Eric Bakker

List of Publications by Year
in descending order

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364 papers	23,831 citations	11235 73 h-index	11608 140 g-index
374 all docs	374 docs citations	374 times ranked	10939 citing authors

#	Article	IF	Citations
1	Carrier-Based Ion-Selective Electrodes and Bulk Optodes. 1. General Characteristics. Chemical Reviews, 1997, 97, 3083-3132.	23.0	2,191
2	Carrier-Based Ion-Selective Electrodes and Bulk Optodes. 2. Ionophores for Potentiometric and Optical Sensors. Chemical Reviews, 1998, 98, 1593-1688.	23.0	1,812
3	Selectivity of Potentiometric Ion Sensors. Analytical Chemistry, 2000, 72, 1127-1133.	3.2	777
4	Electrochemical Sensors. Analytical Chemistry, 2002, 74, 2781-2800.	3.2	467
5	Ionic additives for ion-selective electrodes based on electrically charged carriers. Analytical Chemistry, 1994, 66, 391-398.	3.2	457
6	Lipophilic and immobilized anionic additives in solvent polymeric membranes of cation-selective chemical sensors. Analytica Chimica Acta, 1993, 280, 197-208.	2.6	418
7	Electrochemical Sensors. Analytical Chemistry, 2006, 78, 3965-3984.	3.2	389
8	Electrochemical Sensors. Analytical Chemistry, 2004, 76, 3285-3298.	3.2	370
9	Determination of Unbiased Selectivity Coefficients of Neutral Carrier-Based Cation-Selective Electrodes. Analytical Chemistry, 1997, 69, 1061-1069.	3.2	350
10	Polymer Membrane Ion-Selective Electrodes-What are the Limits?. Electroanalysis, 1999, 11, 915-933.	1.5	298
11	Modern Potentiometry. Angewandte Chemie - International Edition, 2007, 46, 5660-5668.	7.2	282
12	Potentiometric sensors for trace-level analysis. TrAC - Trends in Analytical Chemistry, 2005, 24, 199-207.	5.8	272
13	Anion-selective membrane electrodes based on metalloporphyrins: The influence of lipophilic anionic and cationic sites on potentiometric selectivity. Talanta, 1994, 41, 881-890.	2.9	260
14	Lowering the Detection Limit of Solvent Polymeric Ion-Selective Membrane Electrodes. 2. Influence of Composition of Sample and Internal Electrolyte Solution. Analytical Chemistry, 1999, 71, 1210-1214.	3.2	247
15	Nucleic acid hybridization on an electrically reconfigurable network of gold-coated magnetic nanoparticles enables microRNA detection in blood. Nature Nanotechnology, 2018, 13, 1066-1071.	15.6	244
16	Selectivity of ion-sensitive bulk optodes. Analytical Chemistry, 1992, 64, 1805-1812.	3.2	221
17	Potentiometric Sensing. Analytical Chemistry, 2019, 91, 2-26.	3.2	219
18	Rational Design of Potentiometric Trace Level Ion Sensors. A Ag+-Selective Electrode with a 100 ppt Detection Limit. Analytical Chemistry, 2002, 74, 4027-4036.	3.2	217

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19	Selectivity of liquid membrane ion-selective electrodes. Electroanalysis, 1997, 9, 7-12.	1.5	213
20	Lowering the Detection Limit of Solvent Polymeric Ion-Selective Electrodes. 1. Modeling the Influence of Steady-State Ion Fluxes. Analytical Chemistry, 1999, 71, 1204-1209.	3.2	213
21	Lead-selective bulk optodes based on neutral ionophores with subnanomolar detection limits. Analytical Chemistry, 1992, 64, 1534-1540.	3.2	212
22	Solid-contact polymeric membrane electrodes with detection limits in the subnanomolar range. Analytica Chimica Acta, 2004, 523, 53-59.	2.6	198
23	Solid Contact Potentiometric Sensors for Trace Level Measurements. Analytical Chemistry, 2006, 78, 1318-1322.	3.2	197
24	Effect of Transmembrane Electrolyte Diffusion on the Detection Limit of Carrier-Based Potentiometric Ion Sensors. Analytical Chemistry, 1998, 70, 303-309.	3.2	186
25	Determination of Complex Formation Constants of Lipophilic Neutral Ionophores in Solvent Polymeric Membranes with Segmented Sandwich Membranes. Analytical Chemistry, 1999, 71, 5279-5287.	3.2	182
26	Potentiometric Polymeric Membrane Electrodes for Measurement of Environmental Samples at Trace Levels:Â New Requirements for Selectivities and Measuring Protocols, and Comparison with ICPMS. Analytical Chemistry, 2001, 73, 343-351.	3.2	179
27	Determination of Improved Selectivity Coefficients of Polymer Membrane Ionâ€•Selective Electrodes by Conditioning with a Discriminated Ion. Journal of the Electrochemical Society, 1996, 143, L83-L85.	1.3	177
28	Response Mechanism of Polymer Membrane-Based Potentiometric Polyion Sensors. Analytical Chemistry, 1994, 66, 2250-2259.	3.2	174
29	The phase-boundary potential model. Talanta, 2004, 63, 3-20.	2.9	173
30	Selectivity of Polymer Membrane-Based Ion-Selective Electrodes: Self-Consistent Model Describing the Potentiometric Response in Mixed Ion Solutions of Different Charge. Analytical Chemistry, 1994, 66, 3021-3030.	3.2	156
31	Synthesis and characterization of neutral hydrogen ion-selective chromoionophores for use in bulk optodes. Analytica Chimica Acta, 1993, 278, 211-225.	2.6	155
32	Reversible Electrochemical Detection of Nonelectroactive Polyions. Journal of the American Chemical Society, 2003, 125, 11192-11193.	6.6	153
33	Photocurrent generation based on a light-driven proton pump in an artificial liquid membrane. Nature Chemistry, 2014, 6, 202-207.	6.6	153
34	Potentiometric Biosensing of Proteins with Ultrasensitive Ion-Selective Microelectrodes and Nanoparticle Labels. Journal of the American Chemical Society, 2006, 128, 13676-13677.	6.6	151
35	Aptamer-Based Potentiometric Measurements of Proteins Using Ion-Selective Microelectrodes. Analytical Chemistry, 2008, 80, 707-712.	3.2	140
36	Reversible Photodynamic Chloride-Selective Sensor Based on Photochromic Spiropyran. Journal of the American Chemical Society, 2012, 134, 16929-16932.	6.6	136

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37	Elimination of Undesirable Water Layers in Solid-Contact Polymeric Ion-Selective Electrodes. Analytical Chemistry, 2008, 80, 6731-6740.	3.2	134
38	Effect of Lipophilic Ion-Exchanger Leaching on the Detection Limit of Carrier-Based Ion-Selective Electrodes. Analytical Chemistry, 2001, 73, 5582-5589.	3.2	133
39	All-Solid-State Potentiometric Sensors with a Multiwalled Carbon Nanotube Inner Transducing Layer for Anion Detection in Environmental Samples. Analytical Chemistry, 2015, 87, 8640-8645.	3.2	130
40	Miniature Sodium-Selective Ion-Exchange Optode with Fluorescent pH Chromoionophores and Tunable Dynamic Range. Analytical Chemistry, 1996, 68, 2656-2662.	3.2	129
41	Ion selective optodes: from the bulk to the nanoscale. Analytical and Bioanalytical Chemistry, 2015, 407, 3899-3910.	1.9	125
42	Optimum composition of neutral carrier based pH electrodes. Analytica Chimica Acta, 1994, 295, 253-262.	2.6	120
43	Peer Reviewed: The New Wave of Ion-Selective Electrodes. Analytical Chemistry, 2002, 74, 420 A-426 A.	3.2	119
44	Determination of complex formation constants of 18 neutral alkali and alkaline earth metal ionophores in poly(vinyl chloride) sensing membranes plasticized with bis(2-ethylhexyl)sebacate and o-nitrophenyloctylether. Analytica Chimica Acta, 2000, 421, 207-220.	2.6	116
45	Ion sensors: current limits and new trends. Analytica Chimica Acta, 1999, 393, 11-18.	2.6	114
46	Improving the Detection Limit of Anion-Selective Electrodes:Â An Iodide-Selective Membrane with a Nanomolar Detection Limit. Analytical Chemistry, 2003, 75, 3865-3871.	3.2	113
47	Fiber-Optic Microsensor Array Based on Fluorescent Bulk Optode Microspheres for the Trace Analysis of Silver Ions. Analytical Chemistry, 2005, 77, 4706-4712.	3.2	111
48	Carrier mechanism of acidic ionophores in solvent polymeric membrane ion-selective electrodes. Analytical Chemistry, 1995, 67, 3123-3132.	3.2	109
49	Peer Reviewed: Polyion-Sensitive Membrane Electrodes for Biomedical Analysis. Analytical Chemistry, 1996, 68, 168A-175A.	3.2	108
50	Pulsed Galvanostatic Control of Ionophore-Based Polymeric Ion Sensors. Analytical Chemistry, 2003, 75, 4541-4550.	3.2	108
51	Evidence of a water layer in solid-contact polymeric ion sensors. Physical Chemistry Chemical Physics, 2008, 10, 73-76.	1.3	106
52	Potentiometry at trace levels. TrAC - Trends in Analytical Chemistry, 2001, 20, 11-19.	5.8	103
53	Potentiometric Detection of DNA Hybridization. Journal of the American Chemical Society, 2008, 130, 410-411.	6.6	101
54	Approaches to Improving the Lower Detection Limit of Polymeric Membrane Ion-Selective Electrodes. Electroanalysis, 2006, 18, 1254-1265.	1.5	99

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55	Selective Distance-Based K⁺ Quantification on Paper-Based Microfluidics. Analytical Chemistry, 2018, 90, 4894-4900.	3.2	99
56	Ionophore-based membrane electrodes: new analytical concepts and non-classical response mechanisms. Analytica Chimica Acta, 2000, 416, 121-137.	2.6	96
57	Potentiometry at Trace Levels in Confined Samples:â€‰ Ion-Selective Electrodes with Subfemtomole Detection Limits. Journal of the American Chemical Society, 2006, 128, 8154-8155.	6.6	93
58	Electroanalysis with Membrane Electrodes and Liquidâ€“Liquid Interfaces. Analytical Chemistry, 2016, 88, 395-413.	3.2	92
59	Potentiometric Cd2+-selective electrode with a detection limit in the low ppt range. Analytica Chimica Acta, 2001, 440, 71-79.	2.6	91
60	Determination of complex formation constants of neutral cation-selective ionophores in solvent polymeric membranes. Analytical Chemistry, 1994, 66, 516-521.	3.2	90
61	Novel potentiometric and optical silver ion-selective sensors with subnanomolar detection limits. Analytica Chimica Acta, 2006, 572, 1-10.	2.6	90
62	Lipophilicity of tetraphenylborate derivatives as anionic sites in neutral carrier-based solvent polymeric membranes and lifetime of corresponding ion-selective electrochemical and optical sensors. Analytica Chimica Acta, 1995, 309, 7-17.	2.6	88
63	Plasticizer-Free Polymer Membrane Ion-Selective Electrodes Containing a Methacrylic Copolymer Matrix. Electroanalysis, 2002, 14, 1375-1381.	1.5	88
64	Ionophore-Based Optical Sensors. Annual Review of Analytical Chemistry, 2014, 7, 483-512.	2.8	88
65	Potentiometric Sensing. Analytical Chemistry, 2021, 93, 72-102.	3.2	88
66	Potentiometric Immunoassay with Quantum Dot Labels. Analytical Chemistry, 2007, 79, 5107-5110.	3.2	84
67	Plasticizer-Free Polymer Containing a Covalently Immobilized Ca2+-Selective Ionophore for Potentiometric and Optical Sensors. Analytical Chemistry, 2003, 75, 3038-3045.	3.2	82
68	Pulstrodes:Â Triple Pulse Control of Potentiometric Sensors. Journal of the American Chemical Society, 2004, 126, 10548-10549.	6.6	82
69	Paper-Based Thin-Layer Coulometric Sensor for Halide Determination. Analytical Chemistry, 2015, 87, 1981-1990.	3.2	82
70	General Description of the Simultaneous Response of Potentiometric Ionophore-Based Sensors to Ions of Different Charge. Analytical Chemistry, 1999, 71, 1041-1048.	3.2	78
71	Thin Layer Ionophore-Based Membrane for Multianalyte Ion Activity Detection. Analytical Chemistry, 2015, 87, 7729-7737.	3.2	78
72	Nanoscale potentiometry. TrAC - Trends in Analytical Chemistry, 2008, 27, 612-618.	5.8	77

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73	Chemical Kinetics of Gold Nanorod Growth in Aqueous CTAB Solutions. Crystal Growth and Design, 2011, 11, 3375-3380.	1.4	77
74	Selective Imaging of Late Endosomes with a pH-Sensitive Diazaoxatriangulene Fluorescent Probe. Journal of the American Chemical Society, 2016, 138, 1752-1755.	6.6	77
75	pH Independent Nano-Optode Sensors Based on Exhaustive Ion-Selective Nanospheres. Analytical Chemistry, 2014, 86, 2853-2856.	3.2	75
76	Guidelines for Improving the Lower Detection Limit of Ion-Selective Electrodes: A Systematic Approach. Electroanalysis, 2007, 19, 144-154.	1.5	73
77	Electrogenerated Chemiluminescence for Potentiometric Sensors. Journal of the American Chemical Society, 2012, 134, 205-207.	6.6	73
78	Response Characteristics of a Reversible Electrochemical Sensor for the Polyion Protamine. Analytical Chemistry, 2005, 77, 5221-5228.	3.2	72
79	Solid-contact potentiometric polymer membrane microelectrodes for the detection of silver ions at the femtomole level. Sensors and Actuators B: Chemical, 2007, 121, 135-141.	4.0	72
80	Thin Layer Coulometry with Ionophore Based Ion-Selective Membranes. Analytical Chemistry, 2010, 82, 4537-4542.	3.2	70
81	Detection limit of ion-selective bulk optodes and corresponding electrodes. Analytica Chimica Acta, 1993, 282, 265-271.	2.6	68
82	Ultrasmall Fluorescent Ion-Exchanging Nanospheres Containing Selective Ionophores. Analytical Chemistry, 2013, 85, 9932-9938.	3.2	68
83	Quantification of Colorimetric Data for Paper-Based Analytical Devices. ACS Sensors, 2019, 4, 3093-3101.	4.0	68
84	Quantitive binding constants of H+-selective chromoionophores and anion ionophores in solvent polymeric sensing membranes. Talanta, 2002, 58, 909-918.	2.9	67
85	Response and Diffusion Behavior of Mobile and Covalently Immobilized H+-Ionophores in Polymeric Membrane Ion-Selective Electrodes. Electroanalysis, 2002, 14, 1329-1338.	1.5	65
86	Applicability of the phase boundary potential model to the mechanistic understanding of solvent polymeric membrane-based ion-selective electrodes. Electroanalysis, 1995, 7, 817-822.	1.5	64
87	Reversible Sensing of the Anticoagulant Heparin with Protamine Permselective Membranes. Angewandte Chemie - International Edition, 2012, 51, 12575-12578.	7.2	62
88	Enhancing ion-selective polymeric membrane electrodes by instrumental control. TrAC - Trends in Analytical Chemistry, 2014, 53, 98-105.	5.8	62
89	Charged Solvatochromic Dyes as Signal Transducers in pH Independent Fluorescent and Colorimetric Ion Selective Nanosensors. Analytical Chemistry, 2015, 87, 9954-9959.	3.2	62
90	Ion-Selective Electrodes Based on Two Competitive Ionophores for Determining Effective Stability Constants of Ionâˆ’Carrier Complexes in Solvent Polymeric Membranes. Analytical Chemistry, 1998, 70, 295-302.	3.2	61

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91	Mass-Produced Ionophore-Based Fluorescent Microspheres for Trace Level Determination of Lead Ions. Analytical Chemistry, 2002, 74, 5251-5256.	3.2	61
92	In Situ Detection of Species Relevant to the Carbon Cycle in Seawater with Submersible Potentiometric Probes. Environmental Science and Technology Letters, 2017, 4, 410-415.	3.9	59
93	In Situ Detection of Macronutrients and Chloride in Seawater by Submersible Electrochemical Sensors. Analytical Chemistry, 2018, 90, 4702-4710.	3.2	59
94	Capacitive Model for Coulometric Readout of Ion-Selective Electrodes. Analytical Chemistry, 2018, 90, 8700-8707.	3.2	59
95	Monodisperse Plasticized Poly(vinyl chloride) Fluorescent Microspheres for Selective Ionophore-Based Sensing and Extraction. Analytical Chemistry, 2001, 73, 6083-6087.	3.2	58
96	Selectivity Behavior and Multianalyte Detection Capability of Voltammetric Ionophore-Based Plasticized Polymeric Membrane Sensors. Analytical Chemistry, 2001, 73, 80-90.	3.2	57
97	Molecularly Imprinted Polymer Microspheres Containing Photoswitchable Spiropyran-Based Binding Sites. ACS Applied Materials & Interfaces, 2013, 5, 8537-8545.	4.0	57
98	Ionophore-Based Voltammetric Ion Activity Sensing with Thin Layer Membranes. Analytical Chemistry, 2016, 88, 1654-1660.	3.2	57
99	Equipment-Free Detection of K⁺ on Microfluidic Paper-Based Analytical Devices Based on Exhaustive Replacement with Ionic Dye in Ion-selective Capillary Sensors. ACS Sensors, 2019, 4, 670-677.	4.0	57
100	Spectroscopic in Situ Imaging of Acid Coextraction Processes in Solvent Polymeric Ion-Selective Electrode and Optode Membranes. Analytical Chemistry, 1998, 70, 1176-1181.	3.2	56
101	Potassium ion-selective fluorescent and pH independent nanosensors based on functionalized polyether macrocycles. Chemical Science, 2016, 7, 525-533.	3.7	56
102	Extraction Thermodynamics of Polyanions into Plasticized Polymer Membranes Doped with Lipophilic Ion Exchangers: A Potentiometric Study. Macromolecules, 1995, 28, 5834-5840.	2.2	55
103	Optical determination of ionophore diffusion coefficients in plasticized poly(vinyl chloride) sensing films. Analytica Chimica Acta, 2004, 511, 91-95.	2.6	55
104	Spatial and Spectral Imaging of Single Micrometer-Sized Solvent Cast Fluorescent Plasticized Poly(vinyl chloride) Sensing Particles. Analytical Chemistry, 2001, 73, 315-320.	3.2	54
105	Ferrocene Bound Poly(vinyl chloride) as Ion to Electron Transducer in Electrochemical Ion Sensors. Analytical Chemistry, 2010, 82, 6887-6894.	3.2	54
106	Detection limit of polymeric membrane potentiometric ion sensors: how can we go down to trace levels?. Analytica Chimica Acta, 1999, 397, 103-111.	2.6	53
107	A Copolymerized Dodecacarborane Anion as Covalently Attached Cation Exchanger in Ion-Selective Sensors. Analytical Chemistry, 2003, 75, 6002-6010.	3.2	53
108	Ionophore-Based Ion-Selective Optical NanoSensors Operating in Exhaustive Sensing Mode. Analytical Chemistry, 2014, 86, 8770-8775.	3.2	53

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109	<i>In Situ</i> Ammonium Profiling Using Solid-Contact Ion-Selective Electrodes in Eutrophic Lakes. Analytical Chemistry, 2015, 87, 11990-11997.	3.2	53
110	Polyurethane Ionophore-Based Thin Layer Membranes for Voltammetric Ion Activity Sensing. Analytical Chemistry, 2016, 88, 5649-5654.	3.2	53
111	Renewable pH Cross-Sensitive Potentiometric Heparin Sensors with Incorporated Electrically Charged H+ Ionophores. Analytical Chemistry, 1999, 71, 4614-4621.	3.2	52
112	Multicolor Quantum Dot Encoding for Polymeric Particle-Based Optical Ion Sensors. Analytical Chemistry, 2007, 79, 3716-3723.	3.2	52
113	Cross-linked dodecyl acrylate microspheres: novel matrices for plasticizer-free optical ion sensing. Analytica Chimica Acta, 2001, 442, 25-33.	2.6	51
114	Variable Dimensionality and New Uranium Oxide Topologies in the Alkaline-Earth Metal Uranyl Selenites AE[(UO2)(SeO3)2] (AE=Ca, Ba) and Sr[(UO2)(SeO3)2] Â· 2H2O. Journal of Solid State Chemistry, 2002, 168, 358-366.	1.4	50
115	Dynamic Diffusion Model for Tracing the Real-Time Potential Response of Polymeric Membrane Ion-Selective Electrodes. Analytical Chemistry, 2004, 76, 6402-6409.	3.2	50
116	Calcium Pulstrodes with 10-Fold Enhanced Sensitivity for Measurements in the Physiological Concentration Range. Analytical Chemistry, 2006, 78, 2744-2751.	3.2	50
117	Potentiometric Sensors with Ion-Exchange Donnan Exclusion Membranes. Analytical Chemistry, 2013, 85, 6208-6212.	3.2	50
118	Mechanistic Insights into the Development of Optical Chloride Sensors Based on the [9]Mercuracarborand-3 Ionophore. Analytical Chemistry, 2003, 75, 133-140.	3.2	49
119	Direct Sensing of Total Acidity by Chronopotentiometric Flash Titrations at Polymer Membrane Ion-Selective Electrodes. Analytical Chemistry, 2008, 80, 3743-3750.	3.2	49
120	Non-Severinghaus Potentiometric Dissolved CO₂ Sensor with Improved Characteristics. Analytical Chemistry, 2013, 85, 1332-1336.	3.2	49
121	Dynamic electrochemistry with ionophore based ion-selective membranes. RSC Advances, 2013, 3, 25461.	1.7	49
122	Voltammetric and Amperometric Transduction for Solvent Polymeric Membrane Ion Sensors. Analytical Chemistry, 1999, 71, 3657-3664.	3.2	48
123	Hydrophobic Membranes as Liquid Junction-Free Reference Electrodes. Electroanalysis, 1999, 11, 788-792.	1.5	47
124	Direct Optical Carbon Dioxide Sensing Based on a Polymeric Film Doped with a Selective Molecular Tweezer-Type Ionophore. Analytical Chemistry, 2012, 84, 3163-3169.	3.2	47
125	Tandem Electrochemical Desalinationâ€“Potentiometric Nitrate Sensing for Seawater Analysis. Analytical Chemistry, 2015, 87, 8084-8089.	3.2	47
126	Nitrite-selective microelectrodes. Talanta, 1994, 41, 1001-1005.	2.9	46

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127	Modern directions for potentiometric sensors. Journal of the Brazilian Chemical Society, 2008, 19, 621-629.	0.6	46
128	Evidence for a Surface Confined Ion-to-Electron Transduction Reaction in Solid-Contact Ion-Selective Electrodes Based on Poly(3-octylthiophene). Analytical Chemistry, 2013, 85, 10495-10502.	3.2	46
129	Ion-Selective Optical Nanosensors Based on Solvatochromic Dyes of Different Lipophilicity: From Bulk Partitioning to Interfacial Accumulation. ACS Sensors, 2016, 1, 516-520.	4.0	46
130	Robust Solid-Contact Ion Selective Electrodes for High-Resolution <i>In Situ</i> Measurements in Fresh Water Systems. Environmental Science and Technology Letters, 2017, 4, 286-291.	3.9	46
131	A Label-Free Potentiometric Sensor Principle for the Detection of Antibodyâ€"Antigen Interactions. Analytical Chemistry, 2013, 85, 4770-4776.	3.2	45
132	Can Calibration-Free Sensors Be Realized?. ACS Sensors, 2016, 1, 838-841.	4.0	45
133	Thin layer electrochemical extraction of non-redoxactive cations with an anion-exchanging conducting polymer overlaid with a selective membrane. Chemical Communications, 2009, , 5260.	2.2	44
134	Influence of Nonionic Surfactants on the Potentiometric Response of Hydrogen Ion-Selective Polymeric Membrane Electrodes. Analytical Chemistry, 1996, 68, 1623-1631.	3.2	43
135	Beyond potentiometry: Robust electrochemical ion sensor concepts in view of remote chemical sensing. Talanta, 2008, 75, 629-635.	2.9	43
136	Influence of Lipophilic Inert Electrolytes on the Selectivity of Polymer Membrane Electrodes. Analytical Chemistry, 1998, 70, 1686-1691.	3.2	42
137	Imaging fiber microarray fluorescent ion sensors based on bulk optode microspheres. Analytica Chimica Acta, 2005, 532, 61-69.	2.6	41
138	Phosphate-selective fluorescent sensing microspheres based on uranyl salophene ionophores. Analytica Chimica Acta, 2008, 614, 77-84.	2.6	41
139	Membrane Response Model for Ion-Selective Electrodes Operated by Controlled-Potential Thin-Layer Coulometry. Analytical Chemistry, 2011, 83, 486-493.	3.2	41
140	Colorimetric Readout for Potentiometric Sensors with Closed Bipolar Electrodes. Analytical Chemistry, 2018, 90, 6376-6379.	3.2	41
141	Improved Detection Limits and Sensitivities of Potentiometric Titrations. Analytical Chemistry, 2001, 73, 3768-3775.	3.2	40
142	Selective coulometric release of ions from ion selective polymeric membranes for calibration-free titrations. Analyst, The, 2006, 131, 895.	1.7	40
143	Electrochemical Sample Matrix Elimination for Trace-Level Potentiometric Detection with Polymeric Membrane Ion-Selective Electrodes. Analytical Chemistry, 2008, 80, 6114-6118.	3.2	40
144	In-Line Acidification for Potentiometric Sensing of Nitrite in Natural Waters. Analytical Chemistry, 2017, 89, 571-575.	3.2	39

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145	Voltammetric Thin-Layer Ionophore-Based Films: Part 1. Experimental Evidence and Numerical Simulations. Analytical Chemistry, 2017, 89, 586-594.	3.2	39
146	Colorimetric absorbance mapping and quantitation on paper-based analytical devices. Lab on A Chip, 2020, 20, 1441-1448.	3.1	39
147	Coulometric Sodium Chloride Removal System with Nafion Membrane for Seawater Sample Treatment. Analytical Chemistry, 2012, 84, 6158-6165.	3.2	38
148	Ion-Pairing Ability, Chemical Stability, and Selectivity Behavior of Halogenated Dodecacarborane Cation Exchangers in Neutral Carrier-Based Ion-Selective Electrodes. Analytical Chemistry, 2003, 75, 2131-2139.	3.2	37
149	Direct Ion Speciation Analysis with Ion-Selective Membranes Operated in a Sequential Potentiometric/Time Resolved Chronopotentiometric Sensing Mode. Analytical Chemistry, 2012, 84, 8813-8821.	3.2	37
150	Elimination of Dimer Formation in InIIIPorphyrin-Based Anion-Selective Membranes by Covalent Attachment of the Ionophore. Analytical Chemistry, 2004, 76, 4379-4386.	3.2	36
151	Ion Channel Mimetic Chronopotentiometric Polymeric Membrane Ion Sensor for Surface-Confined Protein Detection. Langmuir, 2009, 25, 568-573.	1.6	36
152	Amplified potentiometric transduction of DNA hybridization using ion-loaded liposomes. Analyst, The, 2010, 135, 1618.	1.7	36
153	Thin layer coulometric determination of nitrate in fresh waters. Analytica Chimica Acta, 2012, 744, 39-44.	2.6	36
154	Potentiometric Response from Ion-Selective Nanospheres with Voltage-Sensitive Dyes. Journal of the American Chemical Society, 2014, 136, 16465-16468.	6.6	36
155	Electrochemical Mechanism of Ferrocene-Based Redox Molecules in Thin Film Membrane Electrodes. Electrochimica Acta, 2017, 238, 357-367.	2.6	36
156	Environmental water analysis with membrane electrodes. Current Opinion in Electrochemistry, 2017, 3, 97-105.	2.5	36
157	Ultrasensitive Seawater pH Measurement by Capacitive Readout of Potentiometric Sensors. ACS Sensors, 2020, 5, 650-654.	4.0	36
158	Perbrominatedcloso-Dodecacarborane Anion, 1-HCB11Br11-, as an Ion Exchanger in Cation-Selective Chemical Sensors. Analytical Chemistry, 2002, 74, 1327-1332.	3.2	35
159	Plasticizer-free microspheres for ionophore-based sensing and extraction based on a methyl methacrylate-decyl methacrylate copolymer matrix. Analytica Chimica Acta, 2003, 500, 127-136.	2.6	34
160	Direct Detection of Acidity, Alkalinity, and pH with Membrane Electrodes. Analytical Chemistry, 2012, 84, 10165-10169.	3.2	34
161	PVCâ€Based Ionâ€Selective Electrodes with Enhanced Biocompatibility by Surface Modification with â€œClickâ€•Chemistry. Electroanalysis, 2013, 25, 1840-1846.	1.5	34
162	Photoresponsive Ion Extraction/Release Systems: Dynamic Ion Optodes for Calcium and Sodium Based on Photochromic Spiropyran. Analytical Chemistry, 2013, 85, 2983-2990.	3.2	34

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163	Direct arsenic(<scp>iii</scp>) sensing by a renewable gold plated Ir-based microelectrode. Analyst, The, 2015, 140, 3526-3534.	1.7	34
164	Normal Pulse Voltammetry as Improved Quantitative Detection Mode for Amperometric Solvent Polymeric Membrane Ion Sensors. Electroanalysis, 2000, 12, 1251-1257.	1.5	33
165	Direct Potentiometric Information on Total Ionic Concentrations. Analytical Chemistry, 2000, 72, 2050-2054.	3.2	33
166	Polymerized Nile Blue derivatives for plasticizer-free fluorescent ion optode microsphere sensors. Analytica Chimica Acta, 2007, 599, 124-133.	2.6	33
167	Evidence of double layer/capacitive charging in carbon nanomaterial-based solid contact polymeric ion-selective electrodes. Chemical Communications, 2016, 52, 9703-9706.	2.2	33
168	Flow Cytometric Ion Detection with Plasticized Poly(Vinyl Chloride) Microspheres Containing Selective Ionophores. Analytical Chemistry, 2002, 74, 5420-5425.	3.2	32
169	Rotating Disk Potentiometry for Inner Solution Optimization of Low-Detection-Limit Ion-Selective Electrodes. Analytical Chemistry, 2003, 75, 6922-6931.	3.2	32
170	Selectivity enhancement of anion-responsive electrodes by pulsed chronopotentiometry. Analytica Chimica Acta, 2007, 583, 190-196.	2.6	32
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