J Justin Gooding

List of Publications by Year in Descending Order

514 papers	26,237 citations	78 h-index	140 g-index
704 ext. papers	29,477 ext. citations	8.1 avg, IF	7.55 L-index

#	Paper	IF	Citations
514	Engineering regioselectivity in the hydrosilylation of alkynes using heterobimetallic dual-functional hybrid catalysts. *Catalysis Science and Technology*, **2022**, 12, 226-236	5.5	2
513	Optical Nanopore Sensors for Quantitative Analysis.. *Nano Letters*, **2022**,	11.5	3
512	Direct-laser writing for subnanometer focusing and single-molecule imaging.. *Nature Communications*, **2022**, 13, 647	17.4	2
511	Nanorepairers Rescue Inflammation-Induced Mitochondrial Dysfunction in Mesenchymal Stem Cells (Adv. Sci. 4/2022). *Advanced Science*, **2022**, 9, 2270027	13.6	
510	Lanthanide-based Tricalcium Phosphate Upconversion Nanoparticles as an Effective Theranostic Nonviral Vectors for Image-Guided Gene Therapy.. *Nanotheranostics*, **2022**, 6, 306-321	5.6	
509	A single-Pt-atom-on-Ru-nanoparticle electrocatalyst for CO-resilient methanol oxidation. *Nature Catalysis*, **2022**, 5, 231-237	36.5	8
508	Intelligent Gold Nanoparticles with Oncogenic MicroRNA-dependent Activities to Manipulate Tumorigenic Environments for Synergistic Tumor Therapy.. *Advanced Materials*, **2022**, e2110219	24	3
507	Rapid and ultrasensitive electrochemical detection of DNA methylation for ovarian cancer diagnosis.. *Biosensors and Bioelectronics*, **2022**, 206, 114126	11.8	1
506	Spiers Memorial Lecture. Next generation nanoelectrochemistry: the fundamental advances needed for applications. *Faraday Discussions*, **2021**,	3.6	2
505	Key Parameters That Determine the Magnitude of the Decrease in Current in Nanopore Blockade Sensors. *Nano Letters*, **2021**, 21, 9374-9380	11.5	0
504	How to exploit different endocytosis pathways to allow selective delivery of anticancer drugs to cancer cells over healthy cells.. *Chemical Science*, **2021**, 12, 15407-15417	9.4	0
503	Zero-valent iron core-iron oxide shell nanoparticles coated with silica and gold with high saturation magnetization. *Chemical Communications*, **2021**, 57, 13142-13145	5.8	2
502	Modular immune-homeostatic microparticles promote immune tolerance in mouse autoimmune models. *Science Translational Medicine*, **2021**, 13,	17.5	10
501	Katharina Gaus 1972-2021. *Nature Immunology*, **2021**, 22, 535-536	19.1	
500	Can the Shape of Nanoparticles Enable the Targeting to Cancer Cells over Healthy Cells?. *Advanced Functional Materials*, **2021**, 31, 2007880	15.6	7
499	Gold-Coated Magnetic Nanoparticles as Dispersible Electrochemical Biosensors for Ultrasensitive Biosensing **2021**, 59-83		0
498	A Covalently Crosslinked Ink for Multimaterials Drop-on-Demand 3D Bioprinting of 3D Cell Cultures. *Macromolecular Bioscience*, **2021**, 21, e2100125	5.5	5

497	Electrocatalysis in confined space. *Current Opinion in Electrochemistry*, **2021**, 25, 100644	7.2	6
496	3D active stabilization for single-molecule imaging. *Nature Protocols*, **2021**, 16, 497-515	18.8	6
495	Impact of the Coverage of Aptamers on a Nanoparticle on the Binding Equilibrium and Kinetics between Aptamer and Protein. *ACS Sensors*, **2021**, 6, 538-545	9.2	7
494	Rapid and ultrasensitive electrochemical detection of circulating tumor DNA by hybridization on the network of gold-coated magnetic nanoparticles. *Chemical Science*, **2021**, 12, 5196-5201	9.4	20
493	Building a Total Internal Reflection Microscope (TIRF) with Active Stabilization (Feedback SMLM). *Bio-protocol*, **2021**, 11, e4074	0.9	
492	Investigating Spatial Heterogeneity of Nanoparticles Movement in Live Cells with Pair-Correlation Microscopy and Phasor Analysis. *Analytical Chemistry*, **2021**, 93, 3803-3812	7.8	1
491	Role of the Secondary Metal in Ordered and Disordered PtM Intermetallic Nanoparticles: An Example of Pt3Sn Nanocubes for the Electrocatalytic Methanol Oxidation. *ACS Catalysis*, **2021**, 11, 2235-2243	13.1	8
490	Injectable hydrogel with MSNs/microRNA-21-5p delivery enables both immunomodification and enhanced angiogenesis for myocardial infarction therapy in pigs. *Science Advances*, **2021**, 7,	14.3	26
489	FRET theoretical predictions concerning freely diffusive dyes inside spherical container: how to choose the best pair?. *Photochemical and Photobiological Sciences*, **2021**, 20, 275-283	4.2	0
488	Ultrafast generation of highly crystalline graphene quantum dots from graphite paper via laser writing. *Journal of Colloid and Interface Science*, **2021**, 594, 460-465	9.3	9
487	Functionalized Gold Nanorod Probes: A Sophisticated Design of SERS Immunoassay for Biodetection in Complex Media. *Analytical Chemistry*, **2021**, 93, 12954-12965	7.8	2
486	Is Cu instability during the CO reduction reaction governed by the applied potential or the local CO concentration?. *Chemical Science*, **2021**, 12, 4028-4033	9.4	12
485	Synthetic Bone-Like Structures Through Omnidirectional Ceramic Bioprinting in Cell Suspensions. *Advanced Functional Materials*, **2021**, 31, 2008216	15.6	15
484	Ultrasensitive detection of programmed death-ligand 1 (PD-L1) in whole blood using dispersible electrodes. *Chemical Communications*, **2021**, 57, 2559-2562	5.8	6
483	Synthesis of gold-coated magnetic conglomerate nanoparticles with a fast magnetic response for bio-sensing. *Journal of Materials Chemistry C*, **2021**, 9, 1034-1043	7.1	5
482	Carbon supported hybrid catalysts for controlled product selectivity in the hydrosilylation of alkynes. *Catalysis Science and Technology*, **2021**, 11, 1888-1898	5.5	5
481	Controlling hydrogen evolution reaction activity on Ni core-Pt island nanoparticles by tuning the size of the Pt islands. *Chemical Communications*, **2021**, 57, 2788-2791	5.8	3
480	Nanorepairers Rescue Inflammation-Induced Mitochondrial Dysfunction in Mesenchymal Stem Cells. *Advanced Science*, **2021**, e2103839	13.6	4

479	Treatment of infarcted heart tissue via the capture and local delivery of circulating exosomes through antibody-conjugated magnetic nanoparticles. *Nature Biomedical Engineering*, **2020**, 4, 1063-1075	19	46
478	Surface Patterning of Biomolecules Using Click Chemistry and Light-Activated Electrochemistry to Locally Generate Cu(I). *ChemElectroChem*, **2020**, 7, 4245-4250	4.3	0
477	Selectively detecting attomolar concentrations of proteins using gold lined nanopores in a nanopore blockade sensor. *Chemical Science*, **2020**, 11, 12570-12579	9.4	12
476	Tuning of the Aggregation Behavior of Fluorinated Polymeric Nanoparticles for Improved Therapeutic Efficacy. *ACS Nano*, **2020**, 14, 7425-7434	16.7	18
475	High-resolution light-activated electrochemistry on amorphous silicon-based photoelectrodes. *Chemical Communications*, **2020**, 56, 7435-7438	5.8	4
474	Facettierte verzweigte Nickel-Nanopartikel mit variierbarer Verzweigungslänge für die hochaktive elektrokatalytische Oxidation von Biomasse. *Angewandte Chemie*, **2020**, 132, 15615-15620	3.6	13
473	Confronting Racism in Chemistry Journals. *ACS Applied Nano Materials*, **2020**, 3, 6131-6133	5.6	
472	Confronting Racism in Chemistry Journals. *ACS Applied Polymer Materials*, **2020**, 2, 2496-2498	4.3	
471	CRISPR Mediated Biosensing Toward Understanding Cellular Biology and Point-of-Care Diagnosis. *Angewandte Chemie*, **2020**, 132, 20938-20950	3.6	17
470	CRISPR Mediated Biosensing Toward Understanding Cellular Biology and Point-of-Care Diagnosis. *Angewandte Chemie - International Edition*, **2020**, 59, 20754-20766	16.4	60
469	Confronting Racism in Chemistry Journals. *Organometallics*, **2020**, 39, 2331-2333	3.8	
468	Nanoparticles as contrast agents for the diagnosis of Alzheimer's disease: a systematic review. *Nanomedicine*, **2020**, 15, 725-743	5.6	13
467	Increasing the Formation of Active Sites on Highly Crystalline Co Branched Nanoparticles for Improved Oxygen Evolution Reaction Electrocatalysis. *ChemCatChem*, **2020**, 12, 3126-3131	5.2	4
466	Evaluating the sensing performance of nanopore blockade sensors: A case study of prostate-specific antigen assay. *Biosensors and Bioelectronics*, **2020**, 165, 112434	11.8	5
465	Update to Our Reader, Reviewer, and Author Communities April 2020. *Energy & Fuels*, **2020**, 34, 5107-5108	4.1	
464	Zero valent iron core-iron oxide shell nanoparticles as small magnetic particle imaging tracers. *Chemical Communications*, **2020**, 56, 3504-3507	5.8	12
463	Recent Advances and a Roadmap to Wearable UV Sensor Technologies. *Advanced Materials Technologies*, **2020**, 5, 1901036	6.8	42
462	Preserving the Exposed Facets of PtSn Intermetallic Nanocubes During an Order to Disorder Transition Allows the Elucidation of the Effect of the Degree of Alloy Ordering on Electrocatalysis. *Journal of the American Chemical Society*, **2020**, 142, 3231-3239	16.4	29

461	Patterned Molecular Films of Alkanethiol and PLL-PEG on Gold-Silicate Interfaces: How to Add Functionalities while Retaining Effective Antifouling. *Langmuir*, **2020**, 36, 5243-5250	4	7
460	Metal-Organic Framework-Enhanced Solid-Phase Microextraction Mass Spectrometry for the Direct and Rapid Detection of Perfluorooctanoic Acid in Environmental Water Samples. *Analytical Chemistry*, **2020**, 92, 6900-6908	7.8	16
459	Update to Our Reader, Reviewer, and Author Communities: April 2020. *Organometallics*, **2020**, 39, 1665-1666	3.8	
458	Confronting Racism in Chemistry Journals. *Journal of Chemical Health and Safety*, **2020**, 27, 198-200	1.7	
457	Controlling Pt Crystal Defects on the Surface of Ni@Pt Core–Shell Nanoparticles for Active and Stable Electrocatalysts for Oxygen Reduction. *ACS Applied Nano Materials*, **2020**, 3, 5995-6000	5.6	7
456	The application of personal glucose meters as universal point-of-care diagnostic tools. *Biosensors and Bioelectronics*, **2020**, 148, 111835	11.8	34
455	Optical tweezers-based characterisation of gold core-satellite plasmonic nano-assemblies incorporating thermo-responsive polymers. *Nanoscale*, **2020**, 12, 1680-1687	7.7	8
454	Paper-Based Ratiometric Fluorescence Analytical Devices towards Point-of-Care Testing of Human Serum Albumin. *Angewandte Chemie*, **2020**, 132, 3155-3160	3.6	15
453	Paper-Based Ratiometric Fluorescence Analytical Devices towards Point-of-Care Testing of Human Serum Albumin. *Angewandte Chemie - International Edition*, **2020**, 59, 3131-3136	16.4	68
452	Heterojunctions Based on Amorphous Silicon: A Versatile Surface Engineering Strategy To Tune Peak Position of Redox Monolayers on Photoelectrodes. *Journal of Physical Chemistry C*, **2020**, 124, 836-844	3.8	10
451	A modular design strategy to integrate mechanotransduction concepts in scaffold-based bone tissue engineering. *Acta Biomaterialia*, **2020**, 118, 100-112	10.8	7
450	Single particle detection of protein molecules using dark-field microscopy to avoid signals from nonspecific adsorption. *Biosensors and Bioelectronics*, **2020**, 169, 112612	11.8	7
449	Porous Graphene Oxide Films Prepared via the Breath-Figure Method: A Simple Strategy for Switching Access of Redox Species to an Electrode Surface. *ACS Applied Materials & Interfaces*, **2020**, 12, 55181-55188	9.5	4
448	A 3D Bioprinter Specifically Designed for the High-Throughput Production of Matrix-Embedded Multicellular Spheroids. *IScience*, **2020**, 23, 101621	6.1	20
447	Harnessing silicon facet-dependent conductivity to enhance the direct-current produced by a sliding Schottky diode triboelectric nanogenerator. *Nano Energy*, **2020**, 78, 105210	17.1	20
446	Electrostatic Regulation of TEMPO Oxidation by Distal Molecular Charges. *ChemElectroChem*, **2020**, 7, 3522-3527	4.3	1
445	Elliptical supra-cellular topographies regulate stem cells migratory pattern and osteogenic differentiation. *Materialia*, **2020**, 14, 100870	3.2	3
444	Controlling the Number of Branches and Surface Facets of Pd-Core Ru-Branched Nanoparticles to Make Highly Active Oxygen Evolution Reaction Electrocatalysts. *Chemistry - A European Journal*, **2020**, 26, 15501-15504	4.8	1

443	How Nanoparticles Transform Single Molecule Measurements into Quantitative Sensors. *Advanced Materials*, **2020**, 32, e1904339	24	15
442	Spatially localized electrodeposition of multiple metals via light-activated electrochemistry for surface enhanced Raman spectroscopy applications. *Chemical Communications*, **2020**, 56, 5831-5834	5.8	3
441	Ultraprecise single-molecule localization microscopy enables in situ distance measurements in intact cells. *Science Advances*, **2020**, 6, eaay8271	14.3	31
440	Functionalized Silicon Electrodes in Electrochemistry. *Annual Review of Analytical Chemistry*, **2020**, 13, 135-158	12.5	15
439	Monitoring the heterogeneity in single cell responses to drugs using electrochemical impedance and electrochemical noise. *Chemical Science*, **2020**, 12, 2558-2566	9.4	1
438	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for High-Activity Electrocatalytic Oxidation of Biomass. *Angewandte Chemie - International Edition*, **2020**, 59, 15487-15491	16.4	41
437	Controlling Metallic Nanoparticle Redox Properties for Improved Methanol Oxidation Reaction Electrocatalysis. *ChemCatChem*, **2019**, 11, 5989-5993	5.2	3
436	Cascade Reactions in Nanozymes: Spatially Separated Active Sites inside Ag-Core-Porous-Cu-Shell Nanoparticles for Multistep Carbon Dioxide Reduction to Higher Organic Molecules. *Journal of the American Chemical Society*, **2019**, 141, 14093-14097	16.4	65
435	Direct Growth of Highly Strained Pt Islands on Branched Ni Nanoparticles for Improved Hydrogen Evolution Reaction Activity. *Journal of the American Chemical Society*, **2019**, 141, 16202-16207	16.4	67
434	Lighting Up Biosensors: Now and the Decade To Come. *Analytical Chemistry*, **2019**, 91, 8732-8738	7.8	26
433	Light-addressable electrochemistry at semiconductor electrodes: redox imaging, mask-free lithography and spatially resolved chemical and biological sensing. *Chemical Society Reviews*, **2019**, 48, 3723-3739	58.5	28
432	Intrinsic and well-defined second generation hot spots in gold nanobipyramids versus gold nanorods. *Chemical Communications*, **2019**, 55, 7707-7710	5.8	14
431	Nanopore blockade sensors for ultrasensitive detection of proteins in complex biological samples. *Nature Communications*, **2019**, 10, 2109	17.4	68
430	Microwave-assisted synthesis of black phosphorus quantum dots: efficient electrocatalyst for oxygen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 12974-12978	13	40
429	Understanding the performance of a paper-based UV exposure sensor: The photodegradation mechanism of brilliant blue FCF in the presence of TiO photocatalysts in both the solid state and solution. *Rapid Communications in Mass Spectrometry*, **2019**, 33, 1076-1083	2.2	3
428	Electrochemistry on Tribocharged Polymers Is Governed by the Stability of Surface Charges Rather than Charging Magnitude. *Journal of the American Chemical Society*, **2019**, 141, 5863-5870	16.4	23
427	Formation of Branched Ruthenium Nanoparticles for Improved Electrocatalysis of Oxygen Evolution Reaction. *Small*, **2019**, 15, e1804577	11	33
426	Screen-printable films of graphene/CoS2/Ni3S4 composites for the fabrication of flexible and arbitrary-shaped all-solid-state hybrid supercapacitors. *Carbon*, **2019**, 146, 557-567	10.4	49

425	In My Element: Gold. *Chemistry - A European Journal*, **2019**, 25, 5335-5336	4.8	2
424	Forming Ferrocenyl Self-Assembled Monolayers on Si(100) Electrodes with Different Alkyl Chain Lengths for Electron Transfer Studies. *ChemElectroChem*, **2019**, 6, 211-220	4.3	12
423	Synthesis of low- and high-index faceted metal (Pt, Pd, Ru, Ir, Rh) nanoparticles for improved activity and stability in electrocatalysis. *Nanoscale*, **2019**, 11, 18995-19011	7.7	69
422	Observing the Reversible Single Molecule Electrochemistry of Alexa Fluor 647 Dyes by Total Internal Reflection Fluorescence Microscopy. *Angewandte Chemie - International Edition*, **2019**, 58, 14495-14498	16.4	7
421	The impact of nanoparticle shape on cellular internalisation and transport: what do the different analysis methods tell us?. *Materials Horizons*, **2019**, 6, 1538-1547	14.4	58
420	Review of Carbon and Graphene Quantum Dots for Sensing. *ACS Sensors*, **2019**, 4, 1732-1748	9.2	362
419	Advances in the Application of Magnetic Nanoparticles for Sensing. *Advanced Materials*, **2019**, 31, e1904385	24	114
418	Observing the Reversible Single Molecule Electrochemistry of Alexa Fluor 647 Dyes by Total Internal Reflection Fluorescence Microscopy. *Angewandte Chemie*, **2019**, 131, 14637-14640	3.6	0
417	The importance of nanoscale confinement to electrocatalytic performance. *Chemical Science*, **2019**, 11, 1233-1240	9.4	23
416	The use of a personal glucose meter for detecting procalcitonin through glucose encapsulated within liposomes. *Analyst, The*, **2019**, 144, 6225-6230	5	12
415	tagPAINT: covalent labelling of genetically encoded protein tags for DNA-PAINT imaging. *Royal Society Open Science*, **2019**, 6, 191268	3.3	11
414	Characterization of functionalized glass and indium tin oxide surfaces as substrates for super-resolution microscopy. *Journal Physics D: Applied Physics*, **2019**, 52, 034003	3	1
413	Challenges and Solutions in Developing Ultrasensitive Biosensors. *Journal of the American Chemical Society*, **2019**, 141, 1162-1170	16.4	131
412	Micropatterning of porous silicon B ragg reflectors with poly(ethylene glycol) to fabricate cell microarrays: Towards single cell sensing. *Biosensors and Bioelectronics*, **2019**, 127, 229-235	11.8	14
411	Simultaneous Functionalization of Carbon Surfaces with Rhodium and Iridium Organometallic Complexes: Hybrid Bimetallic Catalysts for Hydroamination. *Organometallics*, **2019**, 38, 780-787	3.8	14
410	Amorphous silicon on indium tin oxide: a transparent electrode for simultaneous light activated electrochemistry and optical microscopy. *Chemical Communications*, **2018**, 55, 123-126	5.8	12
409	Enhanced colloidal stability and protein resistance of layered double hydroxide nanoparticles with phosphonic acid-terminated PEG coating for drug delivery. *Journal of Colloid and Interface Science*, **2018**, 521, 242-251	9.3	42
408	Locked nucleic acid molecular beacon for multiplex detection of loop mediated isothermal amplification. *Sensors and Actuators B: Chemical*, **2018**, 268, 255-263	8.5	28

407	A flexible polyaniline-based bioelectronic patch. *Biomaterials Science*, **2018**, 6, 493-500	7.4	20
406	Dual Signaling DNA Electrochemistry: An Approach To Understand DNA Interfaces. *Langmuir*, **2018**, 34, 1249-1255	4	13
405	Thermoresponsive plasmonic core-satellite nanostructures with reversible, temperature sensitive optical properties. *Nanoscale*, **2018**, 10, 4284-4290	7.7	17
404	Electrochemical Microscopy Based on Spatial Light Modulators: A Projection System to Spatially Address Electrochemical Reactions at Semiconductors. *Journal of the Electrochemical Society*, **2018**, 165, H3085-H3092	3.9	26
403	Antimicrobial activity of T4 bacteriophage conjugated indium tin oxide surfaces. *Journal of Colloid and Interface Science*, **2018**, 514, 227-233	9.3	6
402	Flexible fiber-shaped non-enzymatic sensors with a graphene-metal heterostructure based on graphene fibres decorated with gold nanosheets. *Carbon*, **2018**, 136, 329-336	10.4	41
401	Cesium compounds as interface modifiers for stable and efficient perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2018**, 174, 172-186	6.4	38
400	Ultralow- and Low-Background Surfaces for Single-Molecule Localization Microscopy of Multistep Biointerfaces for Single-Molecule Sensing. *Langmuir*, **2018**, 34, 10012-10018	4	11
399	Pd-Ru core-shell nanoparticles with tunable shell thickness for active and stable oxygen evolution performance. *Nanoscale*, **2018**, 10, 15173-15177	7.7	30
398	High F-Content Perfluoropolyether-Based Nanoparticles for Targeted Detection of Breast Cancer by F Magnetic Resonance and Optical Imaging. *ACS Nano*, **2018**, 12, 9162-9176	16.7	70
397	Nucleic acid hybridization on an electrically reconfigurable network of gold-coated magnetic nanoparticles enables microRNA detection in blood. *Nature Nanotechnology*, **2018**, 13, 1066-1071	28.7	159
396	Systematic review of the impact of point-of-care testing for influenza on the outcomes of patients with acute respiratory tract infection. *Reviews in Medical Virology*, **2018**, 28, e1995	11.7	36
395	Synthesis, optical properties and theoretical modelling of discrete emitting states in doped silicon nanocrystals for bioimaging. *Nanoscale*, **2018**, 10, 15600-15607	7.7	10
394	Monolayer surface chemistry enables 2-colour single molecule localisation microscopy of adhesive ligands and adhesion proteins. *Nature Communications*, **2018**, 9, 3320	17.4	11
393	Core–Satellite Mesoporous Silica–Gold Nanotheranostics for Biological Stimuli Triggered Multimodal Cancer Therapy. *Advanced Functional Materials*, **2018**, 28, 1801961	15.6	68
392	Three-Dimensional Branched and Faceted Gold–Ruthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. *Angewandte Chemie*, **2018**, 130, 10398-10402	3.6	17
391	A photoelectrochemical platform for the capture and release of rare single cells. *Nature Communications*, **2018**, 9, 2288	17.4	50
390	A graphene-based sensor for real time monitoring of sun exposure. *Carbon*, **2018**, 138, 215-218	10.4	6

389	Three-Dimensional Branched and Faceted Gold-Ruthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. *Angewandte Chemie - International Edition*, **2018**, 57, 10241-10245	16.4	57
388	Biomolecule Attachment to Porous Silicon **2018**, 1027-1050		
387	Porous Silicon: Vertical Integration of Cell-Laden Hydrogels with Bioinspired Photonic Crystal Membranes (Adv. Mater. Interfaces 23/2018). *Advanced Materials Interfaces*, **2018**, 5, 1870115	4.6	
386	Nanocrystal Inks: Photoelectrochemical Printing of Cu2O Nanocrystals on Silicon with 2D Control on Polyhedral Shapes. *Advanced Functional Materials*, **2018**, 28, 1804791	15.6	17
385	Light-Addressable Ion Sensing for Real-Time Monitoring of Extracellular Potassium. *Angewandte Chemie*, **2018**, 130, 17043-17047	3.6	2
384	Light-Addressable Ion Sensing for Real-Time Monitoring of Extracellular Potassium. *Angewandte Chemie - International Edition*, **2018**, 57, 16801-16805	16.4	20
383	Optimising porous silicon Bragg reflectors for narrow spectral resonances. *Journal of Applied Physics*, **2018**, 124, 163103	2.5	3
382	Electrocatalytic Nanoparticles That Mimic the Three-Dimensional Geometric Architecture of Enzymes: Nanozymes. *Journal of the American Chemical Society*, **2018**, 140, 13449-13455	16.4	45
381	Cubic-Core Hexagonal-Branch Mechanism To Synthesize Bimetallic Branched and Faceted Pd-Ru Nanoparticles for Oxygen Evolution Reaction Electrocatalysis. *Journal of the American Chemical Society*, **2018**, 140, 12760-12764	16.4	58
380	Reversible Thermoresponsive Plasmonic Core-Satellite Nanostructures That Exhibit Both Expansion and Contraction (UCST and LCST). *Macromolecular Rapid Communications*, **2018**, 39, e1800451	4.8	15
379	Ultrafast fabrication of high-aspect-ratio macropores in P-type silicon: toward the mass production of microdevices. *Materials Research Letters*, **2018**, 6, 648-654	7.4	8
378	Biodegradable 2D Fe-Al Hydroxide for Nanocatalytic Tumor-Dynamic Therapy with Tumor Specificity. *Advanced Science*, **2018**, 5, 1801155	13.6	73
377	Vertical Integration of Cell-Laden Hydrogels with Bioinspired Photonic Crystal Membranes. *Advanced Materials Interfaces*, **2018**, 5, 1801233	4.6	2
376	DNA-Hybridization Detection on Si(100) Surfaces Using Light-Activated Electrochemistry: A Comparative Study between Bovine Serum Albumin and Hexaethylene Glycol as Antifouling Layers. *Langmuir*, **2018**, 34, 14817-14824	4	8
375	Minimum information reporting in bio-nano experimental literature. *Nature Nanotechnology*, **2018**, 13, 777-785	28.7	297
374	Understanding the Effect of Au in AuPd Bimetallic Nanocrystals on the Electrocatalysis of the Methanol Oxidation Reaction. *Journal of Physical Chemistry C*, **2018**, 122, 21718-21723	3.8	26
373	Rod-shaped mesoporous silica nanoparticles for nanomedicine: recent progress and perspectives. *Expert Opinion on Drug Delivery*, **2018**, 15, 881-892	8	35
372	The Impact of the Position of the Redox Label on Charge Transfer and Hybridization Efficiency at DNA Interfaces. *Electroanalysis*, **2018**, 30, 1529-1535	3	7

371	Realizing 11.3% efficiency in PffBT4T-2OD fullerene organic solar cells via superior charge extraction at interfaces. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	8
370	A rapid readout for many single plasmonic nanoparticles using dark-field microscopy and digital color analysis. *Biosensors and Bioelectronics*, **2018**, 117, 530-536	11.8	28
369	Solution Synthesis, Surface Passivation, Optical Properties, Biomedical Applications, and Cytotoxicity of Silicon and Germanium Nanocrystals. *ChemPlusChem*, **2017**, 82, 60-73	2.8	36
368	Welcome to the First Anniversary Issue of ACS Sensors. *ACS Sensors*, **2017**, 2, 1-2	9.2	
367	Colloidal silicon quantum dots: from preparation to the modification of self-assembled monolayers for bioimaging and sensing applications **2017**,		3
366	Coupled Thermodynamic and Kinetic Changes in the Electrochemistry of Ferrocenyl Monolayers Induced by Light. *Langmuir*, **2017**, 33, 2497-2503	4	12
365	Wafer-scale fabrication of a Cu/graphene double-nanocap array for surface-enhanced Raman scattering substrates. *Chemical Communications*, **2017**, 53, 3273-3276	5.8	12
364	Single-molecule electrical contacts on silicon electrodes under ambient conditions. *Nature Communications*, **2017**, 8, 15056	17.4	60
363	Reflecting on How ACS Sensors Can Help Advance the Field of Sensing. *ACS Sensors*, **2017**, 2, 455-456	9.2	
362	Iridium(III) homo- and heterogeneous catalysed hydrogen borrowing C□N bond formation. *Green Chemistry*, **2017**, 19, 3142-3151	10	31
361	Role of Surface Capping Molecule Polarity on the Optical Properties of Solution Synthesized Germanium Nanocrystals. *Langmuir*, **2017**, 33, 8790-8798	4	4
360	A FRET sensor enables quantitative measurements of membrane charges in live cells. *Nature Biotechnology*, **2017**, 35, 363-370	44.5	30
359	A balance-in-a-box: an integrated paper-based weighing balance for infant birth weight determination. *Analytical Methods*, **2017**, 9, 66-75	3.2	7
358	Simultaneous impedance spectroscopy and fluorescence microscopy for the real-time monitoring of the response of cells to drugs. *Chemical Science*, **2017**, 8, 1831-1840	9.4	18
357	T4 bacteriophage conjugated magnetic particles for E. coli capturing: Influence of bacteriophage loading, temperature and tryptone. *Colloids and Surfaces B: Biointerfaces*, **2017**, 151, 47-57	6	14
356	Recent advances in the molecular level modification of electrodes for bioelectrochemistry. *Current Opinion in Electrochemistry*, **2017**, 5, 203-210	7.2	7
355	Size and shape evolution of highly magnetic iron nanoparticles from successive growth reactions. *Chemical Communications*, **2017**, 53, 11548-11551	5.8	19
354	August 2017: Two Years of Submissions. *ACS Sensors*, **2017**, 2, 1068-1069	9.2	

353	Real-Time Bioimpedance Sensing of Antifibrotic Drug Action in Primary Human Cells. *ACS Sensors*, **2017**, 2, 1482-1490	9.2	14
352	Modular photo-induced RAFT polymerised hydrogels via thiol-ene click chemistry for 3D cell culturing. *Polymer Chemistry*, **2017**, 8, 6123-6133	4.9	14
351	Light-activated electrochemistry without surface-bound redox species. *Electrochimica Acta*, **2017**, 251, 250-255	6.7	9
350	Role of fullerene electron transport layer on the morphology and optoelectronic properties of perovskite solar cells. *Organic Electronics*, **2017**, 50, 279-289	3.5	30
349	Versatile Fabrication Approach of Conductive Hydrogels via Copolymerization with Vinyl Monomers. *ACS Applied Materials & Interfaces*, **2017**, 9, 44124-44133	9.5	22
348	A Potentiometric Sensor for pH Monitoring with an Integrated Electrochromic Readout on Paper. *Australian Journal of Chemistry*, **2017**, 70, 979	1.2	14
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