Yi-Tao Long

List of Publications by Year
in descending order

382 papers	17,888 citations	12322 69 h-index	22808 112 g-index
415 all docs	415 docs citations	415 times ranked	16675 citing authors

#	Article	IF	Citations
1	A graphene-based fluorescent nanoprobe for silver(i) ions detection by using graphene oxide and a silver-specific oligonucleotide. Chemical Communications, 2010, 46, 2596.	2.2	455
2	Recent developments and applications of screen-printed electrodes in environmental assaysâ€”A review. Analytica Chimica Acta, 2012, 734, 31-44.	2.6	434
3	Exploring a naturally tailored small molecule for stretchable, self-healing, and adhesive supramolecular polymers. Science Advances, 2018, 4, eaat8192.	4.7	422
4	Discrimination of oligonucleotides of different lengths with a wild-type aerolysin nanopore. Nature Nanotechnology, 2016, 11, 713-718.	15.6	333
5	Catalytic Gold Nanoparticles for Nanoplasmonic Detection of DNA Hybridization. Angewandte Chemie - International Edition, 2011, 50, 11994-11998.	7.2	306
6	Quantized plasmon quenching dips nanospectroscopy via plasmon resonance energy transfer. Nature Methods, 2007, 4, 1015-1017.	9.0	303
7	Efficient and stable dye-sensitized solar cells based on phenothiazine sensitizers with thiophene units. Journal of Materials Chemistry, 2010, 20, 1772.	6.7	294
8	New Diketopyrrolopyrrole (DPP) Dyes for Efficient Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 1343-1349.	1.5	272
9	Transport of Î±-Helical Peptides through Î±-Hemolysin and Aerolysin Pores. Biochemistry, 2006, 45, 9172-9179.	1.2	254
10	Recent progress in surface enhanced Raman spectroscopy for the detection of environmental pollutants. Mikrochimica Acta, 2014, 181, 23-43.	2.5	239
11	Nanoporeâ€Based Sequencing and Detection of Nucleic Acids. Angewandte Chemie - International Edition, 2013, 52, 13154-13161.	7.2	236
12	Asymmetric Nanopore Electrode-Based Amplification for Electron Transfer Imaging in Live Cells. Journal of the American Chemical Society, 2018, 140, 5385-5392.	6.6	209
13	New starburst sensitizer with carbazole antennas for efficient and stable dye-sensitized solar cells. Energy and Environmental Science, 2010, 3, 1736.	15.6	195
14	Batch fabrication of disposable screen printed SERS arrays. Lab on A Chip, 2012, 12, 876-881.	3.1	188
15	Efficient Passivation of Hybrid Perovskite Solar Cells Using Organic Dyes with ï£¿COOH Functional Group. Advanced Energy Materials, 2018, 8, 1800715.	10.2	187
16	Confined Nanopipette Sensing: From Single Molecules, Single Nanoparticles, to Single Cells. Angewandte Chemie - International Edition, 2019, 58, 3706-3714.	7.2	185
17	Structure of Peptides Investigated by Nanopore Analysis. Nano Letters, 2004, 4, 1273-1277.	4.5	180
18	Plasmon Resonance Scattering Spectroscopy at the Singleâ€Nanoparticle Level: Realâ€Time Monitoring of a Click Reaction. Angewandte Chemie - International Edition, 2013, 52, 6011-6014.	7.2	178

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19	Nanochannels of Covalent Organic Frameworks for Chiral Selective Transmembrane Transport of Amino Acids. Journal of the American Chemical Society, 2019, 141, 20187-20197.	6.6	175
20	Resonance scattering particles as biological nanosensors in vitro and in vivo. Chemical Society Reviews, 2012, 41, 632-642.	18.7	166
21	Electrochemical Sensing at a Confined Space. Analytical Chemistry, 2020, 92, 5621-5644.	3.2	158
22	Ultrasensitive Determination of Cysteine Based on the Photocurrent of Nafionâ€Functionalized CdSâ€“MV Quantum Dots on an ITO Electrode. Small, 2011, 7, 1624-1628.	5.2	156
23	Facile On-Site Detection of Substituted Aromatic Pollutants in Water Using Thin Layer Chromatography Combined with Surface-Enhanced Raman Spectroscopy. Environmental Science & Technology, 2011, 45, 4046-4052.	4.6	155
24	Rapid and sensitive in-situ detection of polar antibiotics in water using a disposable Agâ€“graphene sensor based on electrophoretic preconcentration and surface-enhanced Raman spectroscopy. Biosensors and Bioelectronics, 2013, 43, 94-100.	5.3	152
25	Bithiazole-bridged dyes for dye-sensitized solar cells with high open circuit voltage performance. Journal of Materials Chemistry, 2011, 21, 6054.	6.7	150
26	Single Gold Nanoparticles as Realâ€Time Optical Probes for the Detection of NADHâ€Dependent Intracellular Metabolic Enzymatic Pathways. Angewandte Chemie - International Edition, 2011, 50, 6789-6792.	7.2	144
27	Design of a gold nanoprobe for rapid and portable mercury detection with the naked eye. Chemical Communications, 2008, , 4885.	2.2	143
28	Nanopore Analysis of Î²-Amyloid Peptide Aggregation Transition Induced by Small Molecules. Analytical Chemistry, 2011, 83, 1746-1752.	3.2	140
29	Nanopore-Based Single-Biomolecule Interfaces: From Information to Knowledge. Journal of the American Chemical Society, 2019, 141, 15720-15729.	6.6	137
30	Biological Nanopores: Confined Spaces for Electrochemical Single-Molecule Analysis. Accounts of Chemical Research, 2018, 51, 331-341.	7.6	130
31	New diketo-pyrrolo-pyrrole (DPP) sensitizer containing a furan moiety for efficient and stable dye-sensitized solar cells. Dyes and Pigments, 2012, 92, 1384-1393.	2.0	127
32	Tracking motion trajectories of individual nanoparticles using time-resolved current traces. Chemical Science, 2017, 8, 1854-1861.	3.7	127
33	Surface-imprinted coreâ€“shell Au nanoparticles for selective detection of bisphenol A based on surface-enhanced Raman scattering. Analytica Chimica Acta, 2013, 777, 57-62.	2.6	126
34	Monitoring of Endogenous Hydrogen Sulfide in Living Cells Using Surfaceâ€Enhanced Raman Scattering. Angewandte Chemie - International Edition, 2015, 54, 12758-12761.	7.2	122
35	Peptide Electron Transfer: More Questions than Answers. Chemistry - A European Journal, 2005, 11, 5186-5194.	1.7	119
36	Disposable biosensor based on graphene oxide conjugated with tyrosinase assembled gold nanoparticles. Biosensors and Bioelectronics, 2011, 26, 3181-3186.	5.3	118

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37	Chrominance to Dimension: A Real-Time Method for Measuring the Size of Single Gold Nanoparticles. Analytical Chemistry, 2012, 84, 4284-4291.	3.2	116
38	Fluorogenic Probing of Specific Recognitions between Sugar Ligands and Glycoprotein Receptors on Cancer Cells by an Economic Graphene Nanocomposite. Advanced Materials, 2013, 25, 4097-4101.	11.1	113
39	Advanced electroanalytical chemistry at nanoelectrodes. Chemical Science, 2017, 8, 3338-3348.	3.7	110
40	Simultaneous Removal of Multiple Heavy Metal Ions from River Water Using Ultrafine Mesoporous Magnetite Nanoparticles. ACS Omega, 2019, 4, 7543-7549.	1.6	108
41	Redox-Mediated Indirect Fluorescence Immunoassay for the Detection of Disease Biomarkers Using Dopamine-Functionalized Quantum Dots. Analytical Chemistry, 2016, 88, 5131-5136.	3.2	107
42	Biological Nanopore Approach for Singleâ€Molecule Protein Sequencing. Angewandte Chemie - International Edition, 2021, 60, 14738-14749.	7.2	106
43	Portable Surface-Enhanced Raman Scattering Sensor for Rapid Detection of Aniline and Phenol Derivatives by On-Site Electrostatic Preconcentration. Analytical Chemistry, 2010, 82, 9299-9305.	3.2	105
44	Novel triazolyl bis-amino acid derivatives readily synthesized via click chemistry as potential corrosion inhibitors for mild steel in HCl. Corrosion Science, 2012, 57, 220-227.	3.0	105
45	Muscle-like Artificial Molecular Actuators for Nanoparticles. CheM, 2018, 4, 2670-2684.	5.8	99
46	Electrochemical Detection of Single-Nucleotide Mismatches:Â Application of M-DNA. Analytical Chemistry, 2004, 76, 4059-4065.	3.2	97
47	AC Impedance Spectroscopy of Native DNA and M-DNA. Biophysical Journal, 2003, 84, 3218-3225.	0.2	94
48	A Comparison of Electron-Transfer Rates of Ferrocenoyl-Linked DNA. Journal of the American Chemical Society, 2003, 125, 8724-8725.	6.6	93
49	Simultaneous determination of dihydroxybenzene isomers using disposable screen-printed electrode modified by multiwalled carbon nanotubes and gold nanoparticles. Analytical Methods, 2010, 2, 837.	1.3	93
50	Single molecule analysis by biological nanopore sensors. Analyst, The, 2014, 139, 3826-3835.	1.7	93
51	Accurate Data Process for Nanopore Analysis. Analytical Chemistry, 2015, 87, 907-913.	3.2	92
52	Highly Selective Detection of Carbon Monoxide in Living Cells by Palladacycle Carbonylation-Based Surface Enhanced Raman Spectroscopy Nanosensors. Analytical Chemistry, 2015, 87, 9696-9701.	3.2	92
53	Using a Multiâ€Shelled Hollow Metalâ€“Organic Framework as a Host to Switch the Guestâ€toâ€Host and Guestâ€toâ€Guest Interactions. Angewandte Chemie - International Edition, 2018, 57, 2110-2114.	7.2	91
54	Monitoring of an ATPâ€Binding Aptamer and its Conformational Changes Using an Î±â€Hemolysin Nanopore. Small, 2011, 7, 87-94.	5.2	90

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55	New Insights into Electrocatalysis Based on Plasmon Resonance for the Real-Time Monitoring of Catalytic Events on Single Gold Nanorods. Analytical Chemistry, 2014, 86, 5513-5518.	3.2	90
56	0Dâ€“2D Quantum Dot: Metal Dichalcogenide Nanocomposite Photocatalyst Achieves Efficient Hydrogen Generation. Advanced Materials, 2017, 29, 1605646.	11.1	89
57	Multiple depositions of Ag nanoparticles on chemically modified agarose films for surface-enhanced Raman spectroscopy. Nanoscale, 2012, 4, 137-142.	2.8	87
58	Wireless Bipolar Nanopore Electrode for Single Small Molecule Detection. Analytical Chemistry, 2017, 89, 7382-7387.	3.2	84
59	Quantifying Visible-Light-Induced Electron Transfer Properties of Single Dye-Sensitized ZnO Entity for Water Splitting. Journal of the American Chemical Society, 2018, 140, 5272-5279.	6.6	84
60	Stochastic Collision Nanoelectrochemistry: A Review of Recent Developments. ChemElectroChem, 2017, 4, 977-985.	1.7	83
61	Narrowing band gap of platinum acetylide dye-sensitized solar cell sensitizers with thiophene Ï€-bridges. Journal of Materials Chemistry, 2012, 22, 5382.	6.7	82
62	A 30 nm Nanopore Electrode: Facile Fabrication and Direct Insights into the Intrinsic Feature of Single Nanoparticle Collisions. Angewandte Chemie - International Edition, 2018, 57, 1011-1015.	7.2	82
63	Dâ€“Ï€â€“Mâ€“Ï€â€“A structured platinum acetylide sensitizer for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 10666.	6.7	80
64	Cyclic electroplating and stripping of silver on Au@SiO2 core/shell nanoparticles for sensitive and recyclable substrate of surface-enhanced Raman scattering. Journal of Materials Chemistry, 2010, 20, 3688.	6.7	79
65	Alcohol Dehydrogenase-Catalyzed Gold Nanoparticle Seed-Mediated Growth Allows Reliable Detection of Disease Biomarkers with the Naked Eye. Analytical Chemistry, 2015, 87, 5891-5896.	3.2	78
66	Simultaneous determination of cadmium(II), lead(II) and copper(II) by using a screen-printed electrode modified with mercury nano-droplets. Mikrochimica Acta, 2010, 169, 321-326.	2.5	76
67	An OFFâ€“ON fluorescent probe for Zn2+ based on a GFP-inspired imidazolone derivative attached to a 1,10-phenanthroline moiety. Chemical Communications, 2011, 47, 4361.	2.2	75
68	Epimeric Monosaccharideâ^'Quinone Hybrids on Gold Electrodes toward the Electrochemical Probing of Specific Carbohydrateâ^'Protein Recognitions. Journal of the American Chemical Society, 2011, 133, 3649-3657.	6.6	75
69	Identification of diverse 1,2,3-triazole-connected benzyl glycoside-serine/threonine conjugates as potent corrosion inhibitors for mild steel in HCl. Corrosion Science, 2012, 64, 64-73.	3.0	75
70	Direct sensing of cancer biomarkers in clinical samples with a designed nanopore. Chemical Communications, 2017, 53, 11564-11567.	2.2	72
71	Modulation of energy levels by donor groups: an effective approach for optimizing the efficiency of zinc-porphyrin based solar cells. Journal of Materials Chemistry, 2012, 22, 7434.	6.7	70
72	A bis-boronic acid modified electrode for the sensitive and selective determination of glucose concentrations. Analyst, The, 2013, 138, 7146.	1.7	70

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73	Analysis of a Single Î±-Synuclein Fibrillation by the Interaction with a Protein Nanopore. Analytical Chemistry, 2013, 85, 8254-8261.	3.2	67
74	Exploring dynamic interactions of single nanoparticles at interfaces for surface-confined electrochemical behavior and size measurement. Nature Communications, 2020, 11, 2307.	5.8	67
75	Quinone/hydroquinone-functionalized biointerfaces for biological applications from the macro- to nano-scale. Chemical Society Reviews, 2014, 43, 30-41.	18.7	66
76	Reversible Redox of NADH and NAD+at a Hybrid Lipid Bilayer Membrane Using Ubiquinone. Journal of the American Chemical Society, 2011, 133, 12366-12369.	6.6	64
77	Superior Catalytic Activity of Electrochemically Reduced Graphene Oxide Supported Iron Phthalocyanines toward Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2015, 7, 24063-24068.	4.0	64
78	A single biomolecule interface for advancing the sensitivity, selectivity and accuracy of sensors. National Science Review, 2018, 5, 450-452.	4.6	64
79	Unveiling the Intrinsic Catalytic Activities of Singleâ€Goldâ€Nanoparticleâ€Based Enzyme Mimetics. Angewandte Chemie - International Edition, 2019, 58, 6327-6332.	7.2	64
80	Single Nanoparticle Electrochemistry. Annual Review of Analytical Chemistry, 2019, 12, 347-370.	2.8	63
81	Identification of Essential Sensitive Regions of the Aerolysin Nanopore for Single Oligonucleotide Analysis. Analytical Chemistry, 2018, 90, 7790-7794.	3.2	61
82	Single plasmonic nanoparticles as ultrasensitive sensors. Analyst, The, 2017, 142, 409-420.	1.7	60
83	Mapping the sensing spots of aerolysin for single oligonucleotides analysis. Nature Communications, 2018, 9, 2823.	5.8	60
84	Single molecule sensing of amyloid-Î² aggregation by confined glass nanopores. Chemical Science, 2019, 10, 10728-10732.	3.7	60
85	Humic acids-based one-step fabrication of SERS substrates for detection of polycyclic aromatic hydrocarbons. Analyst, The, 2013, 138, 1523.	1.7	58
86	A Stimuli-Responsive Nanopore Based on a Photoresponsive Host-Guest System. Scientific Reports, 2013, 3, 1662.	1.6	58
87	Investigating electron-transfer processes using a biomimetic hybrid bilayer membrane system. Nature Protocols, 2013, 8, 439-450.	5.5	57
88	Single-molecule analysis in an electrochemical confined space. Science China Chemistry, 2017, 60, 1187-1190.	4.2	56
89	Ubiquinone-quantum dot bioconjugates for in vitro and intracellular complex I sensing. Scientific Reports, 2013, 3, 1537.	1.6	55
90	Single molecule analysis of light-regulated RNA:spiropyran interactions. Chemical Science, 2014, 5, 2642.	3.7	55

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91	Rationally Designed Sensing Selectivity and Sensitivity of an Aerolysin Nanopore via Site-Directed Mutagenesis. ACS Sensors, 2018, 3, 779-783.	4.0	55
92	Detection of Peptides with Different Charges and Lengths by Using the Aerolysin Nanopore. ChemElectroChem, 2019, 6, 126-129.	1.7	55
93	Electrochemical Investigations of M-DNA Self-Assembled Monolayers on Gold Electrodes. Journal of Physical Chemistry B, 2003, 107, 2291-2296.	1.2	54
94	CdSe/ZnS quantum dotâ€“Cytochrome c bioconjugates for selective intracellular O2Ë™â^' sensing. Chemical Communications, 2011, 47, 8539.	2.2	54
95	Singleâ€Nanoparticle Photoelectrochemistry at a Nanoparticulate TiO₂â€Filmed Ultramicroelectrode. Angewandte Chemie - International Edition, 2018, 57, 3758-3762.	7.2	54
96	Selective and Sensitive Detection of Methylcytosine by Aerolysin Nanopore under Serum Condition. Analytical Chemistry, 2017, 89, 11685-11689.	3.2	52
97	Single antibodyâ€“antigen interactions monitored via transient ionic current recording using nanopore sensors. Chemical Communications, 2017, 53, 8620-8623.	2.2	52
98	Glucose selective Surface Plasmon Resonance-based bis-boronic acid sensor. Analyst, The, 2013, 138, 7140.	1.7	51
99	Driven Translocation of Polynucleotides Through an Aerolysin Nanopore. Analytical Chemistry, 2016, 88, 5046-5049.	3.2	51
100	Label-Free Monitoring of Single Molecule Immunoreaction with a Nanopipette. Analytical Chemistry, 2017, 89, 8203-8206.	3.2	51
101	Revisiting the Origin of Nanopore Current Blockage for Volume Difference Sensing at the Atomic Level. Jacs Au, 2021, 1, 967-976.	3.6	51
102	Nanoplasmonic detection of adenosine triphosphate by aptamer regulated self-catalytic growth of single gold nanoparticles. Chemical Communications, 2012, 48, 9574.	2.2	50
103	New Organic Donorâ€“Acceptorâ€“Ï€â€“Acceptor Sensitizers for Efficient Dyeâ€Sensitized Solar Cells and Photocatalytic Hydrogen Evolution under Visibleâ€Light Irradiation. ChemSusChem, 2014, 7, 2879-2888.	3.6	50
104	Facile Fabrication of a Silver Dendrite-Integrated Chip for Surface-Enhanced Raman Scattering. ACS Applied Materials & Interfaces, 2015, 7, 2931-2936.	4.0	50
105	Color-coded imaging of electrochromic process at single nanoparticle level. Chemical Science, 2016, 7, 5347-5351.	3.7	50
106	Binary System for MicroRNA-Targeted Imaging in Single Cells and Photothermal Cancer Therapy. Analytical Chemistry, 2016, 88, 8640-8647.	3.2	50
107	Construction of an aerolysin nanopore in a lipid bilayer for single-oligonucleotide analysis. Nature Protocols, 2017, 12, 1901-1911.	5.5	50
108	Electrodeposition of Singleâ€Metal Nanoparticles on Stable Proteinâ€...1 Membranes: Application of Plasmonic Sensing by Single Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 140-144.	7.2	49

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109	Electrochemical Confinement Effects for Innovating New Nanopore Sensing Mechanisms. Small Methods, 2018, 2, 1700390.	4.6	49
110	Manipulating and visualizing the dynamic aggregation-induced emission within a confined quartz nanopore. Nature Communications, 2018, 9, 3657.	5.8	49
111	Effect of chenodeoxycholic acid (CDCA) additive on phenothiazine dyes sensitized photovoltaic performance. Science China Chemistry, 2011, 54, 699-706.	4.2	48
112	SERS detection of polycyclic aromatic hydrocarbons using a bare gold nanoparticles coupled film system. Analyst, The, 2016, 141, 4359-4365.	1.7	48
113	A Scattering Nanopore for Single Nanoentity Sensing. ACS Sensors, 2016, 1, 1086-1090.	4.0	48
114	Wireless nanopore electrodes for analysis of single entities. Nature Protocols, 2019, 14, 2015-2035.	5.5	48
115	Enhanced translocation of poly(dt)45 through an Î±-hemolysin nanopore by binding with antibody. Chemical Communications, 2011, 47, 5690.	2.2	47
116	M-DNA: A Self-Assembling Molecular Wire for Nanoelectronics and Biosensing.. Analytical Sciences, 2003, 19, 23-26.	0.8	46
117	Expeditious preparation of triazole-linked glycolipids via microwave accelerated click chemistry and their electrochemical and biological assessments. Tetrahedron, 2010, 66, 9974-9980.	1.0	46
118	Cisplatin effects on evolution of reactive oxygen species from single human bladder cancer cells investigated by scanning electrochemical microscopy. Journal of Inorganic Biochemistry, 2012, 108, 115-122.	1.5	46
119	Metal-linked Immunosorbent Assay (MeLISA): the Enzyme-Free Alternative to ELISA for Biomarker Detection in Serum. Theranostics, 2016, 6, 1732-1739.	4.6	46
120	A Twoâ€Stage Dissociation System for Multilayer Imaging of Cancer Biomarkerâ€Synergic Networks in Single Cells. Angewandte Chemie - International Edition, 2017, 56, 4802-4805.	7.2	46
121	Real-time monitoring of the aging of single plasmonic copper nanoparticles. Chemical Communications, 2012, 48, 1511-1513.	2.2	45
122	Sensitive detection of protein biomarkers using silver nanoparticles enhanced immunofluorescence assay. Theranostics, 2017, 7, 876-883.	4.6	45
123	Low temperature synthesis and SERS application of silver molybdenum oxides. Journal of Materials Chemistry A, 2013, 1, 2558.	5.2	43
124	Electrocatalytic Efficiency Analysis of Catechol Molecules for NADH Oxidation during Nanoparticle Collision. Analytical Chemistry, 2016, 88, 8375-8379.	3.2	42
125	Real-Time Plasmonic Monitoring of Single Gold Amalgam Nanoalloy Electrochemical Formation and Stripping. ACS Applied Materials & Interfaces, 2016, 8, 8305-8314.	4.0	42
126	Capturing intercellular sugar-mediated ligand-receptor recognitions via a simple yet highly biospecific interfacial system. Scientific Reports, 2013, 3, 2293.	1.6	41

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127	Colorimetric and Plasmonic Detection of Lectins Using Coreâ€“Shell Gold Glyconanoparticles Prepared by Copper-Free Click Chemistry. ACS Applied Materials & Interfaces, 2015, 7, 1874-1878.	4.0	41
128	Characterization of DNA duplex unzipping through a sub-2 nm solid-state nanopore. Chemical Communications, 2017, 53, 3539-3542.	2.2	41
129	Investigation of Silver Nanoparticle Induced Lipids Changes on a Single Cell Surface by Time-of-Flight Secondary Ion Mass Spectrometry. Analytical Chemistry, 2018, 90, 1072-1076.	3.2	41
130	Efficient defect-controlled photocatalytic hydrogen generation based on near-infrared Cu-In-Zn-S quantum dots. Nano Research, 2018, 11, 1379-1388.	5.8	41
131	Localized Surface Plasmon Resonance Based Nanobiosensors. Springer Briefs in Molecular Science, 2014, , .	0.1	40
132	In situ High Throughput Scattering Light Analysis of Single Plasmonic Nanoparticles in Living Cells. Theranostics, 2015, 5, 188-195.	4.6	40
133	Dynamic tracking of pathogenic receptor expression of live cells using pyrenyl glycoanthraquinone-decorated graphene electrodes. Chemical Science, 2015, 6, 1996-2001.	3.7	40
134	Wearable Chemosensors: A Review of Recent Progress. ChemistryOpen, 2018, 7, 118-130.	0.9	40
135	T232K/K238Q Aerolysin Nanopore for Mapping Adjacent Phosphorylation Sites of a Single Tau Peptide. Small Methods, 2020, 4, 2000014.	4.6	40
136	Brightening Gold Nanoparticles: New Sensing Approach Based on Plasmon Resonance Energy Transfer. Scientific Reports, 2015, 5, 10142.	1.6	39
137	Direct Readout of Single Nucleobase Variations in an Oligonucleotide. Small, 2017, 13, 1702011.	5.2	39
138	Dualâ€Targeting Nanovesicles for Inâ€…Situ Intracellular Imaging of and Discrimination between Wildâ€type and Mutant p53. Angewandte Chemie - International Edition, 2016, 55, 719-723.	7.2	38
139	A Wild-Type Nanopore Sensor for Protein Kinase Activity. Analytical Chemistry, 2019, 91, 9910-9915.	3.2	38
140	Single-entity electrochemistry at confined sensing interfaces. Science China Chemistry, 2020, 63, 589-618.	4.2	38
141	Coenzymeâ€…Q Functionalized CdTe/ZnS Quantum Dots for Reactive Oxygen Species (ROS) Imaging. Chemistry - A European Journal, 2011, 17, 5262-5271.	1.7	37
142	Simultaneous determination of Hg(II) and Zn(II) using a GFP inspired chromophore. Talanta, 2012, 100, 401-404.	2.9	37
143	Recent advances in real-time and in situ analysis of an electrodeâ€“electrolyte interface by mass spectrometry. Analyst, The, 2017, 142, 691-699.	1.7	37
144	Biological Nanopore Approach for Singleâ€Molecule Protein Sequencing. Angewandte Chemie, 2021, 133, 14862-14873.	1.6	37

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145	Single-molecule DNA detection using a novel SP1 protein nanopore. Chemical Communications, 2013, 49, 1741.	2.2	36
146	Single Ag Nanoparticle Electro-oxidation: Potential-Dependent Current Traces and Potential-Independent Electron Transfer Kinetic. Journal of Physical Chemistry Letters, 2018, 9, 1429-1433.	2.1	36
147	Snapshotting the transient conformations and tracing the multiple pathways of single peptide folding using a solid-state nanopore. Chemical Science, 2021, 12, 3282-3289.	3.7	36
148	Target-Specific Imaging of Transmembrane Receptors Using Quinonyl Glycosides Functionalized Quantum Dots. Analytical Chemistry, 2014, 86, 5502-5507.	3.2	35
149	Simultaneous single-molecule discrimination of cysteine and homocysteine with a protein nanopore. Chemical Communications, 2019, 55, 9311-9314.	2.2	35
150	A lithium-ion-active aerolysin nanopore for effectively trapping long single-stranded DNA. Chemical Science, 2019, 10, 354-358.	3.7	35
151	Detection of Single Proteins with a General Nanopore Sensor. ACS Sensors, 2019, 4, 1185-1189.	4.0	35
152	Understanding the Selectivity of a Multichannel Fluorescent Probe for Peroxynitrite Over Hypochlorite. Bioconjugate Chemistry, 2016, 27, 341-353.	1.8	34
153	Mussel-Inspired Polydopamine Functionalized Plasmonic Nanocomposites for Single-Particle Catalysis. ACS Applied Materials & Interfaces, 2017, 9, 3016-3023.	4.0	34
154	Secondary ion mass spectrometry: The application in the analysis of atmospheric particulate matter. Analytica Chimica Acta, 2017, 989, 1-14.	2.6	34
155	Real-Time and Accurate Identification of Single Oligonucleotide Photoisomers via an Aerolysin Nanopore. Analytical Chemistry, 2018, 90, 4268-4272.	3.2	34
156	Nanopore confinement for electrochemical sensing at the single-molecule level. Current Opinion in Electrochemistry, 2018, 7, 172-178.	2.5	34
157	High Sensitive On-Site Cadmium Sensor Based on AuNPs Amalgam Modified Screen-Printed Carbon Electrodes. IEEE Sensors Journal, 2010, 10, 1583-1588.	2.4	33
158	Evaluation of an immobilized artificial carbonic anhydrase model for CO2 sequestration. Chemical Science, 2011, 2, 1515.	3.7	33
159	A single gold nanorod as a plasmon resonance energy transfer based nanosensor for high-sensitivity Cu(ii) detection. Analyst, The, 2014, 139, 6435-6439.	1.7	33
160	Raman/fluorescence dual-sensing and imaging of intracellular pH distribution. Chemical Communications, 2015, 51, 17584-17587.	2.2	33
161	High-bandwidth nanopore data analysis by using a modified hidden Markov model. Nanoscale, 2017, 9, 3458-3465.	2.8	33
162	Intelligent identification of multi-level nanopore signatures for accurate detection of cancer biomarkers. Chemical Communications, 2017, 53, 10176-10179.	2.2	33

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163	A Time-Resolved Single-Molecular Train Based on Aerolysin Nanopore. CheM, 2018, 4, 1893-1901.	5.8	33
164	Monitoring Dopamine Quinone-Induced Dopaminergic Neurotoxicity Using Dopamine Functionalized Quantum Dots. ACS Applied Materials & Interfaces, 2015, 7, 14352-14358.	4.0	32
165	Measuring a frequency spectrum for single-molecule interactions with a confined nanopore. Faraday Discussions, 2018, 210, 87-99.	1.6	32
166	Electrochemical regeneration of coenzyme NADH on a histidine modified silver electrode. Journal of Electroanalytical Chemistry, 1997, 440, 239-242.	1.9	31
167	Dynamics of a Molecular Plug Docked onto a Solid-State Nanopore. Journal of Physical Chemistry Letters, 2018, 9, 4686-4694.	2.1	31
168	Proteinâ€“DNA interaction: impedance study of MutS binding to a DNA mismatch. Chemical Communications, 2004, , 574-575.	2.2	30
169	Concise Cu^I-Catalyzed Azideâ€“Alkyne 1,3-Dipolar Cycloaddition Reaction Ligation Remarkably Enhances the Corrosion Inhibitive Potency of Natural Amino Acids for Mild Steel in HCl. Industrial & Engineering Chemistry Research, 2012, 51, 7160-7169.	1.8	30
170	Dynamic Selfâ€Assembly of Homogenous Microcyclic Structures Controlled by a Silverâ€Coated Nanopore. Small, 2017, 13, 1700234.	5.2	30
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