

# J Justin Gooding

## List of Publications by Citations

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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.

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	Carbon nanomaterials in biosensors: should you use nanotubes or graphene?. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 2114-38	16.4	1188
513	Nanostructuring electrodes with carbon nanotubes: A review on electrochemistry and applications for sensing. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 3049-3060	6.7	918
512	Protein electrochemistry using aligned carbon nanotube arrays. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 9006-7	16.4	773
511	Self-Assembled Monolayers into the 21st Century: Recent Advances and Applications. <i>Electroanalysis</i> , <b>2003</b> , 15, 81-96	3	505
510	Recent advances in paper-based sensors. <i>Sensors</i> , <b>2012</b> , 12, 11505-26	3.8	474
509	Carbon nanotubes for biological and biomedical applications. <i>Nanotechnology</i> , <b>2007</b> , 18, 412001	3.4	460
508	Strategies for chemical modification of graphene and applications of chemically modified graphene. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 12435		395
507	The molecular level modification of surfaces: from self-assembled monolayers to complex molecular assemblies. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 2704-18	58.5	386
506	Review of Carbon and Graphene Quantum Dots for Sensing. <i>ACS Sensors</i> , <b>2019</b> , 4, 1732-1748	9.2	362
505	Colloidal silicon quantum dots: from preparation to the modification of self-assembled monolayers (SAMs) for bio-applications. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 2680-700	58.5	318
504	Minimum information reporting in bio-nano experimental literature. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 777-785	28.7	297
503	Achieving Direct Electrical Connection to Glucose Oxidase Using Aligned Single Walled Carbon Nanotube Arrays. <i>Electroanalysis</i> , <b>2005</b> , 17, 38-46	3	273
502	Pre-existing clusters of the adaptor Lat do not participate in early T cell signaling events. <i>Nature Immunology</i> , <b>2011</b> , 12, 655-62	19.1	261
501	Wet chemical routes to the assembly of organic monolayers on silicon surfaces via the formation of Si-C bonds: surface preparation, passivation and functionalization. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 2158-83	58.5	258
500	Electrochemical approach of anticancer drugs--DNA interaction. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2005</b> , 37, 205-17	3.5	242
499	Functionalization of acetylene-terminated monolayers on Si(100) surfaces: a click chemistry approach. <i>Langmuir</i> , <b>2007</b> , 23, 9320-9	4	241
498	Effects of surface charge and hydrophobicity on anodic biofilm formation, community composition, and current generation in bioelectrochemical systems. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 7563-70	10.3	234

497	Fabrication and Dispersion of Gold-Shell-Protected Magnetite Nanoparticles: Systematic Control Using Polyethyleneimine. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 673-681	9.6	227
496	Characterisation of gold electrodes modified with self-assembled monolayers of l-cysteine for the adsorptive stripping analysis of copper. <i>Journal of Electroanalytical Chemistry</i> , <b>2001</b> , 516, 10-16	4.1	227
495	Pair correlation microscopy reveals the role of nanoparticle shape in intracellular transport and site of drug release. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 81-89	28.7	226
494	Graphene and Related Materials in Electrochemical Sensing. <i>Electroanalysis</i> , <b>2011</b> , 23, 803-826	3	225
493	Advances in Interfacial Design for Electrochemical Biosensors and Sensors: Aryl Diazonium Salts for Modifying Carbon and Metal Electrodes. <i>Electroanalysis</i> , <b>2008</b> , 20, 573-582	3	220
492	An introduction to electrochemical DNA biosensors. <i>Analyst, The</i> , <b>2007</b> , 132, 603-10	5	215
491	Brief review of monitoring methods for loop-mediated isothermal amplification (LAMP). <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 61, 491-9	11.8	213
490	Voltammetric determination of DNA hybridization using methylene blue and self-assembled alkanethiol monolayer on gold electrodes. <i>Analytica Chimica Acta</i> , <b>2002</b> , 462, 39-47	6.6	211
489	Platinum-catalyzed enzyme electrodes immobilized on gold using self-assembled layers. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 2396-402	7.8	211
488	The application of alkanethiol self-assembled monolayers to enzyme electrodes. <i>TrAC - Trends in Analytical Chemistry</i> , <b>1999</b> , 18, 525-533	14.6	200
487	Demonstration of the importance of oxygenated species at the ends of carbon nanotubes for their favourable electrochemical properties. <i>Chemical Communications</i> , <b>2005</b> , 842-4	5.8	199
486	Diazonium salts: Stable monolayers on gold electrodes for sensing applications. <i>Journal of Electroanalytical Chemistry</i> , <b>2007</b> , 600, 335-344	4.1	168
485	Single-Molecule Sensors: Challenges and Opportunities for Quantitative Analysis. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 11354-66	16.4	163
484	Nucleic acid hybridization on an electrically reconfigurable network of gold-coated magnetic nanoparticles enables microRNA detection in blood. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 1066-1071	28.7	159
483	The modification of glassy carbon and gold electrodes with aryl diazonium salt: The impact of the electrode materials on the rate of heterogeneous electron transfer. <i>Chemical Physics</i> , <b>2005</b> , 319, 136-146	2.3	153
482	Proximity extension of circular DNA aptamers with real-time protein detection. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, e64	20.1	152
481	Charge transfer through DNA: A selective electrochemical DNA biosensor. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 2138-44	7.8	151
480	Biosensor technology for detecting biological warfare agents: Recent progress and future trends. <i>Analytica Chimica Acta</i> , <b>2006</b> , 559, 137-151	6.6	150

479	DNA recognition interfaces: the influence of interfacial design on the efficiency and kinetics of hybridization. <i>Langmuir</i> , <b>2005</b> , 21, 6957-65	4	145
478	Sub-ppt detection limits for copper ions with Gly-Gly-His modified electrodes. <i>Chemical Communications</i> , <b>2001</b> , 1982-3	5.8	145
477	The importance of surface chemistry in mesoporous materials: lessons from porous silicon biosensors. <i>Chemical Communications</i> , <b>2009</b> , 630-40	5.8	143
476	Gold coated magnetic nanoparticles: from preparation to surface modification for analytical and biomedical applications. <i>Chemical Communications</i> , <b>2016</b> , 52, 7528-40	5.8	141
475	An interface comprising molecular wires and poly(ethylene glycol) spacer units self-assembled on carbon electrodes for studies of protein electrochemistry. <i>Langmuir</i> , <b>2006</b> , 22, 7421-30	4	137
474	The fabrication of stable gold nanoparticle-modified interfaces for electrochemistry. <i>Langmuir</i> , <b>2011</b> , 27, 4176-83	4	135
473	Carbon quantum dots directly generated from electrochemical oxidation of graphite electrodes in alkaline alcohols and the applications for specific ferric ion detection and cell imaging. <i>Analyst, The</i> , <b>2016</b> , 141, 2657-64	5	134
472	Importance of monolayer quality for interpreting current transport through organic molecules: alkyls on oxide-free Si. <i>Langmuir</i> , <b>2006</b> , 22, 6915-22	4	133
471	Formation of efficient electron transfer pathways by adsorbing gold nanoparticles to self-assembled monolayer modified electrodes. <i>Langmuir</i> , <b>2009</b> , 25, 11121-8	4	132
470	Functional role of T-cell receptor nanoclusters in signal initiation and antigen discrimination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E5454-63	11.5	131
469	A conducting polymer with enhanced electronic stability applied in cardiac models. <i>Science Advances</i> , <b>2016</b> , 2, e1601007	14.3	131
468	Challenges and Solutions in Developing Ultrasensitive Biosensors. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 1162-1170	16.4	131
467	Observation of electrochemically controlled quantum interference in a single anthraquinone-based norbornylogous bridge molecule. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 3203-6	16.4	128
466	Functionalization Strategies for Protease Immobilization on Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 1767-1777	15.6	118
465	Advances in the Application of Magnetic Nanoparticles for Sensing. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904385	14.5	114
464	Influence of Surface Topography on Alkanethiol SAMs Assembled from Solution and by Microcontact Printing. <i>Langmuir</i> , <b>2001</b> , 17, 3307-3316	4	112
463	Using an electrical potential to reversibly switch surfaces between two states for dynamically controlling cell adhesion. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 7706-10	16.4	110
462	Peptide-modified optical filters for detecting protease activity. <i>ACS Nano</i> , <b>2007</b> , 1, 355-61	16.7	107

461	Electronic detection of target nucleic acids by a 2,6-disulfonic acid anthraquinone intercalator. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3845-52	7.8	106
460	Flame oxidation of stainless steel felt enhances anodic biofilm formation and current output in bioelectrochemical systems. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 7151-6	10.3	105
459	Exploring the use of the tripeptide Gly-Gly-his as a selective recognition element for the fabrication of electrochemical copper sensors. <i>Analyst, The</i> , <b>2003</b> , 128, 712-8	5	105
458	Silicon (100) electrodes resistant to oxidation in aqueous solutions: an unexpected benefit of surface acetylene moieties. <i>Langmuir</i> , <b>2009</b> , 25, 2530-9	4	104
457	The effects of the lengths and orientations of single-walled carbon nanotubes on the electrochemistry of nanotube-modified electrodes. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 1677-1683	5.1	103
456	Click chemistry in mesoporous materials: functionalization of porous silicon rugate filters. <i>Langmuir</i> , <b>2008</b> , 24, 5888-92	4	102
455	A molecular wire modified glassy carbon electrode for achieving direct electron transfer to native glucose oxidase. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 2218-2223	5.1	101
454	Cellobiose dehydrogenase aryl diazonium modified single walled carbon nanotubes: enhanced direct electron transfer through a positively charged surface. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 3042-9	7.8	97
453	Peptide Modified Electrodes as Electrochemical Metal Ion Sensors. <i>Electroanalysis</i> , <b>2006</b> , 18, 1437-1448	3	96
452	Phenazine virulence factor binding to extracellular DNA is important for <i>Pseudomonas aeruginosa</i> biofilm formation. <i>Scientific Reports</i> , <b>2015</b> , 5, 8398	4.9	95
451	Porous silicon based narrow line-width rugate filters. <i>Optical Materials</i> , <b>2007</b> , 29, 619-622	3.3	94
450	Dual Bioresponsive Mesoporous Silica Nanocarrier as an AND Logic Gate for Targeted Drug Delivery Cancer Cells. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6999-7006	15.6	93
449	Nanoscale condensation of water on self-assembled monolayers. <i>Soft Matter</i> , <b>2011</b> , 7, 5309	3.6	90
448	Electrochemical detection of hybridization using peptide nucleic acids and methylene blue on self-assembled alkanethiol monolayer modified gold electrodes. <i>Electrochemistry Communications</i> , <b>2002</b> , 4, 796-802	5.1	90
447	Fast Colorimetric Detection of Copper Ions Using L-Cysteine Functionalized Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 712-716	1.3	88
446	Detection of trace nitroaromatic isomers using indium tin oxide electrodes modified using $\beta$ -cyclodextrin and silver nanoparticles. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8557-63	7.8	87
445	Ultrasensitive electrochemical detection of prostate-specific antigen (PSA) using gold-coated magnetic nanoparticles as 'dispersible electrodes'. <i>Chemical Communications</i> , <b>2012</b> , 48, 3503-5	5.8	85
444	Electrodeposited polytyramine as an immobilisation matrix for enzyme biosensors. <i>Biosensors and Bioelectronics</i> , <b>1998</b> , 13, 953-62	11.8	84

443	Controlled fabrication of polyethylenimine-functionalized magnetic nanoparticles for the sequestration and quantification of free Cu <sup>2+</sup> . <i>Langmuir</i> , <b>2010</b> , 26, 12247-52	4	83
442	Smart tissue culture: in situ monitoring of the activity of protease enzymes secreted from live cells using nanostructured photonic crystals. <i>Nano Letters</i> , <b>2009</b> , 9, 2021-5	11.5	83
441	Electroconductive Hydrogel Based on Functional Poly(Ethylenedioxy Thiophene). <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6080-6088	9.6	81
440	Light-Induced Hydrogel Based on Tumor-Targeting Mesoporous Silica Nanoparticles as a Theranostic Platform for Sustained Cancer Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 15857-63	9.5	80
439	The relative importance of topography and RGD ligand density for endothelial cell adhesion. <i>PLoS ONE</i> , <b>2011</b> , 6, e21869	3.7	80
438	A novel route to copper(II) detection using 'click' chemistry-induced aggregation of gold nanoparticles. <i>Analyst, The</i> , <b>2012</b> , 137, 82-6	5	79
437	Distance-dependent electron transfer at passivated electrodes decorated by gold nanoparticles. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 1073-80	7.8	78
436	Si-C linked oligo(ethylene glycol) layers in silicon-based photonic crystals: optimization for implantable optical materials. <i>Biomaterials</i> , <b>2007</b> , 28, 3055-62	15.6	78
435	Polymersomes prepared from thermoresponsive fluorescent protein-polymer bioconjugates: capture of and report on drug and protein payloads. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 5317-22	16.4	75
434	Stimuli-responsive functionalized mesoporous silica nanoparticles for drug release in response to various biological stimuli. <i>Biomaterials Science</i> , <b>2014</b> , 2, 121-130	7.4	75
433	Unclonable Plasmonic Security Labels Achieved by Shadow-Mask-Lithography-Assisted Self-Assembly. <i>Advanced Materials</i> , <b>2016</b> , 28, 2330-6	24	75
432	Multipotential electrochemical detection of primer extension reactions on DNA self-assembled monolayers. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 4120-1	16.4	74
431	Voltammetric detection of cadmium ions at glutathione-modified gold electrodes. <i>Analyst, The</i> , <b>2005</b> , 130, 831-7	5	73
430	Biodegradable 2D Fe-Al Hydroxide for Nanocatalytic Tumor-Dynamic Therapy with Tumor Specificity. <i>Advanced Science</i> , <b>2018</b> , 5, 1801155	13.6	73
429	Electrochemical and Theoretical Study of $\pi$ -Stacking Interactions between Graphitic Surfaces and Pyrene Derivatives. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 2650-2659	3.8	72
428	Heterogeneous Electron-Transfer Kinetics for Flavin Adenine Dinucleotide and Ferrocene through Alkanethiol Mixed Monolayers on Gold Electrodes. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 8460-8466 <sup>3,4</sup>	3.4	72
427	The electrochemical detection of cadmium using surface-immobilized DNA. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 845-849	5.1	71
426	A comparison of cationic and anionic intercalators for the electrochemical transduction of DNA hybridization via long range electron transfer. <i>Electrochemistry Communications</i> , <b>2004</b> , 6, 648-654	5.1	71

425	Kinetics of Irreversible Adsorption with Diffusion: Application to Biomolecule Immobilization. <i>Langmuir</i> , <b>2002</b> , 18, 1770-1776	4	71
424	High F-Content Perfluoropolyether-Based Nanoparticles for Targeted Detection of Breast Cancer by F Magnetic Resonance and Optical Imaging. <i>ACS Nano</i> , <b>2018</b> , 12, 9162-9176	16.7	70
423	Synthesis of low- and high-index faceted metal (Pt, Pd, Ru, Ir, Rh) nanoparticles for improved activity and stability in electrocatalysis. <i>Nanoscale</i> , <b>2019</b> , 11, 18995-19011	7.7	69
422	Approaches Toward Allowing Electroanalytical Devices to be Used in Biological Fluids. <i>Electroanalysis</i> , <b>2014</b> , 26, 1182-1196	3	69
421	A facile enantioseparation for amino acids enantiomers using $\beta$ -cyclodextrins functionalized Fe <sub>3</sub> O <sub>4</sub> nanospheres. <i>Chemical Communications</i> , <b>2011</b> , 47, 10317-9	5.8	69
420	A Comparative Study of the Modification of Gold and Glassy Carbon Surfaces with Mixed Layers of In Situ Generated Aryl Diazonium Compounds. <i>Electroanalysis</i> , <b>2010</b> , 22, 918-926	3	69
419	A sulfite biosensor fabricated using electrodeposited polytyramine: application to wine analysis. <i>Analyst, The</i> , <b>1999</b> , 124, 1775-1779	5	69
418	Nanopore blockade sensors for ultrasensitive detection of proteins in complex biological samples. <i>Nature Communications</i> , <b>2019</b> , 10, 2109	17.4	68
417	Core-Satellite Mesoporous Silica-Gold Nanotheranostics for Biological Stimuli Triggered Multimodal Cancer Therapy. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801961	15.6	68
416	Electrochemical detection of lead ions via the covalent attachment of human angiotensin I to mercaptopropionic acid and thiocetic acid self-assembled monolayers. <i>Analytica Chimica Acta</i> , <b>2005</b> , 543, 167-176	6.6	68
415	Parameters important in tuning the response of monolayer enzyme electrodes fabricated using self-assembled monolayers of alkanethiols. <i>Biosensors and Bioelectronics</i> , <b>2000</b> , 15, 229-39	11.8	68
414	Paper-Based Ratiometric Fluorescence Analytical Devices towards Point-of-Care Testing of Human Serum Albumin. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3131-3136	16.4	68
413	Direct Growth of Highly Strained Pt Islands on Branched Ni Nanoparticles for Improved Hydrogen Evolution Reaction Activity. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 16202-16207	16.4	67
412	Reversible gating of smart plasmonic molecular traps using thermoresponsive polymers for single-molecule detection. <i>Nature Communications</i> , <b>2015</b> , 6, 8797	17.4	67
411	Electrochemical impedance immunosensor based on gold nanoparticles and aryl diazonium salt functionalized gold electrodes for the detection of antibody. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 3660-5	11.8	67
410	Single-step DNA immobilization on antifouling self-assembled monolayers covalently bound to silicon (111). <i>Langmuir</i> , <b>2006</b> , 22, 3494-6	4	66
409	Cascade Reactions in Nanozymes: Spatially Separated Active Sites inside Ag-Core-Porous-Cu-Shell Nanoparticles for Multistep Carbon Dioxide Reduction to Higher Organic Molecules. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 14093-14097	16.4	65
408	Zwitterionic phenyl layers: finally, stable, anti-biofouling coatings that do not passivate electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 4827-35	9.5	65



407	Forming Antifouling Organic Multilayers on Porous Silicon Rugate Filters Towards In Vivo/Ex Vivo Biophotonic Devices. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 2884-2890	15.6	65
406	Formation of tetra(ethylene oxide) terminated Si-C linked monolayers and their derivatization with glycine: an example of a generic strategy for the immobilization of biomolecules on silicon. <i>Langmuir</i> , <b>2005</b> , 21, 10522-9	4	65
405	Demonstration of the advantages of using bamboo-like nanotubes for electrochemical biosensor applications compared with single walled carbon nanotubes. <i>Electrochemistry Communications</i> , <b>2005</b> , 7, 1457-1462	5.1	65
404	One-pot synthesis of colloidal silicon quantum dots and surface functionalization via thiol-ene click chemistry. <i>Chemical Communications</i> , <b>2012</b> , 48, 11874-6	5.8	64
403	Development of sensitive direct and indirect enzyme-linked immunosorbent assays (ELISAs) for monitoring bisphenol-A in canned foods and beverages. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 403, 1607-18	4.4	64
402	How important is the interfacial chemical bond for electron transport through alkyl chain monolayers?. <i>Nano Letters</i> , <b>2006</b> , 6, 2873-6	11.5	64
401	Redox voltammetry of sub-parts per billion levels of Cu <sup>2+</sup> at polyaspartate-modified gold electrodes. <i>Analyst, The</i> , <b>2001</b> , 126, 1573-1577	5	63
400	Importance of the indium tin oxide substrate on the quality of self-assembled monolayers formed from organophosphonic acids. <i>Langmuir</i> , <b>2011</b> , 27, 2545-52	4	62
399	Scanning electrochemical microscopy. 59. Effect of defects and structure on electron transfer through self-assembled monolayers. <i>Langmuir</i> , <b>2008</b> , 24, 2841-9	4	62
398	Electrochemical modulation of antigen-antibody binding. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 20, 260-8	11.8	62
397	Amperometric biosensor with enzyme amplification fabricated using self-assembled monolayers of alkanethiols: the influence of the spatial distribution of the enzymes. <i>Electrochemistry Communications</i> , <b>2000</b> , 2, 217-221	5.1	62
396	Connecting electrodes with light: one wire, many electrodes. <i>Chemical Science</i> , <b>2015</b> , 6, 6769-6776	9.4	61
395	Comparing the reactivity of alkynes and alkenes on silicon (100) surfaces. <i>Langmuir</i> , <b>2009</b> , 25, 13934-41	4	61
394	Optimization of Click Chemistry of Ferrocene Derivatives on Acetylene-Functionalized Silicon(100) Surfaces. <i>Electroanalysis</i> , <b>2008</b> , 20, 1513-1519	3	61
393	Parameters important in fabricating enzyme electrodes using self-assembled monolayers of alkanethiols. <i>Analytical Sciences</i> , <b>2001</b> , 17, 3-9	1.7	61
392	Immobilisation of enzyme throughout a polytyramine matrix: a versatile procedure for fabricating biosensors. <i>Analytica Chimica Acta</i> , <b>1999</b> , 394, 211-223	6.6	61
391	Single-molecule electrical contacts on silicon electrodes under ambient conditions. <i>Nature Communications</i> , <b>2017</b> , 8, 15056	17.4	60
390	Biocompatible gold nanorods: one-step surface functionalization, highly colloidal stability, and low cytotoxicity. <i>Langmuir</i> , <b>2015</b> , 31, 4973-80	4	60



389	CRISPR Mediated Biosensing Toward Understanding Cellular Biology and Point-of-Care Diagnosis. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20754-20766	16.4	60
388	Scanning Tunneling Microscopy Studies of Glucose Oxidase on Gold Surfaces. <i>Langmuir</i> , <b>2002</b> , 18, 5422-5428	14.2	60
387	Heat-treated stainless steel felt as scalable anode material for bioelectrochemical systems. <i>Bioresource Technology</i> , <b>2015</b> , 195, 46-50	11	59
386	The impact of nanoparticle shape on cellular internalisation and transport: what do the different analysis methods tell us?. <i>Materials Horizons</i> , <b>2019</b> , 6, 1538-1547	14.4	58
385	Single nanoparticle plasmonic sensors. <i>Sensors</i> , <b>2015</b> , 15, 25774-92	3.8	58
384	Cubic-Core Hexagonal-Branch Mechanism To Synthesize Bimetallic Branched and Faceted Pd-Ru Nanoparticles for Oxygen Evolution Reaction Electrocatalysis. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12760-12764	16.4	58
383	Three-Dimensional Branched and Faceted Gold-Ruthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 10241-10245	16.4	57
382	Modifying Porous Silicon with Self-Assembled Monolayers for Biomedical Applications: The Influence of Surface Coverage on Stability and Biomolecule Coupling. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3827-3833	15.6	57
381	Carbon-Quantum-Dots-Loaded Mesoporous Silica Nanocarriers with pH-Switchable Zwitterionic Surface and Enzyme-Responsive Pore-Cap for Targeted Imaging and Drug Delivery to Tumor. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1401-7	10.1	56
380	Introducing distinctly different chemical functionalities onto the internal and external surfaces of mesoporous materials. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2697-9	16.4	55
379	Single Molecular Switches: Electrochemical Gating of a Single Anthraquinone-Based Norbornylogous Bridge Molecule. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 21093-21097	3.8	53
378	Studies on the effect of solvents on self-assembled monolayers formed from organophosphonic acids on indium tin oxide. <i>Langmuir</i> , <b>2012</b> , 28, 9487-95	4	53
377	Spacing of integrin ligands influences signal transduction in endothelial cells. <i>Biophysical Journal</i> , <b>2011</b> , 101, 764-73	2.9	53
376	pH-Detachable Polymer Brushes Formed Using TitaniumDiol Coordination Chemistry and Living Radical Polymerization (RAFT). <i>Macromolecules</i> , <b>2009</b> , 42, 2931-2939	5.5	53
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