalysts for Advanced Applications. <i>ACS Catalysis</i> , <b>2020</b> , 10, 2231-2259	13.1	202
575	Simple size-controlled synthesis of Au nanoparticles and their size-dependent catalytic activity. <i>Scientific Reports</i> , <b>2018</b> , 8, 4589	4.9	190
574	Toxicity of carbon dots Effect of surface functionalization on the cell viability, reactive oxygen species generation and cell cycle. <i>Carbon</i> , <b>2016</b> , 99, 238-248	10.4	188
573	Photoluminescence effects of graphitic core size and surface functional groups in carbon dots: COOIInduced red-shift emission. <i>Carbon</i> , <b>2014</b> , 70, 279-286	10.4	183
57 <sup>2</sup>	In vivo theranostics with near-infrared-emitting carbon dots-highly efficient photothermal therapy based on passive targeting after intravenous administration. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 91	16.7	178
571	Carbon Dot Nanothermometry: Intracellular Photoluminescence Lifetime Thermal Sensing. <i>ACS Nano</i> , <b>2017</b> , 11, 1432-1442	16.7	177
570	Gd(III)-doped carbon dots as a dual fluorescent-MRI probe. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 233	327	169
569	Electrocatalytic methanol oxidation over Cu, Ni and bimetallic Cu-Ni nanoparticles supported on graphitic carbon nitride. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 272-283	21.8	161
568	Growth mechanism of strongly emitting CHNHPbBr perovskite nanocrystals with a tunable bandgap. <i>Nature Communications</i> , <b>2017</b> , 8, 996	17.4	159
567	Silica-nanosphere-based organicIhorganic hybrid nanomaterials: synthesis, functionalization and applications in catalysis. <i>Green Chemistry</i> , <b>2015</b> , 17, 3207-3230	10	159
566	Zero-valent iron nanoparticles in treatment of acid mine water from in situ uranium leaching. <i>Chemosphere</i> , <b>2011</b> , 82, 1178-84	8.4	157

565	Chemistry, properties, and applications of fluorographene. Applied Materials Today, 2017, 9, 60-70	6.6	154
564	Luminescent Surface Quaternized Carbon Dots. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 6-8	9.6	154
563	Recent development of covalent organic frameworks (COFs): synthesis and catalytic (organic-electro-photo) applications. <i>Materials Horizons</i> , <b>2020</b> , 7, 411-454	14.4	153
562	Review on High Valent FeVI (Ferrate): A Sustainable Green Oxidant in Organic Chemistry and Transformation of Pharmaceuticals. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 18-34	8.3	150
561	Photoluminescent Carbon Nanostructures. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4085-4128	9.6	150
560	Graphitic Nitrogen Doping in Carbon Dots Causes Red-Shifted Absorption. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 1303-1308	3.8	149
559	The influence of complexing agent concentration on particle size in the process of SERS active silver colloid synthesis. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 1099-1105		143
558	Ferrate(VI)-induced arsenite and arsenate removal by in situ structural incorporation into magnetic iron(III) oxide nanoparticles. <i>Environmental Science &amp; Environmental Scie</i>	10.3	142
557	Nonlinear Optical Properties and Broadband Optical Power Limiting Action of Graphene Oxide Colloids. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 6842-6850	3.8	139
556	Interactions of aqueous Ag+ with fulvic acids: mechanisms of silver nanoparticle formation and investigation of stability. <i>Environmental Science &amp; Environmental Science &amp; En</i>	10.3	137
555	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> , <b>2017</b> , 27, 1700451	15.6	133
554	Superparamagnetic maghemite nanoparticles from solid-state synthesis - their functionalization towards peroral MRI contrast agent and magnetic carrier for trypsin immobilization. <i>Biomaterials</i> , <b>2009</b> , 30, 2855-63	15.6	133
553	Acute and chronic toxicity effects of silver nanoparticles (NPs) on Drosophila melanogaster. <i>Environmental Science &amp; Environmental Science &amp; Environm</i>	10.3	132
552	Influence of Doping and Temperature on Solvatochromic Shifts in Optical Spectra of Carbon Dots. Journal of Physical Chemistry C, <b>2016</b> , 120, 10591-10604	3.8	132
551	Synthesis and characterization of Fe2O3/carbon hybrids and their application in removal of hexavalent chromium ions from aqueous solutions. <i>Langmuir</i> , <b>2012</b> , 28, 3918-30	4	131
550	Iron-oxide-supported nanocarbon in lithium-ion batteries, medical, catalytic, and environmental applications. <i>ACS Nano</i> , <b>2014</b> , 8, 7571-612	16.7	128
549	Nanocrystalline Iron Oxides, Composites, and Related Materials as a Platform for Electrochemical, Magnetic, and Chemical Biosensors. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6653-6673	9.6	127
548	Doping with Graphitic Nitrogen Triggers Ferromagnetism in Graphene. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3171-3180	16.4	124

547	The Rise of Magnetically Recyclable Nanocatalysts. ChemCatChem, 2014, 6, 3312-3313	5.2	119
546	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> , <b>2015</b> , 51, 2950-3	5.8	117
545	Shape Controlled Hierarchical Porous Hydrophobic/Oleophilic Metal-Organic Nanofibrous Gel Composites for Oil Adsorption. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605307	24	115
544	Microwave-assisted synthesis Catalytic applications in aqueous media. <i>Coordination Chemistry Reviews</i> , <b>2015</b> , 291, 68-94	23.2	112
543	Plasmon-Enhanced Photoelectrochemical Water Splitting for Efficient Renewable Energy Storage. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805513	24	111
542	[email[protected]xP CoreBhell Heterogeneous Nanoparticles as Efficient Oxygen Evolution Reaction Catalysts. <i>ACS Catalysis</i> , <b>2017</b> , 7, 7038-7042	13.1	111
541	Carbon Dot Fluorescence-Lifetime-Encoded Anti-Counterfeiting. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 29902-29908	9.5	110
540	Biogeochemistry of selenium. A review. Environmental Chemistry Letters, 2015, 13, 49-58	13.3	107
539	Multimodal action and selective toxicity of zerovalent iron nanoparticles against cyanobacteria. <i>Environmental Science &amp; Environmental Science &amp; Envi</i>	10.3	104
538	On the Controlled Loading of Single Platinum Atoms as a Co-Catalyst on TiO Anatase for Optimized Photocatalytic H Generation. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908505	24	100
537	Emerging chemical strategies for imprinting magnetism in graphene and related 2D materials for spintronic and biomedical applications. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 3899-3990	58.5	100
536	Surfactant-Derived Amphiphilic Carbon Dots with Tunable Photoluminescence. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 24991-24996	3.8	100
535	Synthesis, Characterization and Aspects of Superhydrophobic Functionalized Carbon Nanotubes. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 2884-2886	9.6	100
534	Maghemite nanoparticles by view of MBsbauer spectroscopy. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 926-47	1.3	100
533	Cyanographene and Graphene Acid: Emerging Derivatives Enabling High-Yield and Selective Functionalization of Graphene. <i>ACS Nano</i> , <b>2017</b> , 11, 2982-2991	16.7	99
532	Metal <b>D</b> rganic Framework (MOF) Derived Electrodes with Robust and Fast Lithium Storage for Li-Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900532	15.6	98
531	Initial Study on the Toxicity of Silver Nanoparticles (NPs) against Paramecium caudatum. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 4296-4300	3.8	97
530	Polyacrylate-Assisted Size Control of Silver Nanoparticles and Their Catalytic Activity. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 1332-1339	9.6	96

529	Silver nanoparticles strongly enhance and restore bactericidal activity of inactive antibiotics against multiresistant Enterobacteriaceae. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 142, 392-399	6	94
528	Band gaps and structural properties of graphene halides and their derivates: a hybrid functional study with localized orbital basis sets. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 034709	3.9	93
527	Hemocompatibility evaluation of different silver nanoparticle concentrations employing a modified Chandler-loop in vitro assay on human blood. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 7460-8	10.8	93
526	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> , <b>2014</b> , 49, 212-28	2.2	92
525	Ferrate(VI)-prompted removal of metals in aqueous media: mechanistic delineation of enhanced efficiency via metal entrenchment in magnetic oxides. <i>Environmental Science &amp; Environmental Science &amp; En</i>	10.3	92
524	Structure and photocatalytic performance of magnetically separable titania photocatalysts for the degradation of propachlor. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 87, 181-189	21.8	90
523	Iron(II,III)Polyphenol Complex Nanoparticles Derived from Green Tea with Remarkable Ecotoxicological Impact. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 1674-1680	8.3	87
522	Anaerobic Reaction of Nanoscale Zerovalent Iron with Water: Mechanism and Kinetics. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 13817-13825	3.8	87
521	Air stable magnetic bimetallic Fe-Ag nanoparticles for advanced antimicrobial treatment and phosphorus removal. <i>Environmental Science &amp; Environmental &amp; Envir</i>	10.3	87
520	Temperature-Dependent Exciton and Trap-Related Photoluminescence of CdTe Quantum Dots Embedded in a NaCl Matrix: Implication in Thermometry. <i>Small</i> , <b>2016</b> , 12, 466-76	11	87
519	Environmental applications of chemically pure natural ferrihydrite. <i>Environmental Science &amp; Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 4367-74	10.3	86
518	Photoanodes with Fully Controllable Texture: The Enhanced Water Splitting Efficiency of Thin Hematite Films Exhibiting Solely (110) Crystal Orientation. <i>ACS Nano</i> , <b>2015</b> , 9, 7113-23	16.7	85
517	FeO/TiO 3D hierarchical nanostructures for enhanced photoelectrochemical water splitting. <i>Nanoscale</i> , <b>2017</b> , 9, 134-142	7.7	85
516	Strong and Nonspecific Synergistic Antibacterial Efficiency of Antibiotics Combined with Silver Nanoparticles at Very Low Concentrations Showing No Cytotoxic Effect. <i>Molecules</i> , <b>2015</b> , 21, E26	4.8	84
515	Iron(III) Oxide Nanoparticles in the Thermally Induced Oxidative Decomposition of Prussian Blue, Fe4[Fe(CN)6]3. <i>Crystal Growth and Design</i> , <b>2004</b> , 4, 1317-1325	3.5	83
514	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> , <b>2015</b> , 3, 6613-6615	7.1	82
513	Graphene and carbon quantum dots electrochemistry. <i>Electrochemistry Communications</i> , <b>2015</b> , 52, 75-79	95.1	82
512	Room temperature organic magnets derived from sp functionalized graphene. <i>Nature Communications</i> , <b>2017</b> , 8, 14525	17.4	81

511	Reactivity of Fluorographene: A Facile Way toward Graphene Derivatives. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 1430-4	6.4	81
510	Oxidation of microcystin-LR by ferrate(VI): kinetics, degradation pathways, and toxicity assessments. <i>Environmental Science &amp; Environmental &amp;</i>	10.3	81
509	Comprehensive study on surfactant role on silver nanoparticles (NPs) prepared via modified Tollens process. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 111, 77-81	4.4	80
508	Maghemite decorated with ultra-small palladium nanoparticles (Fe2O3Pd): applications in the HeckMizoroki olefination, Suzuki reaction and allylic oxidation of alkenes. <i>Green Chemistry</i> , <b>2016</b> , 18, 2363-2373	10	79
507	A high efficiency H2S gas sensor material: paper like Fe2O3/graphene nanosheets and structural alignment dependency of device efficiency. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 6714-6717	13	79
506	Chitosan-based synthesis of magnetically-driven nanocomposites with biogenic magnetite core, controlled silver size, and high antimicrobial activity. <i>Green Chemistry</i> , <b>2012</b> , 14, 2550	10	79
505	Polyacrylate-assisted synthesis of stable copper nanoparticles and copper(I) oxide nanocubes with high catalytic efficiency. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8463		78
504	Thermal behaviour of iron(II) oxalate dihydrate in the atmosphere of its conversion gases. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 1273		78
503	Hydrophobic Metal-Organic Frameworks. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900820	24	76
502	Mixed-Valence Single-Atom Catalyst Derived from Functionalized Graphene. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900323	24	76
501	Synthesis and characterization of robust zero valent iron/mesoporous carbon composites and their applications in arsenic removal. <i>Carbon</i> , <b>2015</b> , 93, 636-647	10.4	75
500	Thiofluorographene-hydrophilic graphene derivative with semiconducting and genosensing properties. <i>Advanced Materials</i> , <b>2015</b> , 27, 2305-10	24	74
499	Nature of Absorption Bands in Oxygen-Functionalized Graphitic Carbon Dots. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 13369-13373	3.8	74
498	Human virus detection with graphene-based materials. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 166, 112436	5 11.8	74
497	Poly(vinylpyrrolidone) supported copper nanoclusters: glutathione enhanced blue photoluminescence for application in phosphor converted light emitting devices. <i>Nanoscale</i> , <b>2016</b> , 8, 7197-202	7.7	72
496	Shape-Assisted 2D MOF/Graphene Derived Hybrids as Exceptional Lithium-Ion Battery Electrodes. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902539	15.6	71
495	Quaternized carbon dot-modified graphene oxide for selective cell labellingcontrolled nucleus and cytoplasm imaging. <i>Chemical Communications</i> , <b>2014</b> , 50, 10782-5	5.8	70
494	Chemical nature of boron and nitrogen dopant atoms in graphene strongly influences its electronic properties. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 14231-5	3.6	68

493	Magnetic gold nanocatalyst (nanocat-FeAu): catalytic applications for the oxidative esterification and hydrogen transfer reactions. <i>Green Chemistry</i> , <b>2014</b> , 16, 4137-4143	10	67
492	Magnetically recyclable magnetitepalladium (Nanocat-Fe <b>B</b> d) nanocatalyst for the BuchwaldHartwig reaction. <i>Green Chemistry</i> , <b>2014</b> , 16, 3494-3500	10	67
491	Sonochemical synthesis of amorphous nanoscopic iron(III) oxide from Fe(acac)3. <i>Ultrasonics Sonochemistry</i> , <b>2008</b> , 15, 257-64	8.9	67
490	Thermally Induced Solid-State Syntheses of Fe2O3 Nanoparticles and Their Transformation to Fe2O3 via Fe2O3. <i>Hyperfine Interactions</i> , <b>2002</b> , 139/140, 597-606	0.8	67
489	Sulfur Doping Induces Strong Ferromagnetic Ordering in Graphene: Effect of Concentration and Substitution Mechanism. <i>Advanced Materials</i> , <b>2016</b> , 28, 5045-53	24	67
488	Determining Plasmonic Hot Electrons and Photothermal Effects during H2 Evolution with TiN <b>B</b> t Nanohybrids. <i>ACS Catalysis</i> , <b>2020</b> , 10, 5261-5271	13.1	66
487	Enhanced antibacterial effect of antibiotics in combination with silver nanoparticles against animal pathogens. <i>Veterinary Journal</i> , <b>2016</b> , 209, 174-9	2.5	66
486	An effect of iron(III) oxides crystallinity on their catalytic efficiency and applicability in phenol degradation (III) oxides crystallinity on their catalytic efficiency and applicability in phenol degradation (III) oxides catalysis. Applied Catalysis A: General, 2009, 366, 325-332	5.1	65
485	Remarkable efficiency of phosphate removal: Ferrate(VI)-induced in situ sorption on core-shell nanoparticles. <i>Water Research</i> , <b>2016</b> , 103, 83-91	12.5	65
484	Ultrathin 2D Cobalt Zeolite-Imidazole Framework Nanosheets for Electrocatalytic Oxygen Evolution. <i>Advanced Science</i> , <b>2018</b> , 5, 1801029	13.6	65
483	Charge binding of rhodamine derivative to OH- stabilized nanomaghemite: universal nanocarrier for construction of magnetofluorescent biosensors. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 2068-76	10.8	64
482	Synthesis, characterization and non-linear optical response of organophilic carbon dots. <i>Carbon</i> , <b>2013</b> , 61, 640-643	10.4	64
481	Ferrate(VI) oxidation of weak-acid dissociable cyanides. <i>Environmental Science &amp; Environmental Scienc</i>	10.3	64
480	Zero-Valent Iron Nanoparticles Reduce Arsenites and Arsenates to As(0) Firmly Embedded in CoreBhell Superstructure: Challenging Strategy of Arsenic Treatment under Anoxic Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 3027-3038	8.3	63
479	Assessment of toxicity of selenium and cadmium selenium quantum dots: A review. <i>Chemosphere</i> , <b>2017</b> , 188, 403-413	8.4	63
478	Carbon Electrodes Modified by Nanoscopic Iron(III) Oxides to Assemble Chemical Sensors for the Hydrogen Peroxide Amperometric Detection. <i>Electroanalysis</i> , <b>2007</b> , 19, 1850-1854	3	63
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