J Justin Gooding

List of Publications by Year
in descending order

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680	32,773	3731 89	6654 156
papers	citations	h-index	g-index

704	704	704	33640
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbon Nanomaterials in Biosensors: Should You Use Nanotubes or Graphene?. Angewandte Chemie - International Edition, 2010, 49, 2114-2138.	13.8	1,301
2	Nanostructuring electrodes with carbon nanotubes: A review on electrochemistry and applications for sensing. Electrochimica Acta, 2005, 50, 3049-3060.	5.2	1,003
3	Protein Electrochemistry Using Aligned Carbon Nanotube Arrays. Journal of the American Chemical Society, 2003, 125, 9006-9007.	13.7	853
4	Review of Carbon and Graphene Quantum Dots for Sensing. ACS Sensors, 2019, 4, 1732-1748.	7.8	660
5	Self-Assembled Monolayers into the 21st Century: Recent Advances and Applications. Electroanalysis, 2003, 15, 81-96.	2.9	547
6	Recent Advances in Paper-Based Sensors. Sensors, 2012, 12, 11505-11526.	3.8	545
7	Carbon nanotubes for biological and biomedical applications. Nanotechnology, 2007, 18, 412001.	2.6	522
8	Strategies for chemical modification of graphene and applications of chemically modified graphene. Journal of Materials Chemistry, 2012, 22, 12435.	6.7	468
9	Minimum information reporting in bioâ€“nano experimental literature. Nature Nanotechnology, 2018, 13, 777-785.	31.5	455
10	The molecular level modification of surfaces: from self-assembled monolayers to complex molecular assemblies. Chemical Society Reviews, 2011, 40, 2704.	38.1	433
11	Colloidal silicon quantum dots: from preparation to the modification of self-assembled monolayers (SAMs) for bio-applications. Chemical Society Reviews, 2014, 43, 2680-2700.	38.1	360
12	Achieving Direct Electrical Connection to Glucose Oxidase Using Aligned Single Walled Carbon Nanotube Arrays. Electroanalysis, 2005, 17, 38-46.	2.9	302
13	Pre-existing clusters of the adaptor Lat do not participate in early T cell signaling events. Nature Immunology, 2011, 12, 655-662.	14.5	302
14	Pair correlation microscopy reveals the role of nanoparticle shape in intracellular transport and site of drug release. Nature Nanotechnology, 2017, 12, 81-89.	31.5	295
15	Effects of Surface Charge and Hydrophobicity on Anodic Biofilm Formation, Community Composition, and Current Generation in Bioelectrochemical Systems. Environmental Science & Technology, 2013, 47, 7563-7570.	10.0	294
16	Brief review of monitoring methods for loop-mediated isothermal amplification (LAMP). Biosensors and Bioelectronics, 2014, 61, 491-499.	10.1	287
17	Electrochemical approach of anticancer drugsâ€“DNA interaction. Journal of Pharmaceutical and Biomedical Analysis, 2005, 37, 205-217.	2.8	286
18	Wet chemical routes to the assembly of organic monolayers on silicon surfaces via the formation of Siâ€“C bonds: surface preparation, passivation and functionalization. Chemical Society Reviews, 2010, 39, 2158.	38.1	276

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19	Functionalization of Acetylene-Terminated Monolayers on Si(100) Surfaces:â€‰ A Click Chemistry Approach. Langmuir, 2007, 23, 9320-9329.	3.5	267
20	Characterisation of gold electrodes modified with self-assembled monolayers of l-cysteine for the adsorptive stripping analysis of copper. Journal of Electroanalytical Chemistry, 2001, 516, 10-16.	3.8	256
21	Graphene and Related Materials in Electrochemical Sensing. Electroanalysis, 2011, 23, 803-826.	2.9	256
22	Fabrication and Dispersion of Gold-Shell-Protected Magnetite Nanoparticles: Systematic Control Using Polyethyleneimine. Chemistry of Materials, 2009, 21, 673-681.	6.7	253
23	Platinum-Catalyzed Enzyme Electrodes Immobilized on Gold Using Self-Assembled Layers. Analytical Chemistry, 1998, 70, 2396-2402.	6.5	248
24	Nucleic acid hybridization on an electrically reconfigurable network of gold-coated magnetic nanoparticles enables microRNA detection in blood. Nature Nanotechnology, 2018, 13, 1066-1071.	31.5	244
25	Advances in Interfacial Design for Electrochemical Biosensors and Sensors: Aryl Diazonium Salts for Modifying Carbon and Metal Electrodes. Electroanalysis, 2008, 20, 573-582.	2.9	240
26	An introduction to electrochemical DNA biosensors. Analyst, The, 2007, 132, 603.	3.5	238
27	Advances in the Application of Magnetic Nanoparticles for Sensing. Advanced Materials, 2019, 31, e1904385.	21.0	234
28	Singleâ€Molecule Sensors: Challenges and Opportunities for Quantitative Analysis. Angewandte Chemie - International Edition, 2016, 55, 11354-11366.	13.8	233
29	Voltammetric determination of DNA hybridization using methylene blue and self-assembled alkanethiol monolayer on gold electrodes. Analytica Chimica Acta, 2002, 462, 39-47.	5.4	230
30	The application of alkanethiol self-assembled monolayers to enzyme electrodes. TrAC - Trends in Analytical Chemistry, 1999, 18, 525-533.	11.4	228
31	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. Analyst, The, 2016, 141, 2657-2664.	3.5	226
32	Demonstration of the importance of oxygenated species at the ends of carbon nanotubes for their favourable electrochemical properties. Chemical Communications, 2005, , 842-844.	4.1	221
33	Challenges and Solutions in Developing Ultrasensitive Biosensors. Journal of the American Chemical Society, 2019, 141, 1162-1170.	13.7	200
34	Functional role of T-cell receptor nanoclusters in signal initiation and antigen discrimination. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5454-63.	7.1	194
35	Gold coated magnetic nanoparticles: from preparation to surface modification for analytical and biomedical applications. Chemical Communications, 2016, 52, 7528-7540.	4.1	188
36	Diazonium salts: Stable monolayers on gold electrodes for sensing applications. Journal of Electroanalytical Chemistry, 2007, 600, 335-344.	3.8	185

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37	Biosensor technology for detecting biological warfare agents: Recent progress and future trends. Analytica Chimica Acta, 2006, 559, 137-151.	5.4	177
38	A conducting polymer with enhanced electronic stability applied in cardiac models. Science Advances, 2016, 2, e1601007.	10.3	173
39	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. Chemical Physics, 2005, 319, 136-146.	1.9	165
40	Charge Transfer through DNA: A Selective Electrochemical DNA Biosensor. Analytical Chemistry, 2006, 78, 2138-2144.	6.5	165
41	Proximity extension of circular DNA aptamers with real-time protein detection. Nucleic Acids Research, 2005, 33, e64-e64.	14.5	164
42	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.	22.5	161
43	Sub-ppt detection limits for copper ions with Gly-Gly-His modified electrodes. Chemical Communications, 2001, , 1982-1983.	4.1	157
44	The importance of surface chemistry in mesoporous materials: lessons from porous silicon biosensors. Chemical Communications, 2009, , 630-640.	4.1	157
45	DNA Recognition Interfaces:Â The Influence of Interfacial Design on the Efficiency and Kinetics of Hybridization. Langmuir, 2005, 21, 6957-6965.	3.5	153
46	Phenazine virulence factor binding to extracellular DNA is important for Pseudomonas aeruginosa biofilm formation. Scientific Reports, 2015, 5, 8398.	3.3	152
47	The Fabrication of Stable Gold Nanoparticle-Modified Interfaces for Electrochemistry. Langmuir, 2011, 27, 4176-4183.	3.5	150
48	Observation of Electrochemically Controlled Quantum Interference in a Single Anthraquinoneâ€Based Norbornylogous Bridge Molecule. Angewandte Chemie - International Edition, 2012, 51, 3203-3206.	13.8	150
49	An Interface Comprising Molecular Wires and Poly(ethylene glycol) Spacer Units Self-Assembled on Carbon Electrodes for Studies of Protein Electrochemistry. Langmuir, 2006, 22, 7421-7430.	3.5	148
50	Paperâ€Based Ratiometric Fluorescence Analytical Devices towards Pointâ€ofâ€Care Testing of Human Serum Albumin. Angewandte Chemie - International Edition, 2020, 59, 3131-3136.	13.8	146
51	Formation of Efficient Electron Transfer Pathways by Adsorbing Gold Nanoparticles to Self-Assembled Monolayer Modified Electrodes. Langmuir, 2009, 25, 11121-11128.	3.5	145
52	Cascade Reactions in Nanozymes: Spatially Separated Active Sites inside Ag-Coreâ€“Porous-Cu-Shell Nanoparticles for Multistep Carbon Dioxide Reduction to Higher Organic Molecules. Journal of the American Chemical Society, 2019, 141, 14093-14097.	13.7	139
53	CRISPR Mediated Biosensing Toward Understanding Cellular Biology and Pointâ€ofâ€Care Diagnosis. Angewandte Chemie - International Edition, 2020, 59, 20754-20766.	13.8	138
54	Importance of Monolayer Quality for Interpreting Current Transport through Organic Molecules:Â Alkyls on Oxide-Free Si. Langmuir, 2006, 22, 6915-6922.	3.5	136

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55	Functionalization Strategies for Protease Immobilization on Magnetic Nanoparticles. Advanced Functional Materials, 2010, 20, 1767-1777.	14.9	133
56	A single-Pt-atom-on-Ru-nanoparticle electrocatalyst for CO-resilient methanol oxidation. Nature Catalysis, 2022, 5, 231-237.	34.4	133
57	Flame Oxidation of Stainless Steel Felt Enhances Anodic Biofilm Formation and Current Output in Bioelectrochemical Systems. Environmental Science & Technology, 2014, 48, 7151-7156.	10.0	131
58	Exploring the use of the tripeptide Glyâ€“Glyâ€“His as a selective recognition element for the fabrication of electrochemical copper sensors. Analyst, The, 2003, 128, 712-718.	3.5	127
59	Silicon (100) Electrodes Resistant to Oxidation in Aqueous Solutions: An Unexpected Benefit of Surface Acetylene Moieties. Langmuir, 2009, 25, 2530-2539.	3.5	122
60	Influence of Surface Topography on Alkanethiol SAMs Assembled from Solution and by Microcontact Printing. Langmuir, 2001, 17, 3307-3316.	3.5	119
61	Using an Electrical Potential to Reversibly Switch Surfaces between Two States for Dynamically Controlling Cell Adhesion. Angewandte Chemie - International Edition, 2012, 51, 7706-7710.	13.8	117
62	Cellobiose Dehydrogenase Aryl Diazonium Modified Single Walled Carbon Nanotubes: Enhanced Direct Electron Transfer through a Positively Charged Surface. Analytical Chemistry, 2011, 83, 3042-3049.	6.5	116
63	Peptide-Modified Optical Filters for Detecting Protease Activity. ACS Nano, 2007, 1, 355-361.	14.6	114
64	Nanopore blockade sensors for ultrasensitive detection of proteins in complex biological samples. Nature Communications, 2019, 10, 2109.	12.8	114
65	Peptide Modified Electrodes as Electrochemical Metal Ion Sensors. Electroanalysis, 2006, 18, 1437-1448.	2.9	113
66	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.	13.7	113
67	Paperâ€Based Ratiometric Fluorescence Analytical Devices towards Pointâ€ofâ€Care Testing of Human Serum Albumin. Angewandte Chemie, 2020, 132, 3155-3160.	2.0	112
68	Electronic Detection of Target Nucleic Acids by a 2,6-Disulfonic Acid Anthraquinone Intercalator. Analytical Chemistry, 2003, 75, 3845-3852.	6.5	111
69	A molecular wire modified glassy carbon electrode for achieving direct electron transfer to native glucose oxidase. Electrochemistry Communications, 2007, 9, 2218-2223.	4.7	110
70	Unclonable Plasmonic Security Labels Achieved by Shadowâ€Maskâ€Lithographyâ€Assisted Selfâ€Assembly. Advanced Materials, 2016, 28, 2330-2336.	21.0	110
71	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.	5.6	110
72	The effects of the lengths and orientations of single-walled carbon nanotubes on the electrochemistry of nanotube-modified electrodes. Electrochemistry Communications, 2007, 9, 1677-1683.	4.7	109

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73	Porous silicon based narrow line-width rugate filters. Optical Materials, 2007, 29, 619-622.	3.6	108
74	Click Chemistry in Mesoporous Materials: Functionalization of Porous Silicon Rugate Filters. Langmuir, 2008, 24, 5888-5892.	3.5	108
75	Injectable hydrogel with MSNs/microRNA-21-5p delivery enables both immunomodification and enhanced angiogenesis for myocardial infarction therapy in pigs. Science Advances, 2021, 7, .	10.3	107
76	Dual Bioresponsive Mesoporous Silica Nanocarrier as an â€œANDâ€•Logic Gate for Targeted Drug Delivery Cancer Cells. Advanced Functional Materials, 2014, 24, 6999-7006.	14.9	105
77	Nanoscale condensation of water on self-assembled monolayers. Soft Matter, 2011, 7, 5309.	2.7	103
78	Approaches Toward Allowing Electroanalytical Devices to be Used in Biological Fluids. Electroanalysis, 2014, 26, 1182-1196.	2.9	100
79	Biodegradable 2D Feâ€“Al Hydroxide for Nanocatalytic Tumorâ€Đynamic Therapy with Tumor Specificity. Advanced Science, 2018, 5, 1801155.	11.2	100
80	High F-Content Perfluoropolyether-Based Nanoparticles for Targeted Detection of Breast Cancer by ¹⁹F Magnetic Resonance and Optical Imaging. ACS Nano, 2018, 12, 9162-9176.	14.6	98
81	Detection of Trace Nitroaromatic Isomers Using Indium Tin Oxide Electrodes Modified Using Î²-Cyclodextrin and Silver Nanoparticles. Analytical Chemistry, 2012, 84, 8557-8563.	6.5	97
82	The impact of nanoparticle shape on cellular internalisation and transport: what do the different analysis methods tell us?. Materials Horizons, 2019, 6, 1538-1547.	12.2	97
83	Ultrasensitive electrochemical detection of prostate-specific antigen (PSA) using gold-coated magnetic nanoparticles as â€˜dispersible electrodesâ€™. Chemical Communications, 2012, 48, 3503.	4.1	96
84	Electroconductive Hydrogel Based on Functional Poly(Ethylenedioxy Thiophene). Chemistry of Materials, 2016, 28, 6080-6088.	6.7	96
85	Electrodeposited polytyramine as an immobilisation matrix for enzyme biosensors. Biosensors and Bioelectronics, 1998, 13, 953-962.	10.1	94
86	Light-Induced Hydrogel Based on Tumor-Targeting Mesoporous Silica Nanoparticles as a Theranostic Platform for Sustained Cancer Treatment. ACS Applied Materials & Interfaces, 2016, 8, 15857-15863.	8.0	94
87	Electrochemical detection of hybridization using peptide nucleic acids and methylene blue on self-assembled alkanethiol monolayer modified gold electrodes. Electrochemistry Communications, 2002, 4, 796-802.	4.7	93
88	Polymersomes Prepared from Thermoresponsive Fluorescent Proteinâ€“Polymer Bioconjugates: Capture of and Report on Drug and Protein Payloads. Angewandte Chemie - International Edition, 2015, 54, 5317-5322.	13.8	93
89	Single-molecule electrical contacts on silicon electrodes under ambient conditions. Nature Communications, 2017, 8, 15056.	12.8	93
90	Fast Colorimetric Detection of Copper Ions Using L-Cysteine Functionalized Gold Nanoparticles. Journal of Nanoscience and Nanotechnology, 2007, 7, 712-716.	0.9	91

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91	Smart Tissue Culture: in Situ Monitoring of the Activity of Protease Enzymes Secreted from Live Cells Using Nanostructured Photonic Crystals. Nano Letters, 2009, 9, 2021-2025.	9.1	91
92	Distance-Dependent Electron Transfer at Passivated Electrodes Decorated by Gold Nanoparticles. Analytical Chemistry, 2013, 85, 1073-1080.	6.5	91
93	The Relative Importance of Topography and RGD Ligand Density for Endothelial Cell Adhesion. PLoS ONE, 2011, 6, e21869.	2.5	90
94	Electrochemical and Theoretical Study of Ï€â€“Ï€ Stacking Interactions between Graphitic Surfaces and Pyrene Derivatives. Journal of Physical Chemistry C, 2014, 118, 2650-2659.	3.1	89
95	Coreâ€“Satellite Mesoporous Silicaâ€“Gold Nanotheranostics for Biological Stimuli Triggered Multimodal Cancer Therapy. Advanced Functional Materials, 2018, 28, 1801961.	14.9	88
96	Voltammetric detection of cadmium ions at glutathione-modified gold electrodes. Analyst, The, 2005, 130, 831.	3.5	87
97	The electrochemical detection of cadmium using surface-immobilized DNA. Electrochemistry Communications, 2007, 9, 845-849.	4.7	87
98	Controlled Fabrication of Polyethylenimine-Functionalized Magnetic Nanoparticles for the Sequestration and Quantification of Free Cu²⁺. Langmuir, 2010, 26, 12247-12252.	3.5	87
99	Kinetics of Irreversible Adsorption with Diffusion:â€‰ Application to Biomolecule Immobilization. Langmuir, 2002, 18, 1770-1776.	3.5	86
100	A novel route to copper(<scp>ii</scp>) detection using â€˜clickâ€™ chemistry-induced aggregation of gold nanoparticles. Analyst, The, 2012, 137, 82-86.	3.5	85
101	Reversible gating of smart plasmonic molecular traps using thermoresponsive polymers for single-molecule detection. Nature Communications, 2015, 6, 8797.	12.8	83
102	Threeâ€Ðimensional Branched and Faceted Goldâ€“Ruthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. Angewandte Chemie - International Edition, 2018, 57, 10241-10245.	13.8	83
103	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for Highâ€Activity Electrocatalytic Oxidation of Biomass. Angewandte Chemie - International Edition, 2020, 59, 15487-15491.	13.8	83
104	Zwitterionic Phenyl Layers: Finally, Stable, Anti-Biofouling Coatings that Do Not Passivate Electrodes. ACS Applied Materials & Interfaces, 2013, 5, 4827-4835.	8.0	82
105	Cubic-Core Hexagonal-Branch Mechanism To Synthesize Bimetallic Branched and Faceted Pdâ€“Ru Nanoparticles for Oxygen Evolution Reaction Electrocatalysis. Journal of the American Chemical Society, 2018, 140, 12760-12764.	13.7	82
106	Parameters important in tuning the response of monolayer enzyme electrodes fabricated using self-assembled monolayers of alkanethiols. Biosensors and Bioelectronics, 2000, 15, 229-239.	10.1	81
107	Siâ€“C linked oligo(ethylene glycol) layers in silicon-based photonic crystals: Optimization for implantable optical materials. Biomaterials, 2007, 28, 3055-3062.	11.4	80
108	Stimuli-responsive functionalized mesoporous silica nanoparticles for drug release in response to various biological stimuli. Biomaterials Science, 2014, 2, 121-130.	5.4	80

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109	Unique Sensing Interface That Allows the Development of an Electrochemical Immunosensor for the Detection of Tumor Necrosis Factor Î± in Whole Blood. ACS Sensors, 2016, 1, 1432-1438.	7.8	80
110	A comparison of cationic and anionic intercalators for the electrochemical transduction of DNA hybridization via long range electron transfer. Electrochemistry Communications, 2004, 6, 648-654.	4.7	79
111	Multipotential Electrochemical Detection of Primer Extension Reactions on DNA Self-Assembled Monolayers. Journal of the American Chemical Society, 2004, 126, 4120-4121.	13.7	79
112	Recent Advances and a Roadmap to Wearable UV Sensor Technologies. Advanced Materials Technologies, 2020, 5, 1901036.	5.8	78
113	Biocompatible Gold Nanorods: One-Step Surface Functionalization, Highly Colloidal Stability, and Low Cytotoxicity. Langmuir, 2015, 31, 4973-4980.	3.5	77
114	A sulfite biosensor fabricated using electrodeposited polytyramine: application to wine analysis. Analyst, The, 1999, 124, 1775-1779.	3.5	76
115	Connecting electrodes with light: one wire, many electrodes. Chemical Science, 2015, 6, 6769-6776.	7.4	76
116	Electrochemical impedance immunosensor based on gold nanoparticles and aryl diazonium salt functionalized gold electrodes for the detection of antibody. Biosensors and Bioelectronics, 2011, 26, 3660-3665.	10.1	75
117	Redox voltammetry of sub-parts per billion levels of Cu2+ at polyaspartate-modified gold electrodes. Analyst, The, 2001, 126, 1573-1577.	3.5	74
118	Heterogeneous Electron-Transfer Kinetics for Flavin Adenine Dinucleotide and Ferrocene through Alkanethiol Mixed Monolayers on Gold Electrodes. Journal of Physical Chemistry B, 2004, 108, 8460-8466.	2.6	74
119	A facile enantioseparation for amino acids enantiomers using Î²-cyclodextrins functionalized Fe3O4 nanospheres. Chemical Communications, 2011, 47, 10317.	4.1	74
120	One-pot synthesis of colloidal silicon quantum dots and surface functionalization via thiolâ€“ene click chemistry. Chemical Communications, 2012, 48, 11874.	4.1	74
121	The Influence of Nanoconfinement on Electrocatalysis. Angewandte Chemie - International Edition, 2022, 61, .	13.8	74
122	Parameters Important in Fabricating Enzyme Electrodes Using Self-Assembled Monolayers of Alkanethiols.. Analytical Sciences, 2001, 17, 3-9.	1.6	73
123	Electrochemical detection of lead ions via the covalent attachment of human angiotensin I to mercaptopropionic acid and thioctic acid self-assembled monolayers. Analytica Chimica Acta, 2005, 543, 167-176.	5.4	73
124	Single-Step DNA Immobilization on Antifouling Self-Assembled Monolayers Covalently Bound to Silicon (111). Langmuir, 2006, 22, 3494-3496.	3.5	73
125	A Comparative Study of the Modification of Gold and Glassy Carbon Surfaces with Mixed Layers of In Situ Generated Aryl Diazonium Compounds. Electroanalysis, 2010, 22, 918-926.	2.9	73
126	Importance of the Indium Tin Oxide Substrate on the Quality of Self-Assembled Monolayers Formed from Organophosphonic Acids. Langmuir, 2011, 27, 2545-2552.	3.5	73

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127	Demonstration of the advantages of using bamboo-like nanotubes for electrochemical biosensor applications compared with single walled carbon nanotubes. Electrochemistry Communications, 2005, 7, 1457-1462.	4.7	72
128	Electrocatalytic Nanoparticles That Mimic the Three-Dimensional Geometric Architecture of Enzymes: Nanozymes. Journal of the American Chemical Society, 2018, 140, 13449-13455.	13.7	72
129	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.	10.3	72
130	Single Nanoparticle Plasmonic Sensors. Sensors, 2015, 15, 25774-25792.	3.8	71
131	Development of sensitive direct and indirect enzyme-linked immunosorbent assays (ELISAs) for monitoring bisphenol-A in canned foods and beverages. Analytical and Bioanalytical Chemistry, 2012, 403, 1607-1618.	3.7	70
132	Immobilisation of enzyme throughout a polytyramine matrix: a versatile procedure for fabricating biosensors. Analytica Chimica Acta, 1999, 394, 211-223.	5.4	69
133	Forming Antifouling Organic Multilayers on Porous Silicon Rugate Filters Towards In Vivo/Ex Vivo Biophotonic Devices. Advanced Functional Materials, 2007, 17, 2884-2890.	14.9	69
134	Heat-treated stainless steel felt as scalable anode material for bioelectrochemical systems. Bioresource Technology, 2015, 195, 46-50.	9.6	69
135	Electrochemical modulation of antigenâ€“antibody binding. Biosensors and Bioelectronics, 2004, 20, 260-268.	10.1	68
136	How Important Is the Interfacial Chemical Bond for Electron Transport through Alkyl Chain Monolayers?. Nano Letters, 2006, 6, 2873-2876.	9.1	68
137	Optimization of Click Chemistry of Ferrocene Derivatives on Acetyleneâ€Functionalized Silicon(100) Surfaces. Electroanalysis, 2008, 20, 1513-1519.	2.9	68
138	Carbonâ€Quantumâ€Dotsâ€Loaded Mesoporous Silica Nanocarriers with pHâ€Switchable Zwitterionic Surface and Enzymeâ€Responsive Poreâ€Cap for Targeted Imaging and Drug Delivery to Tumor. Advanced Healthcare Materials, 2016, 5, 1401-1407.	7.6	68
139	Reproducible flaws unveil electrostatic aspects of semiconductor electrochemistry. Nature Communications, 2017, 8, 2066.	12.8	68
140	A photoelectrochemical platform for the capture and release of rare single cells. Nature Communications, 2018, 9, 2288.	12.8	68
141	Amperometric biosensor with enzyme amplification fabricated using self-assembled monolayers of alkanethiols: the influence of the spatial distribution of the enzymes. Electrochemistry Communications, 2000, 2, 217-221.	4.7	67
142	Formation of Tetra(ethylene oxide) Terminated Siâ^'C Linked Monolayers and Their Derivatization with Glycine:Â An Example of a Generic Strategy for the Immobilization of Biomolecules on Silicon. Langmuir, 2005, 21, 10522-10529.	3.5	67
143	Single Molecular Switches: Electrochemical Gating of a Single Anthraquinone-Based Norbornylogous Bridge Molecule. Journal of Physical Chemistry C, 2012, 116, 21093-21097.	3.1	66
144	The application of personal glucose meters as universal point-of-care diagnostic tools. Biosensors and Bioelectronics, 2020, 148, 111835.	10.1	66

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145	Comparing the Reactivity of Alkynes and Alkenes on Silicon (100) Surfaces. Langmuir, 2009, 25, 13934-13941.	3.5	65
146	Scanning Electrochemical Microscopy. 59. Effect of Defects and Structure on Electron Transfer through Self-Assembled Monolayers. Langmuir, 2008, 24, 2841-2849.	3.5	64
147	Studies on the Effect of Solvents on Self-Assembled Monolayers Formed from Organophosphonic Acids on Indium Tin Oxide. Langmuir, 2012, 28, 9487-9495.	3.5	64
148	TEMPO Monolayers on Si(100) Electrodes: Electrostatic Effects by the Electrolyte and Semiconductor Space-Charge on the Electroactivity of a Persistent Radical. Journal of the American Chemical Society, 2016, 138, 9611-9619.	13.7	64
149	The rise of selfâ€assembled monolayers for fabricating electrochemical biosensorsâ€”an interfacial perspective. Chemical Record, 2012, 12, 92-105.	5.8	62
150	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.	9.4	62
151	Scanning Tunneling Microscopy Studies of Glucose Oxidase on Gold Surfaces. Langmuir, 2002, 18, 5422-5428.	3.5	61
152	Introducing Distinctly Different Chemical Functionalities onto the Internal and External Surfaces of Mesoporous Materials. Angewandte Chemie - International Edition, 2008, 47, 2697-2699.	13.8	61
153	Aryldiazonium salt derived mixed organic layers: From surface chemistry to their applications. Journal of Electroanalytical Chemistry, 2017, 785, 265-278.	3.8	61
154	Flexible fiber-shaped non-enzymatic sensors with a graphene-metal heterostructure based on graphene fibres decorated with gold nanosheets. Carbon, 2018, 136, 329-336.	10.3	61
155	Self-Assembled Carbon Nanotube Electrode Arrays: Effect of Length of the Linker between Nanotubes and Electrode. Journal of Physical Chemistry C, 2009, 113, 3203-3211.	3.1	60
156	Spacing of Integrin Ligands Influences Signal Transduction in Endothelial Cells. Biophysical Journal, 2011, 101, 764-773.	0.5	60
157	Paper-Based Sensor for Monitoring Sun Exposure. ACS Sensors, 2016, 1, 775-780.	7.8	60
158	Modifying Porous Silicon with Self-Assembled Monolayers for Biomedical Applications: The Influence of Surface Coverage on Stability and Biomolecule Coupling. Advanced Functional Materials, 2008, 18, 3827-3833.	14.9	59
159	Sintered gold nanoparticles as an electrode material for paper-based electrochemical sensors. RSC Advances, 2013, 3, 8683.	3.6	59
160	Analytical performance and characterization of MPA-Gly-Gly-His modified sensors. Sensors and Actuators B: Chemical, 2005, 111-112, 540-548.	7.8	58
161	Study of Factors Affecting the Performance of Voltammetric Copper Sensors Based on Gly-Gly-His Modified Glassy Carbon and Gold Electrodes. Electroanalysis, 2006, 18, 1141-1151.	2.9	57
162	pH-Detachable Polymer Brushes Formed Using Titaniumâ€'Diol Coordination Chemistry and Living Radical Polymerization (RAFT). Macromolecules, 2009, 42, 2931-2939.	4.8	57

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163	The importance of interfacial design for the sensitivity of a label-free electrochemical immuno-biosensor for small organic molecules. Biosensors and Bioelectronics, 2011, 26, 2038-2044.	10.1	57
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