Zhiqiang Gao

List of Publications by Citations

195 papers	12,055 citations	51 h-index	105 g-index
203 ext. papers	13,200 ext. citations	7.4 avg, IF	6.91 L-index

#	Paper	IF	Citations
195	Carbon quantum dots and their applications. *Chemical Society Reviews*, **2015**, 44, 362-81	58.5	2967
194	Progress in Exosome Isolation Techniques. *Theranostics*, **2017**, 7, 789-804	12.1	826
193	A miniature biofuel cell. *Journal of the American Chemical Society*, **2001**, 123, 8630-1	16.4	380
192	Silicon nanowire arrays for label-free detection of DNA. *Analytical Chemistry*, **2007**, 79, 3291-7	7.8	367
191	All-solid-state sodium-selective electrode based on a calixarene ionophore in a poly(vinyl chloride) membrane with a polypyrrole solid contact. *Analytical Chemistry*, **1992**, 64, 2496-2501	7.8	337
190	DNA sensing by silicon nanowire: charge layer distance dependence. *Nano Letters*, **2008**, 8, 1066-70	11.5	235
189	Enzyme Mimics: Advances and Applications. *Chemistry - A European Journal*, **2016**, 22, 8404-30	4.8	201
188	Nanoparticles in biomolecular detection. *Nano Today*, **2006**, 1, 28-37	17.9	198
187	Detection of MicroRNAs using target-guided formation of conducting polymer nanowires in nanogaps. *Journal of the American Chemical Society*, **2007**, 129, 5437-43	16.4	197
186	A highly sensitive and selective electrochemical biosensor for direct detection of microRNAs in serum. *Analytical Chemistry*, **2013**, 85, 4784-9	7.8	184
185	Detection of microRNAs using electrocatalytic nanoparticle tags. *Analytical Chemistry*, **2006**, 78, 1470-7	7.8	173
184	Corrosion Protection of Copper by a Self-Assembled Monolayer of Alkanethiol. *Journal of the Electrochemical Society*, **1997**, 144, 55-64	3.9	156
183	Strong Red-Emitting near-Infrared-to-Visible Upconversion Fluorescent Nanoparticles. *Chemistry of Materials*, **2011**, 23, 2729-2734	9.6	147
182	Nanostructure-based electrical biosensors. *Nano Today*, **2009**, 4, 318-334	17.9	143
181	A highly sensitive plasmonic DNA assay based on triangular silver nanoprism etching. *ACS Nano*, **2014**, 8, 4902-7	16.7	127
180	Gold nanoparticle-enabled real-time ligation chain reaction for ultrasensitive detection of DNA. *Journal of the American Chemical Society*, **2012**, 134, 14678-81	16.4	123
179	Metal–organic frameworks in fuel cell technologies. *Nano Today*, **2013**, 8, 577-597	17.9	122

178	Bioanalytical applications of isothermal nucleic acid amplification techniques. *Analytica Chimica Acta*, **2015**, 853, 30-45	6.6	109
177	Simultaneous determination of dopamine, uric acid and ascorbic acid at an ultrathin film modified gold electrode. *Chemical Communications*, **1998**, 2107-2108	5.8	108
176	A label-free biosensor for electrochemical detection of femtomolar microRNAs. *Analytical Chemistry*, **2013**, 85, 1624-30	7.8	107
175	Electrodeposition of redox polymers and co-electrodeposition of enzymes by coordinative crosslinking. *Angewandte Chemie - International Edition*, **2002**, 41, 810-3	16.4	106
174	Applications of metal-organic frameworks as stationary phases in chromatography. *TrAC - Trends in Analytical Chemistry*, **2013**, 50, 33-41	14.6	99
173	Amplified detection of microRNA based on ruthenium oxide nanoparticle-initiated deposition of an insulating film. *Analytical Chemistry*, **2011**, 83, 820-7	7.8	99
172	Mechanism of ionic and redox sensitivity of p-type conducting polymers. *Journal of Electroanalytical Chemistry*, **1994**, 368, 33-41	4.1	96
171	Facile and controllable loading of single-stranded DNA on gold nanoparticles. *Analytical Chemistry*, **2009**, 81, 8523-8	7.8	86
170	Electrochemical and spectroscopic studies of cobalt-hexacyanoferrate film modified electrodes. *Electrochimica Acta*, **1991**, 36, 147-152	6.7	81
169	Plasmonic nanoparticles in biomedicine. *Nano Today*, **2016**, 11, 168-188	17.9	79
168	Direct labeling microRNA with an electrocatalytic moiety and its application in ultrasensitive microRNA assays. *Biosensors and Bioelectronics*, **2007**, 22, 933-40	11.8	78
167	Amperometric detection of nucleic acid at femtomolar levels with a nucleic acid/electrochemical activator bilayer on gold electrode. *Analytical Chemistry*, **2004**, 76, 1611-7	7.8	78
166	A highly sensitive microRNA biosensor based on ruthenium oxide nanoparticle-initiated polymerization of aniline. *Chemical Communications*, **2010**, 46, 9131-3	5.8	74
165	Dithia-crown-annelated tetrathiafulvalene disulfides: synthesis, electrochemistry, self-assembled films, and metal ion recognition. *Journal of Organic Chemistry*, **2000**, 65, 3292-8	4.2	73
164	Ultrasensitive electrochemical DNA biosensors based on the detection of a highly characteristic solid-state process. *Small*, **2009**, 5, 1414-7	11	71
163	The influence of overoxidation treatment on the permeability of polypyrrole films. *Journal of Electroanalytical Chemistry*, **1994**, 373, 141-148	4.1	71
162	Determination of ascorbic acid in a mixture of ascorbic acid and uric acid at a chemically modified electrode. *Analytica Chimica Acta*, **1997**, 343, 49-57	6.6	69
161	A DNA biosensor based on the detection of doxorubicin-conjugated Ag nanoparticle labels using solid-state voltammetry. *Biosensors and Bioelectronics*, **2009**, 25, 282-7	11.8	68

160	Partially Reduced Holey Graphene Oxide as High Performance Anode for Sodium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803215	21.8	68
159	The hybridization chain reaction in the development of ultrasensitive nucleic acid assays. *TrAC - Trends in Analytical Chemistry*, **2015**, 64, 86-99	14.6	67
158	A microfluidic-assisted microarray for ultrasensitive detection of miRNA under an optical microscope. *Lab on A Chip*, **2011**, 11, 1886-94	7.2	61
157	Template-free formation of carbon nanotube-supported cobalt sulfide@carbon hollow nanoparticles for stable and fast sodium ion storage. *Journal of Power Sources*, **2017**, 339, 41-50	8.9	60
156	Detection of Nucleic Acids Using Enzyme-Catalyzed Template-Guided Deposition of Polyaniline. *Advanced Materials*, **2007**, 19, 602-606	24	60
155	Direct detection of DNA with an electrocatalytic threading intercalator. *Analytical Chemistry*, **2005**, 77, 126-34	7.8	60
154	Improving the Specific Capacity and Cyclability of Sodium-Ion Batteries by Engineering a Dual-Carbon Phase-Modified Amorphous and Mesoporous Iron Phosphide. *ChemElectroChem*, **2016**, 3, 1054-1062	4.3	60
153	A high performance polysiloxane-based single ion conducting polymeric electrolyte membrane for application in lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 20267-20276	13	58
152	Pt nanoparticle label-mediated deposition of Pt catalyst for ultrasensitive electrochemical immunosensors. *Biosensors and Bioelectronics*, **2010**, 26, 418-23	11.8	58
151	Electrochemical behaviour of dopamine and ascorbic acid at overoxidized polypyrrole(dodecyl sulphate) film-coated electrodes. *Analytica Chimica Acta*, **1993**, 284, 393-404	6.6	58
150	An interference-free glucose biosensor based on a novel low potential redox polymer mediator. *Sensors and Actuators B: Chemical*, **2014**, 191, 522-528	8.5	57
149	Enzyme-based colorimetric detection of nucleic acids using peptide nucleic acid-immobilized microwell plates. *Analytical Chemistry*, **2007**, 79, 7192-7	7.8	56
148	A highly sensitive and specific biosensor for ligation- and PCR-free detection of microRNAs. *Biosensors and Bioelectronics*, **2011**, 26, 3768-73	11.8	55
147	MoS2 nanosheets as an effective fluorescence quencher for DNA methyltransferase activity detection. *Analyst, The*, **2015**, 140, 3210-5	5	54
146	Synthesis and characterization of the hollandite-type MnO2 as a cathode material in lithium batteries. *Electrochimica Acta*, **2000**, 45, 2211-2217	6.7	54
145	A real-time colorimetric assay for label-free detection of microRNAs down to sub-femtomolar levels. *Chemical Communications*, **2013**, 49, 4959-61	5.8	51
144	Coordination of mercury(II) to gold nanoparticle associated nitrotriazole towards sensitive colorimetric detection of mercuric ion with a tunable dynamic range. *Analyst, The*, **2011**, 136, 1690-6	5	51
143	Low-Temperature Synthesized LiV3 O 8 as a Cathode Material for Rechargeable Lithum Batteries. *Journal of the Electrochemical Society*, **1998**, 145, 3057-3062	3.9	51

142	Enzyme-catalysed deposition of ultrathin silver shells on gold nanorods: a universal and highly efficient signal amplification strategy for translating immunoassay into a litmus-type test. *Chemical Communications*, **2015**, 51, 6928-31	5.8	50
141	Nanoparticulate peroxidase/catalase mimetic and its application. *Chemistry - A European Journal*, **2012**, 18, 8906-11	4.8	49
140	Electrical detection of oligonucleotide using an aggregate of gold nanoparticles as a conductive tag. *Analytical Chemistry*, **2008**, 80, 9387-94	7.8	48
139	Mechanism of the oxidation of organic dyes in the presence of nanoceria. *Chemical Communications* , **2011**, 47, 2916-8	5.8	47
138	Highly sensitive electrochemical methyltransferase activity assay. *Analytical Chemistry*, **2014**, 86, 2117-23	7.8	44
137	An ultrasensitive photoelectrochemical nucleic acid biosensor. *Nucleic Acids Research*, **2005**, 33, e123	20.1	44
136	Mass-produced nanogap sensor arrays for ultrasensitive detection of DNA. *Journal of the American Chemical Society*, **2009**, 131, 12211-7	16.4	42
135	Electrical detection of hybridization and threading intercalation of deoxyribonucleic acid using carbon nanotube network field-effect transistors. *Applied Physics Letters*, **2006**, 89, 232104	3.4	42
134	Self-assembled conducting polymer monolayers of poly(3-octylthiophene) on gold electrodes. *Synthetic Metals*, **1995**, 75, 5-10	3.6	41
133	Electrochemical behaviour of polypyrrole film polymerized in indigo carmine solution. *Electrochimica Acta*, **1994**, 39, 755-762	6.7	41
132	Voltammetric determination of dopamine in the presence of ascorbic acid at over-oxidized polypyrrole-indigo carmine film-coated electrodes. *Analyst, The*, **1994**, 119, 459-64	5	39
131	A microRNA biosensor based on direct chemical ligation and electrochemically amplified detection. *Sensors and Actuators B: Chemical*, **2007**, 121, 552-559	8.5	38
130	DNA Methyltransferase Activity Assays: Advances and Challenges. *Theranostics*, **2016**, 6, 369-91	12.1	38
129	Electrochemical impedance spectroscopy of cobalt(II)-hexacyanoferrate film modified electrodes. *Electrochimica Acta*, **1993**, 38, 379-385	6.7	37
128	Voltammetric Determination of Dopamine in a Mixture of Dopamine and Ascorbic Acid at a Deactivated Polythiophene Film Modified Electrode.. *Analytical Sciences*, **1998**, 14, 1059-1063	1.7	36
127	A label-free microRNA biosensor based on DNAzyme-catalyzed and microRNA-guided formation of a thin insulating polymer film. *Biosensors and Bioelectronics*, **2013**, 44, 171-6	11.8	34
126	An ultrasensitive homogeneous chemiluminescent assay for microRNAs. *Chemical Communications*, **2013**, 49, 9401-3	5.8	34
125	Femtomol SPR detection of DNA-PNA hybridization with the assistance of DNA-guided polyaniline deposition. *Biosensors and Bioelectronics*, **2008**, 23, 1715-20	11.8	34

124	Catalytic-adsorptive stripping voltammetric determination of chromium in environmental materials. *Electroanalysis*, **1996**, 8, 602-606	3	34
123	Optical Aptasensors for Adenosine Triphosphate. *Theranostics*, **2016**, 6, 1683-702	12.1	34
122	Melamine□terephthalaldehyde□lithium complex: a porous organic network based single ion electrolyte for lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 5132-5139	13	33
121	Electrocatalysis and flow-injection analysis of hydrogen peroxide at a chemically modified electrode. *Analytica Chimica Acta*, **1992**, 259, 211-218	6.6	33
120	A highly sensitive microRNA biosensor based on hybridized microRNA-guided deposition of polyaniline. *Biosensors and Bioelectronics*, **2014**, 60, 195-200	11.8	32
119	Highly sensitive and selective colorimetric genotyping of single-nucleotide polymorphisms based on enzyme-amplified ligation on magnetic beads. *Biosensors and Bioelectronics*, **2012**, 36, 89-94	11.8	32
118	Electrocatalytic oxidation of guanine, guanosine, and guanosine monophosphate. *Biophysical Journal*, **2007**, 92, L70-2	2.9	32
117	Electrochemical study of bilayer conducting polymers: Polypyrrole/polyaniline system. *Journal of Electroanalytical Chemistry*, **1994**, 364, 127-133	4.1	32
116	Novel Alternating Comblike Copolymer Electrolytes with Single Lithium Ionic Conduction. *Chemistry of Materials*, **1998**, 10, 1951-1957	9.6	30
115	Catalytic-adsorptive stripping voltammetric determination of molybdenum in plant foodstuffs. *Talanta*, **1996**, 43, 719-26	6.2	30
114	An amperometric biosensor for glucose based on electrodeposited redox polymer/glucose oxidase film on a gold electrode. *Analytical Sciences*, **2003**, 19, 1259-63	1.7	29
113	Novel Method for Synthesis of □-Lithium Vanadium Oxide as Cathode Materials in Lithium Ion Batteries. *Chemistry of Materials*, **1999**, 11, 3086-3090	9.6	29
112	Voltammetric and amperometric determination of ascorbic acid at a chemically modified carbon fibre microelectrode. *Talanta*, **1993**, 40, 399-403	6.2	29
111	Gold nanoparticle-based exonuclease III signal amplification for highly sensitive colorimetric detection of folate receptor. *Nanoscale*, **2014**, 6, 3055-8	7.7	28
110	The development of electrochemical assays for microRNAs. *Electrochimica Acta*, **2014**, 126, 19-30	6.7	28
109	Genotyping and quantification techniques for single-nucleotide polymorphisms. *TrAC - Trends in Analytical Chemistry*, **2015**, 69, 1-13	14.6	26
108	Silver/gold core-shell nanoprism-based plasmonic nanoprobes for highly sensitive and selective detection of hydrogen sulfide. *Chemistry - A European Journal*, **2015**, 21, 988-92	4.8	26
107	Tin-based oxide anode for lithium-ion batteries with low irreversible capacity. *Journal of Power Sources*, **1998**, 75, 9-12	8.9	26

106	Direct detection of nucleic acids by tagging phosphates on their backbones with conductive nanoparticles. *Angewandte Chemie - International Edition*, **2007**, 46, 2051-4	16.4	25
105	Determination of trace amounts of nitrite by single-sweep polarography. *Analytica Chimica Acta*, **1990**, 230, 105-112	6.6	25
104	Differential pulse voltammetric determination of cobalt with a perfluorinated sulfonated polymer-2,2-bipyridyl modified carbon paste electrode. *Analytical Chemistry*, **1991**, 63, 953-957	7.8	25
103	A highly sensitive and selective homogenous assay for profiling microRNA expression. *Biosensors and Bioelectronics*, **2014**, 54, 650-5	11.8	23
102	Colorimetric detection of single-nucleotide polymorphisms with a real-time PCR-like sensitivity. *Chemical Communications*, **2012**, 48, 10225-7	5.8	23
101	Sequence-selective recognition of nucleic acids under extremely low salt conditions using nanoparticle probes. *Analytical Chemistry*, **2011**, 83, 4090-4	7.8	23
100	A DNA biosensor based on a morpholino oligomer coated indium-tin oxide electrode and a cationic redox polymer. *Analyst, The*, **2009**, 134, 952-7	5	23
99	Highly sensitive sensors for alkali metal ions based on complementary-metal-oxide-semiconductor-compatible silicon nanowires. *Applied Physics Letters*, **2007**, 90, 233903	3.4	23
98	A nucleic acid biosensor for gene expression analysis in nanograms of mRNA. *Analytical Chemistry*, **2004**, 76, 4023-9	7.8	23
97	Electrochemical study of copper-heptacyanonitrosylferrate film modified electrodes: Preparation, properties and applications. *Journal of Electroanalytical Chemistry*, **1993**, 358, 161-176	4.1	23
96	A ferrofluid-based homogeneous assay for highly sensitive and selective detection of single-nucleotide polymorphisms. *Chemical Communications*, **2013**, 49, 8114-6	5.8	22
95	Detection of guanine at a redox polymer modified indium tin oxide electrode. *Sensors and Actuators B: Chemical*, **2007**, 123, 293-298	8.5	22
94	An ultrasensitive nucleic acid biosensor based on the catalytic oxidation of guanine by a novel redox threading intercalator. *Chemical Communications*, **2005**, 1064-6	5.8	22
93	Electrochemistry of ascorbic acid at polypyrrole/ dodecyl sulphate film-coated electrodes and its application. *Journal of Electroanalytical Chemistry*, **1994**, 365, 197-205	4.1	22
92	A highly sensitive electrochemical assay for microRNA expression profiling. *Analyst, The*, **2012**, 137, 1674-9	5	21
91	Amperometric Determination of Ascorbic Acid at an Electrodeposited Redox Polymer Film Modified Gold Electrode. *Electroanalysis*, **2004**, 16, 319-323	3	21
90	Determination of trace amounts of silver with a chemically modified carbon paste electrode. *Analytica Chimica Acta*, **1990**, 229, 213-219	6.6	21
89	Determination of iron(II) with chemically-modified carbon-paste electrodes. *Talanta*, **1991**, 38, 1177-84	6.2	21

88	Electrochemical impedance spectroscopic study of electropolymerized poly(paraphenylene) film on platinum electrode surface. *Electrochimica Acta*, **1994**, 39, 1419-1425	6.7	20
87	Synthesis of Hierarchically Porous Nitrogen-Doped Carbon for Sodium-Ion Batteries. *ChemElectroChem*, **2017**, 4, 1059-1065	4.3	19
86	Metal Oxide Nanoparticles in Electroanalysis. *Electroanalysis*, **2015**, 27, 2074-2090	3	19
85	A DNA biosensor based on the electrocatalytic oxidation of amine by a threading intercalator. *Analytica Chimica Acta*, **2009**, 636, 77-82	6.6	19
84	An ultrasensitive DNA biosensor based on enzyme-catalyzed deposition of cupric hexacyanoferrate nanoparticles. *Biosensors and Bioelectronics*, **2010**, 25, 1420-6	11.8	19
83	Electropolymerization of intercalator-grafted conducting polymer for direct and amplified DNA detection. *Chemical Communications*, **2011**, 47, 1533-5	5.8	18
82	Preparation of nanochain and nanosphere by self-assembly of gold nanoparticles. *Applied Physics Letters*, **2008**, 92, 263108	3.4	18
81	Separation of pinhole and tunneling electron transfer processes at self-assembled polymeric monolayers on gold electrodes. *Journal of Electroanalytical Chemistry*, **1999**, 470, 114-119	4.1	18
80	Permeability controllable overoxidised polypyrrole film modified glassy carbon electrodes. *Analytica Chimica Acta*, **1994**, 286, 213-218	6.6	18
79	Voltammetric determination of trace amounts of gold(III) with a carbon paste electrode modified with chelating resin. *Analytica Chimica Acta*, **1990**, 232, 367-376	6.6	18
78	In situ polymerization of aniline on carbon quantum dots: a new platform for ultrasensitive detection of glucose and hydrogen peroxide. *RSC Advances*, **2015**, 5, 21675-21680	3.7	17
77	A simple and highly sensitive fluorescence assay for microRNAs. *Analyst, The*, **2015**, 140, 1932-8	5	17
76	Visualizing low-level point mutations: enzyme-like selectivity offered by nanoparticle probes. *Small*, **2011**, 7, 306-10	11	17
75	Electrical sensor array for polymerase chain reaction-free messenger RNA expression profiling. *Analytical Chemistry*, **2010**, 82, 5958-64	7.8	17
74	Ionic Conductivity and Electrochemical Characterization of Novel Microporous Composite Polymer Electrolytes. *Journal of the Electrochemical Society*, **1999**, 146, 4410-4418	3.9	17
73	Catalytic voltammetric determination of molybdenum at a chemically modified carbon paste electrode. *Electroanalysis*, **1996**, 8, 1183-1187	3	17
72	Electrochemical study on polypyrrole - poly(3-octylthiophene) bilayer films. *Synthetic Metals*, **1993**, 55, 1453-1458	3.6	17
71	Preconcentration and differential-pulse voltammetric determination of iron(II) with Nafion□1,10-phenanthroline-modified carbon paste electrodes. *Analytica Chimica Acta*, **1990**, 241, 137-146	6.6	17

70	Detection of glucose with a lamellar-ridge architectured gold modified electrode. *Sensors and Actuators B: Chemical*, **2015**, 206, 721-727	8.5	16
69	Heteroatom Doping Combined with Microstructured Carbon to Enhance the Performance of Sodium-Ion Batteries. *Energy Technology*, **2017**, 5, 481-488	3.5	16
68	Highly sensitive amperometric detection of genomic DNA in animal tissues. *Nucleic Acids Research*, **2004**, 32, e15	20.1	16
67	Electrochemical study on the polypyrrole-polyaniline bilayers. *Synthetic Metals*, **1993**, 55, 1477-1482	3.6	16
66	Electrochemical behavior of chromium(III)-hexacyanoferrate film modified electrodes: Voltammetric and electrochemical impedance studies. *Journal of Electroanalytical Chemistry*, **1994**, 370, 95-102	4.1	16
65	Synthetic genetic polymers: advances and applications. *Polymer Chemistry*, **2016**, 7, 5199-5216	4.9	16
64	Microporous Polymeric Composite Electrolytes from Microemulsion Polymerization. *Langmuir*, **1999**, 15, 4812-4819	4	15
63	Synthesis of water-soluble and cross-linkable ferrocenyl redox polymers for uses as mediators in biosensors. *Sensors and Actuators B: Chemical*, **2012**, 168, 238-242	8.5	14
62	An electronic sensor array for label-free detection of single-nucleotide polymorphisms. *Biosensors and Bioelectronics*, **2013**, 43, 165-72	11.8	14
61	A disposable glucose biosensor based on diffusional mediator dispersed in nanoparticulate membrane on screen-printed carbon electrode. *Sensors and Actuators B: Chemical*, **2005**, 111-112, 339-346	8.5	14
60	Determination of Trace Amounts of Copper(I) with a Chemically Modified Carbon Paste Electrode.. *Analytical Sciences*, **1992**, 8, 337-343	1.7	14
59	Rapid, sensitive and highly specific label-free fluorescence biosensor for microRNA by branched rolling circle amplification. *Sensors and Actuators B: Chemical*, **2019**, 281, 424-431	8.5	14
58	Detection of single-nucleotide polymorphisms based on the formation of an electron-transfer impeding layer on an electrode surface. *Chemical Communications*, **2013**, 49, 370-2	5.8	13
57	Synthesis of polyaniline via DNAzyme-catalyzed polymerization of aniline. *RSC Advances*, **2014**, 4, 53257-53264	3.7	13
56	A.C. impedance study on the interface of lithium and polymer electrolyte based on lithium-N(4-sulfophenyl) maleimide. *Solid State Ionics*, **1998**, 112, 1-8	3.3	13
55	Schottky and heterojunction diodes based on poly(3-octylthiophene) and poly(3-methylthiophene) films of high tensile strength. *Thin Solid Films*, **1999**, 350, 283-288	2.2	13
54	Electrochemical nucleic acid biosensors: from fabrication to application. *Analytical Methods*, **2016**, 8, 5169-5189	3.2	12
53	Catalytic-adsorptive stripping voltammetry of cobalt in the presence of 2,2Sbipyridine and nitrite. *Talanta*, **1996**, 43, 255-61	6.2	12

52	Determination of trace amounts of iron by catalytic-adsorptive stripping voltammetry. *Talanta*, **1996**, 43, 727-33	6.2	12
51	Highly sensitive detection of M.SssI DNA methyltransferase activity using a personal glucose meter. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 5867-5872	4.4	11
50	Colorimetric detection of single nucleotide polymorphisms in the presence of 10□fold excess of a wild-type gene. *Biosensors and Bioelectronics*, **2015**, 68, 310-315	11.8	11
49	Electrochemistry of a Thin Cobalt(II)-Heptacyanonitrosylferrate Film Modified Glassy Carbon Electrode.. *Analytical Sciences*, **1998**, 14, 1053-1058	1.7	11
48	Adsorptive stripping voltammetric determination of traces of molybdenum in natural water in the presence of□benzoinoxime. *Mikrochimica Acta*, **1996**, 124, 211-218	5.8	11
47	Electrochemical properties of polypyrrole films polymerized in the presence of Methylene Blue. *Synthetic Metals*, **1994**, 62, 117-123	3.6	11
46	Quantum dots and duplex-specific nuclease enabled ultrasensitive detection and serotyping of Dengue viruses in one step in a single tube. *Biosensors and Bioelectronics*, **2015**, 65, 327-32	11.8	10
45	Quantification techniques for circulating tumor cells. *TrAC - Trends in Analytical Chemistry*, **2015**, 64, 173-182	11.8	10
44	A doubly amplified electrochemical immunoassay for carcinoembryonic antigen. *Biosensors and Bioelectronics*, **2009**, 24, 1825-30	11.8	10
43	Breast cancer susceptibility gene mRNAs quantified by microarrays with electrochemical detection. *Clinical Chemistry*, **2004**, 50, 1231-3	5.5	10
42	Voltammetric response of dopamine at an overoxidised polypyrrole□odecyl sulfate film coated electrode. *Journal of the Chemical Society Chemical Communications*, **1993**, 675-676		10
41	Voltammetric determination of traces of cobalt(II) with a chemically modified carbon paste electrode. *Freseniust Journal of Analytical Chemistry*, **1991**, 339, 137-141		10
40	Ultramicroelectrode ensembles based on self-assembled polymeric monolayers on gold electrodes. *Electrochimica Acta*, **1997**, 42, 315-321	6.7	9
39	Poly-3-octylthiophene films with ultra high tensile strength and flexibility. *Materials Letters*, **1998**, 37, 182-186	3.3	9
38	Electrodeposition of Redox Polymers and Co-Electrodeposition of Enzymes by Coordinative Crosslinking. *Angewandte Chemie*, **2002**, 114, 838-841	3.6	9
37	Determination of cobalt by catalytic-adsorptive differential pulse voltammetry. *Analytica Chimica Acta*, **1996**, 320, 229-234	6.6	9
36	An interference-free implantable glucose microbiosensor based on use of a polymeric analyte regulating membrane. *Frontiers in Bioscience - Landmark*, **2005**, 10, 1797-801	2.8	8
35	Reversible chemical doping of self-assembled poly(3-octylthiophene) monolayers on gold electrodes. *Journal of Electroanalytical Chemistry*, **1996**, 412, 179-182	4.1	8

34	Electrochemical sensor of nitrite based on an inorganic film modified glassy carbon electrode. *Mikrochimica Acta*, **1993**, 111, 63-70	5.8	8
33	Single sweep polarography of palladium-dimethylglyoxime complex. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1988**, 256, 65-75		8
32	Photoelectrochemical Behavior of Oxalate at an Indium Tin Oxide Electrode. *Journal of Physical Chemistry B*, **2004**, 108, 16850-16854	3.4	7
31	Determination of molybdenum using polarographic catalytic current. *Analytica Chimica Acta*, **1995**, 309, 73-78	6.6	7
30	The enhancement effect of surfactants in single-sweep polarography of the palladium-dimethylglyoxime complex. *Electroanalysis*, **1989**, 1, 371-374	3	7
29	A simple and ultrasensitive fluorescence assay for single-nucleotide polymorphism. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 3093-3100	4.4	6
28	An electrodeposited redox polymer–laccase composite film for highly efficient four-electron oxygen reduction. *Journal of Power Sources*, **2013**, 226, 27-32	8.9	6
27	An interference-free glucose biosensor based on an anionic redox polymer-mediated enzymatic oxidation of glucose. *ChemPhysChem*, **2013**, 14, 2343-7	3.2	6
26	Direct-write fabrication of a nanoscale digital logic element on a single nanowire. *Nanotechnology*, **2010**, 21, 245306	3.4	6
25	Determination of trace amounts of mercury using hierarchically nanostructured europium oxide. *Talanta*, **2010**, 82, 1924-8	6.2	6
24	A Dual-Carbon Phase-Modified and Nanostructured Nickel Sulfide Anode for Sodium-Ion Batteries. *Energy Technology*, **2017**, 5, 580-587	3.5	5
23	Label-Free DNA Sensors Based on Field-Effect Transistors with Semiconductor of Carbon Materials. *Chinese Journal of Chemistry*, **2015**, 33, 828-841	4.9	5
22	Direct Detection of Nucleic Acids by Tagging Phosphates on Their Backbones with Conductive Nanoparticles. *Angewandte Chemie*, **2007**, 119, 2097-2100	3.6	5
21	Exceptional anisotropy in conductivity and mechanical properties of poly-3-octylthiophene films. *Thin Solid Films*, **1999**, 347, 146-150	2.2	5
20	Electrochemical characterization of plasticized polyelectrolyte based on lithium-N(4-sulfophenyl) maleimide. *Electrochimica Acta*, **1999**, 44, 2287-2296	6.7	5
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