

Radek Zboril

List of Publications by Year in Descending Order

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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.

618 papers	42,908 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	Carbon Nanotube Based Metal-Organic Framework Hybrids From Fundamentals Toward Applications (Small 4/2022). <i>Small</i> , 2022 , 18, 2270017	11	
617	Hierarchical porous metal-organic framework materials for efficient oil-water separation. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 2751-2785	13	3
616	Robust dual cationic ligand for stable and efficient warm-white light emission in lead-free double perovskite nanocrystals. <i>Applied Materials Today</i> , 2022 , 26, 101288	6.6	1
615	Graphene Acid for Lithium-Ion Batteries: Carboxylation Boosts Storage Capacity in Graphene. <i>Advanced Energy Materials</i> , 2022 , 12, 2103010	21.8	6
614	Silica-supported Fe/FeO nanoparticles for the catalytic hydrogenation of nitriles to amines in the presence of aluminium additives. <i>Nature Catalysis</i> , 2022 , 5, 20-29	36.5	11
613	Defect engineering over anisotropic brookite toward substrate-specific photo-oxidation of alcohols. <i>Chem Catalysis</i> , 2022 ,		5
612	Reusable Co-nanoparticles for general and selective -alkylation of amines and ammonia with alcohols.. <i>Chemical Science</i> , 2021 , 13, 111-117	9.4	5
611	Optimized Pt Single Atom Harvesting on TiO Nanotubes-Towards a Most Efficient Photocatalyst. <i>Small</i> , 2021 , e2104892	11	13
610	Emerging MXene@Metal-Organic Framework Hybrids: Design Strategies toward Versatile Applications. <i>ACS Nano</i> , 2021 ,	16.7	10
609	Rational Design of Graphene Derivatives for Electrochemical Reduction of Nitrogen to Ammonia. <i>ACS Nano</i> , 2021 ,	16.7	9
608	Single-Atom (Iron-Based) Catalysts: Synthesis and Applications. <i>Chemical Reviews</i> , 2021 , 121, 13620-13687	38.1	23
607	Enhancing Photoelectrochemical Energy Storage by Large-Area CdS-Coated Nickel Nanoantenna Arrays. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11367-11376	6.1	2
606	Graphene oxide interaction with Lemna minor: Root barrier strong enough to prevent nanoblade-morphology-induced toxicity. <i>Chemosphere</i> , 2021 , 291, 132739	8.4	0
605	Single Co-Atoms as Electrocatalysts for Efficient Hydrazine Oxidation Reaction. <i>Small</i> , 2021 , 17, e2006477	11	16
604	Carbon Nitride-Based Ruthenium Single Atom Photocatalyst for CO Reduction to Methanol. <i>Small</i> , 2021 , 17, e2006478	11	43
603	Carbon Dots Detect Water-to-Ice Phase Transition and Act as Alcohol Sensors Fluorescence Turn-Off/On Mechanism. <i>ACS Nano</i> , 2021 , 15, 6582-6593	16.7	14
602	Spatially Confined Formation of Single Atoms in Highly Porous Carbon Nitride Nanoreactors. <i>ACS Nano</i> , 2021 , 15, 7790-7798	16.7	9

601	Covalently Interlinked Graphene Sheets with Sulfur-Chains Enable Superior Lithium-Sulfur Battery Cathodes at Full-Mass Level. <i>Advanced Functional Materials</i> , 2021 , 31, 2101326	15.6	6
600	Advanced Photocatalysts: Pinning Single Atom Co-Catalysts on Titania Nanotubes. <i>Advanced Functional Materials</i> , 2021 , 31, 2102843	15.6	16
599	Solar steam generation on scalable ultrathin thermoplasmonic TiN nanocavity arrays. <i>Nano Energy</i> , 2021 , 83, 105828	17.1	18
598	Ultrafine TiO ₂ Nanoparticle Supported Nitrogen-Rich Graphitic Porous Carbon as an Efficient Anode Material for Potassium-Ion Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100042	16	2
597	Silver Covalently Bound to Cyanographene Overcomes Bacterial Resistance to Silver Nanoparticles and Antibiotics. <i>Advanced Science</i> , 2021 , 8, 2003090	13.6	13
596	Condensed Clustered Iron Oxides for Ultrahigh Photothermal Conversion and Multimodal Imaging. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29247-29256	9.5	6
595	Nanoscale Assembly of BiVO ₄ /CdS/CoO _x Core/Shell Heterojunction for Enhanced Photoelectrochemical Water Splitting. <i>Catalysts</i> , 2021 , 11, 682	4	2
594	An Earth-Abundant Ni-Based Single-Atom Catalyst for Selective Photodegradation of Pollutants. <i>Solar Rrl</i> , 2021 , 5, 2100176	7.1	12
593	Transparent and Low-Loss Luminescent Solar Concentrators Based on Self-Trapped Exciton Emission in Lead-Free Double Perovskite Nanocrystals. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6445-6453	6.1	10
592	Addition Reaction between Piperidine and C to Form 1,4-Disubstituted C Proceeds through van der Waals and Dative Bond Complexes: Theoretical and Experimental Study. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10930-10939	16.4	3
591	Controlling phase fraction and crystal orientation via thermal oxidation of iron foils for enhanced photoelectrochemical performance. <i>Catalysis Today</i> , 2021 , 361, 117-123	5.3	1
590	The Existence of a N-C Dative Bond in the C ₆₀ -Piperidine Complex. <i>Angewandte Chemie</i> , 2021 , 133, 1970-1978	10.7	3
589	The Existence of a N-C Dative Bond in the C-Piperidine Complex. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1942-1950	16.4	10
588	Advanced Cr(VI) sorption properties of activated carbon produced via pyrolysis of the "Posidonia oceanica" seagrass. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124274	12.8	29
587	Covalent Graphene-MOF Hybrids for High-Performance Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2021 , 33, e2004560	24	51
586	Elucidating the role of surface states of BiVO ₄ with Mo doping and a CoOOH co-catalyst for photoelectrochemical water splitting. <i>Journal of Power Sources</i> , 2021 , 483, 229080	8.9	18
585	Steric and Electronic Effects of Phosphane Additives on the Catalytic Performance of Colloidal Palladium Nanoparticles in the Semi-Hydrogenation of Alkynes. <i>ChemCatChem</i> , 2021 , 13, 227-234	5.2	3
584	Carboxylated Graphene for Radical-Assisted Ultra-Trace-Level Water Treatment and Noble Metal Recovery. <i>ACS Nano</i> , 2021 , 15, 3349-3358	16.7	11

583	Structure-directed formation of the dative/covalent bonds in complexes with Cpiperidine. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4365-4375	3.6	6
582	In situ coating amorphous boride on ternary pyrite-type boron sulfide for highly efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 12283-12290	13	1
581	Nanometallurgy in solution: organometallic synthesis of intermetallic Pd-Ga colloids and their activity in semi-hydrogenation catalysis. <i>Nanoscale</i> , 2021 , 13, 15038-15047	7.7	
580	Silver nanomaterials: synthesis and (electro/photo) catalytic applications. <i>Chemical Society Reviews</i> , 2021 , 50, 11293-11380	58.5	20
579	Asymmetric Supercapacitors: Covalent Graphene-MOF Hybrids for High-Performance Asymmetric Supercapacitors (Adv. Mater. 4/2021). <i>Advanced Materials</i> , 2021 , 33, 2170028	24	4
578	Single-Atom Catalysts: A Sustainable Pathway for the Advanced Catalytic Applications. <i>Small</i> , 2021 , 17, e2006473	11	47
577	Convenient and Reusable Manganese-Based Nanocatalyst for Amination of Alcohols. <i>ChemCatChem</i> , 2021 , 13, 4334	5.2	4
576	Graphene with Covalently Grafted Amino Acid as a Route Toward Eco-Friendly and Sustainable Supercapacitors. <i>ChemSusChem</i> , 2021 , 14, 3904-3914	8.3	5
575	Uncovering the Role of Trioctylphosphine on Colloidal and Emission Stability of Sb-Alloyed CsNaInCl Double Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47845-47859	9.5	7
574	Environmental implications of one-century COPRs evolution in a single industrial site: From leaching impact to sustainable remediation of Cr polluted groundwater. <i>Chemosphere</i> , 2021 , 283, 131211	8.4	2
573	A multifunctional covalently linked graphene-MOF hybrid as an effective chemiresistive gas sensor. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17434-17441	13	5
572	The Hallmarks of Copper Single Atom Catalysts in Direct Alcohol Fuel Cells and Electrochemical CO ₂ Fixation. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001822	4.6	19
571	Peptide nucleic acid stabilized perovskite nanoparticles for nucleic acid sensing. <i>Materials Today Chemistry</i> , 2020 , 17, 100272	6.2	3
570	Nano-immobilized flumequine with preserved antibacterial efficacy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 191, 111019	6	2
569	Smart synthetic maghemite nanoparticles with unique surface properties encode binding specificity toward As. <i>Science of the Total Environment</i> , 2020 , 741, 140175	10.2	5
568	Molybdenum-promoted cobalt supported on SBA-15: Steam and sulfur dioxide stable catalyst for CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119248	21.8	18
567	Purple-emissive carbon dots enhance sensitivity of Si photodetectors to ultraviolet range. <i>Nanoscale</i> , 2020 , 12, 8379-8384	7.7	21
566	Determining Plasmonic Hot Electrons and Photothermal Effects during H ₂ Evolution with TiN@Pt Nanohybrids. <i>ACS Catalysis</i> , 2020 , 10, 5261-5271	13.1	66

565	Multi-Leg TiO ₂ Nanotube Photoelectrodes Modified by Platinized Cyanographene with Enhanced Photoelectrochemical Performance. <i>Catalysts</i> , 2020 , 10, 717	4	4
564	Core-Shell Fe/FeS Nanoparticles with Controlled Shell Thickness for Enhanced Trichloroethylene Removal. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35424-35434	9.5	27
563	Enhancing Magnetic Cooperativity in Fe(II) Triazole-based Spin-crossover Nanoparticles by Pluronic Matrix Confinement. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2637-2641	4.5	
562	N-Graphitic Modified Cobalt Nanoparticles Supported on Graphene for Tandem Dehydrogenation of AmmoniaBorane and Semihydrogenation of Alkynes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11058-11068	8.3	7
561	An Operando X-ray Absorption Spectroscopy Study of a NiCuTiO ₂ Photocatalyst for H ₂ Evolution. <i>ACS Catalysis</i> , 2020 , 10, 8293-8302	13.1	25
560	Atomic-Scale Charge Distribution Mapping of Single Substitutional p- and n-Type Dopants in Graphene. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3437-3444	8.3	3
559	Ultra-small cobalt nanoparticles from molecularly-defined Co-salen complexes for catalytic synthesis of amines. <i>Chemical Science</i> , 2020 , 11, 2973-2981	9.4	21
558	Light- and temperature-assisted spin state annealing: accessing the hidden multistability. <i>Chemical Science</i> , 2020 , 11, 3281-3289	9.4	13
557	On the Controlled Loading of Single Platinum Atoms as a Co-Catalyst on TiO Anatase for Optimized Photocatalytic H Generation. <i>Advanced Materials</i> , 2020 , 32, e1908505	24	100
556	A carbon dot-based tandem luminescent solar concentrator. <i>Nanoscale</i> , 2020 , 12, 6664-6672	7.7	36
555	Sustainable Synthesis of Nanoscale Zerovalent Iron Particles for Environmental Remediation. <i>ChemSusChem</i> , 2020 , 13, 3288-3305	8.3	19
554	Graphitic Carbon NitrideNickel Catalyst: From Material Characterization to Efficient Ethanol Electrooxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7244-7255	8.3	20
553	Mechanochemical synthesis of Cu ₂ S bonded 2D-sulfonated organic polymers: continuous production of dimethyl carbonate (DMC) via preheating of reactants. <i>Green Chemistry</i> , 2020 , 22, 5619-5627	10	9
552	Carbon-Based Single-Atom Catalysts for Advanced Applications. <i>ACS Catalysis</i> , 2020 , 10, 2231-2259	13.1	202
551	Tracing of iron nanoparticles using an elemental signatures approach: laboratory and field-scale verification. <i>Environmental Science: Nano</i> , 2020 , 7, 623-633	7.1	2
550	Influence of Ti ³⁺ defect-type on heterogeneous photocatalytic H ₂ evolution activity of TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1432-1442	13	45
549	Immobilized Enzymes on Graphene as Nanobiocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 250-259	9.5	29
548	FeO-based nanostructures and nanohybrids for photoelectrochemical water splitting. <i>Progress in Materials Science</i> , 2020 , 110, 100632	42.2	33

547	Pinning ultrasmall greigite nanoparticles on graphene for effective transition-metal-sulfide supercapacitors in an ionic liquid electrolyte. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25716-25726	13	7
546	High-performance hydrogen evolution electrocatalysis using proton-intercalated TiO ₂ nanotube arrays as interactive supports for Ir nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22773-22790	13	17
545	Nitrogen-Doped Graphene Aerogel for Simultaneous Detection of Dopamine and Ascorbic Acid in Artificial Cerebrospinal Fluid. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 116521	3.9	4
544	Hierarchical Porous Graphene-Iron Carbide Hybrid Derived From Functionalized Graphene-Based Metal-Organic Gel as Efficient Electrochemical Dopamine Sensor. <i>Frontiers in Chemistry</i> , 2020 , 8, 544	5	5
543	The environmental fate of graphene oxide in aquatic environment-Complete mitigation of its acute toxicity to planktonic and benthic crustaceans by algae. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123027	12.8	10
542	P- and F-co-doped Carbon Nitride Nanocatalysts for Photocatalytic CO Reduction and Thermocatalytic Furanics Synthesis from Sugars. <i>ChemSusChem</i> , 2020 , 13, 5231-5238	8.3	29
541	MHP@MOF Hybrids: Metal Halide Perovskite@Metal-Organic Framework Hybrids: Synthesis, Design, Properties, and Applications (Small 47/2020). <i>Small</i> , 2020 , 16, 2070258	11	
540	Colloidal maghemite nanoparticles with oxyhydroxide-like interface and chiroptical properties. <i>Applied Surface Science</i> , 2020 , 534, 147567	6.7	6
539	Human virus detection with graphene-based materials. <i>Biosensors and Bioelectronics</i> , 2020 , 166, 112436	11.8	74
538	Dual-Function HKUST-1: Templating and Catalyzing Formation of Graphitic Carbon Nitride Quantum Dots Under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21499-21504	16.4	10
537	Dual-Function HKUST-1: Templating and Catalyzing Formation of Graphitic Carbon Nitride Quantum Dots Under Mild Conditions. <i>Angewandte Chemie</i> , 2020 , 132, 21683-21688	3.6	4
536	Pressure-Modulated Broadband Emission in 2D Layered Hybrid Perovskite-Like Bromoplumbate. <i>Inorganic Chemistry</i> , 2020 , 59, 12431-12436	5.1	6
535	Nanoporous Activated Carbon Derived via Pyrolysis Process of Spent Coffee: Structural Characterization. Investigation of Its Use for Hexavalent Chromium Removal. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8812	2.6	8
534	Biotechnological applications of nanostructured hybrids of polyamine carbon quantum dots and iron oxide nanoparticles. <i>Amino Acids</i> , 2020 , 52, 301-311	3.5	6
533	Recent development of covalent organic frameworks (COFs): synthesis and catalytic (organic-electro-photo) applications. <i>Materials Horizons</i> , 2020 , 7, 411-454	14.4	153
532	Fe(0)-embedded thermally reduced graphene oxide as efficient nanocatalyst for reduction of nitro compounds to amines. <i>Chemical Engineering Journal</i> , 2020 , 382, 122469	14.7	28
531	Solar Thermoplasmonic Nanofurnace for High-Temperature Heterogeneous Catalysis. <i>Nano Letters</i> , 2020 , 20, 3663-3672	11.5	20
530	Tailoring topological order and E-conjugation to engineer quasi-metallic polymers. <i>Nature Nanotechnology</i> , 2020 , 15, 437-443	28.7	46

529	Densely Functionalized Cyanographene Bypasses Aqueous Electrolytes and Synthetic Limitations Toward Seamless Graphene/FeOOH Hybrids for Supercapacitors. <i>Advanced Functional Materials</i> , 2019 , 29, 1906998	15.6	11
528	Spin Crossover in Iron(II) Porphyrine Induced by Noncovalent Interactions Combined with Hybridization of Iron(II) Porphyrine and Ligand Orbitals: CASPT2, CCSD(T), and DFT Studies. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23186-23194	3.8	4
527	Spin-Crossover Phenomenon in Microcrystals and Nanoparticles of a [Fe(2-mpz)Ni(CN)] Two-Dimensional Hofmann-Type Polymer: A Detailed Nano-Topographic Study. <i>Inorganic Chemistry</i> , 2019 , 58, 13733-13736	5.1	12
526	Large Enhancement of the Nonlinear Optical Response of Fluorographene by Chemical Functionalization: The Case of Diethyl-amino-fluorographene. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25856-25862	3.8	7
525	Bimodal role of fluorine atoms in fluorographene chemistry opens a simple way toward double functionalization of graphene. <i>Carbon</i> , 2019 , 145, 251-258	10.4	6
524	Polypyrrole and Carbon Nanotube Co-Composited Titania Anodes with Enhanced Sodium Storage Performance in Ether-Based Electrolyte. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800154	5.9	4
523	Stealth Iron Oxide Nanoparticles for Organotropic Drug Targeting. <i>Biomacromolecules</i> , 2019 , 20, 1375-1384	13.4	21
522	Nanoscale Zerovalent Iron Particles for Treatment of Metalloids 2019 , 157-199		4
521	Alkynylation of graphene via the Sonogashira C-C cross-coupling reaction on fluorographene. <i>Chemical Communications</i> , 2019 , 55, 1088-1091	5.8	15
520	Carbon dots for in vivo fluorescence imaging of adipose tissue-derived mesenchymal stromal cells. <i>Carbon</i> , 2019 , 152, 434-443	10.4	30
519	Chemical Tuning of Specific Capacitance in Functionalized Fluorographene. <i>Chemistry of Materials</i> , 2019 , 31, 4698-4709	9.6	19
518	Hydrophobic Metal-Organic Frameworks. <i>Advanced Materials</i> , 2019 , 31, e1900820	24	76
517	Biologically safe colloidal suspensions of naked iron oxide nanoparticles for in situ antibiotic suppression. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 181, 102-111	6	7
516	On-Surface Synthesis of Gold Porphyrin Derivatives via a Cascade of Chemical Interactions: Planarization, Self-Metalation, and Intermolecular Coupling. <i>Chemistry of Materials</i> , 2019 , 31, 3248-3256	9.6	22
515	Single-Atom Catalysis: Mixed-Valence Single-Atom Catalyst Derived from Functionalized Graphene (Adv. Mater. 17/2019). <i>Advanced Materials</i> , 2019 , 31, 1970125	24	5
514	Self-assembly of chlorin-e6 on FeO nanoparticles: Application for larvicidal activity against Aedes aegypti. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 194, 21-31	6.7	14
513	Metal-Organic Framework (MOF) Derived Electrodes with Robust and Fast Lithium Storage for Li-Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2019 , 29, 1900532	15.6	98
512	Thiophenol-Modified Fluorographene Derivatives for Nonlinear Optical Applications. <i>ChemPlusChem</i> , 2019 , 84, 1288-1298	2.8	11

511	Fe2O3 Blocking Layer Produced by Cyclic Voltammetry Leads to Improved Photoelectrochemical Performance of Hematite Nanorods. <i>Surfaces</i> , 2019 , 2, 131-144	2.9	8
510	Plasmon-Enhanced Photoelectrochemical Water Splitting for Efficient Renewable Energy Storage. <i>Advanced Materials</i> , 2019 , 31, e1805513	24	111
509	Conductive Cu-Doped TiO2 Nanotubes for Enhanced Photoelectrochemical Methanol Oxidation and Concomitant Hydrogen Generation. <i>ChemElectroChem</i> , 2019 , 6, 1244-1249	4.3	10
508	Mixed-Valence Single-Atom Catalyst Derived from Functionalized Graphene. <i>Advanced Materials</i> , 2019 , 31, e1900323	24	76
507	Cyanographene and Graphene Acid: The Functional Group of Graphene Derivative Determines the Application in Electrochemical Sensing and Capacitors. <i>ChemElectroChem</i> , 2019 , 6, 229-234	4.3	17
506	Generation and Stabilization of Small Platinum Clusters Pt Inside a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13962-13969	16.4	26
505	Intrinsic photoluminescence of amine-functionalized graphene derivatives for bioimaging applications. <i>Applied Materials Today</i> , 2019 , 17, 112-122	6.6	17
504	Microwave Energy Drives "On-Off-On" Spin-Switch Behavior in Nitrogen-Doped Graphene. <i>Advanced Materials</i> , 2019 , 31, e1902587	24	10
503	Metal-Organic Frameworks: Hydrophobic Metal-Organic Frameworks (Adv. Mater. 32/2019). <i>Advanced Materials</i> , 2019 , 31, 1970230	24	25
502	H2O2 Tolerance in Pseudomonas Fluorescens: Synergy between Pyoverdine-Iron(III) Complex and a Blue Extracellular Product Revealed by a Nanotechnology-Based Electrochemical Approach. <i>ChemElectroChem</i> , 2019 , 6, 5186-5190	4.3	3
501	Providing significantly enhanced photocatalytic H2 generation using porous PtPdAg alloy nanoparticles on spaced TiO2 nanotubes. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 22962-22971	6.7	22
500	Shape-Assisted 2D MOF/Graphene Derived Hybrids as Exceptional Lithium-Ion Battery Electrodes. <i>Advanced Functional Materials</i> , 2019 , 29, 1902539	15.6	71
499	Toxicity of graphene oxide against algae and cyanobacteria: Nanoblade-morphology-induced mechanical injury and self-protection mechanism. <i>Carbon</i> , 2019 , 155, 386-396	10.4	34
498	H2O2 Tolerance in Pseudomonas Fluorescens: Synergy between Pyoverdine-Iron(III) Complex and a Blue Extracellular Product Revealed by a Nanotechnology-Based Electrochemical Approach. <i>ChemElectroChem</i> , 2019 , 6, 5166-5166	4.3	
497	Amorphous Mo-Ta Oxide Nanotubes for Long-Term Stable Mo Oxide-Based Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45665-45673	9.5	7
496	Photocatalytic H2 Evolution: Dealloying as Efficient Tool for the Fabrication of Rh-decorated TiO2 Nanotubes. <i>ChemCatChem</i> , 2019 , 11, 6258-6262	5.2	11
495	Chapter 3:Support Morphology-dependent Activity of Nanocatalysts. <i>RSC Catalysis Series</i> , 2019 , 84-114	0.3	2
494	Radiative and Non-Radiative Recombination Pathways in Mixed-Phase TiO2 Nanotubes for PEC Water-Splitting. <i>Catalysts</i> , 2019 , 9, 204	4	25

493	On-Surface Synthesis of Ethynylene-Bridged Anthracene Polymers. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6559-6563	16.4	31
492	Electric-field enhanced reactivity and migration of iron nanoparticles with implications for groundwater treatment technologies: Proof of concept. <i>Water Research</i> , 2019 , 154, 361-369	12.5	14
491	Selective Functionalization Blended with Scaffold Conductivity in Graphene Acid Promotes HO Electrochemical Sensing. <i>ACS Omega</i> , 2019 , 4, 19944-19952	3.9	12
490	Thermally reduced fluorographenes as efficient electrode materials for supercapacitors. <i>Nanoscale</i> , 2019 , 11, 21364-21375	7.7	10
489	Carboxymethylcellulose-based magnetic Au or Ag nanosystems: Eminent candidates in catalysis, sensing applications based on SERS, and electrochemistry. <i>Applied Materials Today</i> , 2019 , 14, 143-150	6.6	9
488	Recyclable Magnetic Microporous Organic Polymer (MOP) Encapsulated with Palladium Nanoparticles and Co/C Nanobeads for Hydrogenation Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2388-2399	8.3	20
487	US-Czech conference strengthens bilateral and multidisciplinary collaborations in nanotechnology and chemistry. <i>Nanotechnology</i> , 2019 , 30, 052501	3.4	
486	Significant enhancement of photoactivity in one-dimensional TiO ₂ nanorods modified by S-, N-, O-doped carbon nanosheets. <i>Catalysis Today</i> , 2019 , 328, 111-117	5.3	8
485	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	21.8	161
484	Chloroplasts preferentially take up ferric-citrate over iron-nicotianamine complexes in <i>Brassica napus</i> . <i>Planta</i> , 2019 , 249, 751-763	4.7	13
483	Photocatalysis with Reduced TiO: From Black TiO to Cocatalyst-Free Hydrogen Production. <i>ACS Catalysis</i> , 2019 , 9, 345-364	13.1	295
482	Intrinsic Cu nanoparticle decoration of TiO ₂ nanotubes: A platform for efficient noble metal free photocatalytic H ₂ production. <i>Electrochemistry Communications</i> , 2019 , 98, 82-86	5.1	21
481	Unveiling BiVO ₄ nanorods as a novel anode material for high performance lithium ion capacitors: beyond intercalation strategies. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6096-6106	13	58
480	Sb-Doped SnO Nanorods Underlayer Effect to the Fe ₃ O ₄ Nanorods Sheathed with TiO for Enhanced Photoelectrochemical Water Splitting. <i>Small</i> , 2018 , 14, e1703860	11	46
479	Morphology-Dependent Magnetism in Nanographene: Beyond Nanoribbons. <i>Advanced Functional Materials</i> , 2018 , 28, 1800592	15.6	3
478	Hematite Photoanode with Complex Nanoarchitecture Providing Tunable Gradient Doping and Low Onset Potential for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2018 , 11, 1873-1879	8.3	25
477	An efficient copper-based magnetic nanocatalyst for the fixation of carbon dioxide at atmospheric pressure. <i>Scientific Reports</i> , 2018 , 8, 1901	4.9	49
476	Near-Infrared Excitation/Emission and Multiphoton-Induced Fluorescence of Carbon Dots. <i>Advanced Materials</i> , 2018 , 30, e1705913	24	255

475	Spaced Titania Nanotube Arrays Allow the Construction of an Efficient N-Doped Hierarchical Structure for Visible-Light Harvesting. <i>ChemistryOpen</i> , 2018 , 7, 131-135	2.3	3
474	Reactivity of fluorographene is triggered by point defects: beyond the perfect 2D world. <i>Nanoscale</i> , 2018 , 10, 4696-4707	7.7	45
473	Pt nanoparticles decorated TiO ₂ nanotubes for the reduction of olefins. <i>Applied Materials Today</i> , 2018 , 10, 86-92	6.6	13
472	RNA nanopatterning on graphene. <i>2D Materials</i> , 2018 , 5, 031006	5.9	10
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