

Wei Qin

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.

80
papers

1,971
citations

25
h-index

41
g-index

82
ext. papers

2,321
ext. citations

7.6
avg, IF

5.76
L-index

#	Paper	IF	Citations
80	Potentiometric sensor based on molecularly imprinted polymer for determination of melamine in milk. <i>Sensors and Actuators B: Chemical</i> , 2009 , 141, 544-550	8.5	153
79	A Three-Dimensional Origami Paper-Based Device for Potentiometric Biosensing. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13033-13037	16.4	111
78	Applications of nanomaterials in potentiometric sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 51, 79-86	14.6	110
77	Recent advances in potentiometric biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 124, 115803	14.6	108
76	Potentiometric sensing of neutral species based on a uniform-sized molecularly imprinted polymer as a receptor. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2556-9	16.4	97
75	Improved detection limits and unbiased selectivity coefficients obtained by using ion-exchange resins in the inner reference solution of ion-selective polymeric membrane electrodes. <i>Analytical Chemistry</i> , 2000 , 72, 3236-40	7.8	96
74	Current-driven ion fluxes of polymeric membrane ion-selective electrode for potentiometric biosensing. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14640-1	16.4	56
73	Mussel-Inspired Surface-Imprinted Sensors for Potentiometric Label-Free Detection of Biological Species. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6833-6837	16.4	49
72	All-solid-state polymeric membrane ion-selective miniaturized electrodes based on a nanoporous gold film as solid contact. <i>Analytical Chemistry</i> , 2014 , 86, 11038-44	7.8	49
71	Potentiometric aptasensing of <i>Listeria monocytogenes</i> using protamine as an indicator. <i>Analytical Chemistry</i> , 2014 , 86, 9412-6	7.8	49
70	Assembly of carbon nanotubes on a nanoporous gold electrode for acetylcholinesterase biosensor design. <i>Sensors and Actuators B: Chemical</i> , 2014 , 199, 284-290	8.5	47
69	DNA Nanostructure-Based Magnetic Beads for Potentiometric Aptasensing. <i>Analytical Chemistry</i> , 2015 , 87, 6465-9	7.8	47
68	A simple approach for fabricating solid-contact ion-selective electrodes using nanomaterials as transducers. <i>Analytica Chimica Acta</i> , 2015 , 853, 291-296	6.6	39
67	Label-free and substrate-free potentiometric aptasensing using polycation-sensitive membrane electrodes. <i>Analytical Chemistry</i> , 2012 , 84, 2055-61	7.8	37
66	An all-solid-state polymeric membrane Pb ²⁺ -selective electrode with bimodal pore C ₆₀ solid contact. <i>Analytica Chimica Acta</i> , 2015 , 876, 49-54	6.6	35
65	Soluble Molecularly Imprinted Polymer-Based Potentiometric Sensor for Determination of Bisphenol AF. <i>Analytical Chemistry</i> , 2018 , 90, 657-662	7.8	35
64	Potentiometric sensor for determination of neutral bisphenol A using a molecularly imprinted polymer as a receptor. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 4931-6	4.4	34

63	Molecularly imprinted polymer-based potentiometric sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 130, 115980	14.6	31
62	Solid-contact K ⁺ -selective electrode based on three-dimensional molybdenum sulfide nanoflowers as ion-to-electron transducer. <i>Sensors and Actuators B: Chemical</i> , 2016 , 234, 80-83	8.5	31
61	Molecularly imprinted nanoparticles based potentiometric sensor with a nanomolar detection limit. <i>Sensors and Actuators B: Chemical</i> , 2013 , 188, 972-977	8.5	29
60	Paper-based microfluidic sampling and separation of analytes for potentiometric ion sensing. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 346-352	8.5	29
59	A solid-contact potassium-selective electrode with MoO microspheres as ion-to-electron transducer. <i>Analytica Chimica Acta</i> , 2017 , 982, 72-77	6.6	28
58	A polymeric liquid membrane electrode responsive to 3,3',5,5'-tetramethylbenzidine oxidation for sensitive peroxidase/peroxidase mimetic-based potentiometric biosensing. <i>Analytical Chemistry</i> , 2014 , 86, 4416-22	7.8	27
57	A solid-contact Pb ²⁺ -selective polymeric membrane electrode with Nafion-doped poly(pyrrole) as ion-to-electron transducer. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 499-504	2.6	27
56	Polymeric membrane neutral phenol-sensitive electrodes for potentiometric G-quadruplex/hemin DNAzyme-based biosensing. <i>Analytical Chemistry</i> , 2013 , 85, 1945-50	7.8	25
55	Potentiometric sensing of nuclease activities and oxidative damage of single-stranded DNA using a polycation-sensitive membrane electrode. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 559-65	11.8	24
54	An effective solid contact for an all-solid-state polymeric membrane Cd ²⁺ -selective electrode: Three-dimensional porous graphene-mesoporous platinum nanoparticle composite. <i>Sensors and Actuators B: Chemical</i> , 2017 , 239, 438-446	8.5	24
53	An All-solid-state Cd ²⁺ -selective electrode with a low detection limit. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 919-922	8.5	24
52	Pulsed galvanostatic control of a polymeric membrane ion-selective electrode for potentiometric immunoassays. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9488-93	9.5	23
51	A solid-contact Pb(2 ⁺)-selective electrode using poly(2-methoxy-5-(2-hexyloxy)-p-phenylene vinylene) as ion-to-electron transducer. <i>Analytica Chimica Acta</i> , 2011 , 702, 195-8	6.6	23
50	Dual-Analyte Chronopotentiometric Aptasensing Platform Based on a G-Quadruplex/Hemin DNAzyme and Logic Gate Operations. <i>Analytical Chemistry</i> , 2019 , 91, 3170-3176	7.8	23
49	Potentiometric Detection of <i>Listeria monocytogenes</i> via a Short Antimicrobial Peptide Pair-Based Sandwich Assay. <i>Analytical Chemistry</i> , 2018 , 90, 13600-13606	7.8	23
48	Synthesis of MoS ₂ nanoparticles using MoO ₃ nanobelts as precursor via a PVP-assisted hydrothermal method. <i>Materials Letters</i> , 2016 , 182, 347-350	3.3	22
47	Trace-level potentiometric detection in the presence of a high electrolyte background. <i>Analytical Chemistry</i> , 2012 , 84, 10509-13	7.8	21
46	Improving the Biocompatibility of Polymeric Membrane Potentiometric Ion Sensors by Using a Mussel-Inspired Polydopamine Coating. <i>Analytical Chemistry</i> , 2019 , 91, 6424-6429	7.8	20

45	An all-solid-state potentiometric microelectrode for detection of copper in coastal sediment pore water. <i>Sensors and Actuators B: Chemical</i> , 2019 , 279, 369-373	8.5	18
44	Potentiometric aptasensing of small molecules based on surface charge change. <i>Sensors and Actuators B: Chemical</i> , 2018 , 259, 463-466	8.5	17
43	Sequential and Selective Detection of Two Molecules with a Single Solid-Contact Chronopotentiometric Ion-Selective Electrode. <i>Analytical Chemistry</i> , 2018 , 90, 1734-1739	7.8	16
42	Potentiometric Sensor Based on Molecularly Imprinted Polymers for Rapid Determination of Clenbuterol in Pig Urine. <i>Chinese Journal of Analytical Chemistry</i> , 2012 , 40, 354-358	1.6	16
41	An Integrated Screen-Printed Potentiometric Strip for Determination of Ca ²⁺ in Seawater. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B589-B593	3.9	15
40	A potentiometric flow biosensor based on ammonia-oxidizing bacteria for the detection of toxicity in water. <i>Sensors</i> , 2013 , 13, 6936-45	3.8	15
39	Stimulus-Responsive Imprinted Polymer-Based Potentiometric Sensor for Reversible Detection of Neutral Phenols. <i>Analytical Chemistry</i> , 2020 , 92, 4284-4291	7.8	14
38	Potentiometric detection of chemical vapors using molecularly imprinted polymers as receptors. <i>Scientific Reports</i> , 2015 , 5, 12462	4.9	14
37	An all-solid-state imprinted polymer-based potentiometric sensor for determination of bisphenol S. <i>RSC Advances</i> , 2016 , 6, 73308-73312	3.7	14
36	Synthesis and characterization of monoazathiacrown ethers as ionophores for polymeric membrane silver-selective electrodes. <i>Talanta</i> , 2010 , 81, 1056-62	6.2	13
35	Improving the Environmental Compatibility of Marine Sensors by Surface Functionalization with Graphene Oxide. <i>Analytical Chemistry</i> , 2019 , 91, 13268-13274	7.8	12
34	Highly sensitive potentiometric sensor for detection of mercury in Cl ₂ rich samples. <i>Sensors and Actuators B: Chemical</i> , 2015 , 208, 267-272	8.5	12
33	Polycation-sensitive membrane electrode for determination of heparin based on controlled release of protamine. <i>Analyst</i> , 2012 , 137, 1944-9	5	12
32	Reactive intermediates-induced potential responses of a polymeric membrane electrode for ultrasensitive potentiometric biosensing. <i>Chemical Communications</i> , 2012 , 48, 4073-5	5.8	12
31	Alternative coulometric signal readout based on a solid-contact ion-selective electrode for detection of nitrate. <i>Analytica Chimica Acta</i> , 2020 , 1129, 136-142	6.6	12
30	Potentiometric detection of polyions based on functionalized magnetic nanoparticles. <i>Chinese Chemical Letters</i> , 2010 , 21, 1378-1381	8.1	11
29	Pulsed galvanostatic control of a solid-contact ion-selective electrode for potentiometric biosensing of microcystin-LR. <i>Sensors and Actuators B: Chemical</i> , 2016 , 230, 785-790	8.5	11
28	Tetra(p-tolyl)borate-functionalized solvent polymeric membrane: a facile and sensitive sensing platform for peroxidase and peroxidase mimetics. <i>Chemistry - A European Journal</i> , 2013 , 19, 9979-86	4.8	10

27	Polymeric membrane ion-selective electrodes with anti-biofouling properties by surface modification of silver nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2021 , 328, 129014	8.5	10
26	Photoelectric current as a highly sensitive readout for potentiometric sensors. <i>Chemical Communications</i> , 2020 , 56, 3879-3882	5.8	9
25	Single-Piece Solid-Contact Polymeric Membrane Ion-Selective Electrodes for Silver Ion. <i>Journal of the Electrochemical Society</i> , 2013 , 160, B91-B94	3.9	9
24	Enhancing the Oil-Fouling Resistance of Polymeric Membrane Ion-Selective Electrodes by Surface Modification of a Zwitterionic Polymer-Based Oleophobic Self-Cleaning Coating. <i>Analytical Chemistry</i> , 2021 , 93, 6932-6937	7.8	9
23	Real-time monitoring of the dissolution of silver nanoparticles by using a solid-contact Ag-selective electrode. <i>Analytica Chimica Acta</i> , 2020 , 1101, 50-57	6.6	8
22	A solid-contact Ca-selective electrode based on an inorganic redox buffer of Ag@AgCl/1-tetradecyl-3-methylimidazolium chloride as ion-to-electron transducer. <i>Talanta</i> , 2020 , 209, 120570	6.2	8
21	Fine-scale in-situ measurement of lead ions in coastal sediment pore water based on an all-solid-state potentiometric microsensor. <i>Analytica Chimica Acta</i> , 2019 , 1073, 39-44	6.6	7
20	A chronopotentiometric flow injection system for aptasensing of E. coli O157. <i>Analytical Methods</i> , 2015 , 7, 825-829	3.2	7
19	Self-Sterilizing Polymeric Membrane Sensors Based on 6-Chloroindole Release for Prevention of Marine Biofouling. <i>Analytical Chemistry</i> , 2020 , 92, 12132-12136	7.8	7
18	Optical Ion Sensing Platform Based on Potential-Modulated Release of Enzyme. <i>Analytical Chemistry</i> , 2017 , 89, 3235-3239	7.8	6
17	A freestanding all-solid-state polymeric membrane Cu-selective electrode based on three-dimensional graphene sponge. <i>Analytica Chimica Acta</i> , 2019 , 1068, 11-17	6.6	6
16	Current pulse based ion-selective electrodes for chronopotentiometric determination of calcium in seawater. <i>Analytica Chimica Acta</i> , 2018 , 1031, 67-74	6.6	6
15	A magnetic field-directed self-assembly solid contact for construction of an all-solid-state polymeric membrane Ca-selective electrode. <i>Analytica Chimica Acta</i> , 2017 , 989, 15-20	6.6	5
14	Thin polymeric membrane ion-selective electrodes for trace-level potentiometric detection. <i>Analytica Chimica Acta</i> , 2020 , 1139, 1-7	6.6	5
13	An integrated all-solid-state screen-printed potentiometric sensor based on a three-dimensional self-assembled graphene aerogel. <i>Microchemical Journal</i> , 2020 , 159, 105453	4.8	5
12	Magnetic-Field-Driven Extraction of Bioreceptors into Polymeric Membranes for Label-Free Potentiometric Biosensing. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2609-2613	16.4	4
11	Translating potentiometric detection into non-enzymatic amperometric measurement of HO. <i>Talanta</i> , 2021 , 232, 122489	6.2	4
10	Soluble Molecularly Imprinted Nanorods for Homogeneous Molecular Recognition. <i>Frontiers in Chemistry</i> , 2018 , 6, 81	5	2

9	Magneto-controlled potentiometric assay for E. coli based on cleavage of peptide by outer-membrane protease T. <i>Electrochimica Acta</i> , 2021 , 384, 138408	6.7	2
8	Chronopotentiometric aptasensing with signal amplification based on enzyme-catalyzed surface polymerization. <i>Chemical Communications</i> , 2020 , 56, 13355-13358	5.8	1
7	Potentiometric detection of glucose based on oligomerization with a diboronic acid using polycation as an indicator. <i>Analytical Methods</i> , 2020 , 12, 4422-4428	3.2	1
6	Towards potentiometric detection in nonaqueous media: Evaluation of the impacts of organic solvents on polymeric membrane ion-selective electrodes.. <i>Talanta</i> , 2022 , 241, 123238	6.2	0
5	Redox probe-based amperometric sensing for solid-contact ion-selective electrodes. <i>Talanta</i> , 2021 , 239, 123114	6.2	0
4	Potentiometric aptasensing of Escherichia coli based on electrogenerated chemiluminescence as a highly sensitive readout.. <i>Biosensors and Bioelectronics</i> , 2021 , 200, 113923	11.8	0
3	Magnetic-Field-Driven Extraction of Bioreceptors into Polymeric Membranes for Label-Free Potentiometric Biosensing. <i>Angewandte Chemie</i> , 2021 , 133, 2641-2645	3.6	0
2	Light-driven ion extraction of polymeric membranes for on-demand Cu(II) sensing. <i>Analytica Chimica Acta</i> , 2021 , 1176, 338756	6.6	0
1	Anti-fouling polymeric membrane ion-selective electrodes. <i>TrAC - Trends in Analytical Chemistry</i> , 2022 , 150, 116572	14.6	0