

# Philippe Buhlmann

## List of Publications by Year in Descending Order

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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.

154  
papers

11,681  
citations

51  
h-index

106  
g-index

173  
ext. papers

12,517  
ext. citations

7.5  
avg, IF

6.37  
L-index

#	Paper	IF	Citations
154	Comparison of the kinetics of aldehyde sensing by covalent bond formation with hydrazines and hydroxylamines. <i>Tetrahedron</i> , <b>2022</b> , 132852	2.4	
153	Ion-Selective Potentiometric Sensors with Silicone Sensing Membranes: A Review. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 32, 100896	7.2	2
152	Easy-to-Make Capillary-Based Reference Electrodes with Controlled, Pressure-Driven Electrolyte Flow. <i>ACS Sensors</i> , <b>2021</b> , 6, 2211-2217	9.2	2
151	Calibration-free potentiometric sensing with solid-contact ion-selective electrodes. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2021</b> , 140, 116277	14.6	18
150	Solid-Contact pH Sensor with Covalent Attachment of Ionophores and Ionic Sites to a Poly(decyl methacrylate) Matrix. <i>Analytical Chemistry</i> , <b>2021</b> ,	7.8	1
149	Ultraclean Graphene Transfer Using a Sacrificial Fluoropolymer Nanolayer: Implications for Sensor and Electronic Applications. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 11998-12007	5.6	1
148	Reference Electrodes Based on Ionic Liquid-Doped Reference Membranes with Biocompatible Silicone Matrixes. <i>ACS Sensors</i> , <b>2020</b> , 5, 1717-1725	9.2	5
147	Fluorous-Phase Ion-Selective pH Electrodes: Electrode Body and Ionophore Optimization for Measurements in the Physiological pH Range. <i>ACS Omega</i> , <b>2020</b> , 5, 13621-13629	3.9	8
146	Solid-Contact Ion-Selective and Reference Electrodes Covalently Attached to Functionalized Poly(ethylene terephthalate). <i>Analytical Chemistry</i> , <b>2020</b> , 92, 7621-7629	7.8	10
145	Critical Comparison of Reference Electrodes with Salt Bridges Contained in Nanoporous Glass with 5, 20, 50, and 100 nm Diameter Pores. <i>Analytical Sciences</i> , <b>2020</b> , 36, 187-191	1.7	4
144	Rethinking Graduate Recruitment Weekends in the Digital Age. <i>Journal of Chemical Education</i> , <b>2020</b> , 97, 2544-2555	2.4	1
143	Ionic liquid-based reference electrodes for miniaturized ion sensors: What can go wrong?. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 301, 127112	8.5	11
142	More than a Liquid Junction: Effect of Stirring, Flow Rate, and Inward and Outward Electrolyte Diffusion on Reference Electrodes with Salt Bridges Contained in Nanoporous Glass. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7698-7704	7.8	5
141	Indirect Potentiometric Determination of Polyquaternium Polymer Concentrations by Equilibrium Binding to 1-Dodecyl Sulfate. <i>Analytical Sciences</i> , <b>2019</b> , 35, 679-684	1.7	3
140	Remediation of Perfluorooctylsulfonate Contamination by in Situ Sequestration: Direct Monitoring of PFOS Binding to Polyquaternium Polymers. <i>ACS Omega</i> , <b>2019</b> , 4, 1068-1076	3.9	6
139	Potentiometric Selectivities of Ionophore-Doped Ion-Selective Membranes: Concurrent Presence of Primary Ion or Interfering Ion Complexes of Multiple Stoichiometries. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 2409-2417	7.8	9
138	Functionalized Mesoporous Polymers with Enhanced Performance as Reference Electrode Frits. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 139-144	5.6	5

137	Cleaning of pH Selective Electrodes with Ionophore-doped Fluorous Membranes in NaOH Solution at 90 °C. <i>Electroanalysis</i> , <b>2018</b> , 30, 611-618	3	6
136	Redox Buffer Capacity of Ion-Selective Electrode Solid Contacts Doped with Organometallic Complexes. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 11000-11007	7.8	23
135	Stress and Mental Health in Graduate School: How Student Empowerment Creates Lasting Change. <i>Journal of Chemical Education</i> , <b>2018</b> , 95, 1939-1946	2.4	22
134	Paper-Based All-Solid-State Ion-Sensing Platform with a Solid Contact Comprising Colloid-Imprinted Mesoporous Carbon and a Redox Buffer. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 293-301	5.6	14
133	Elucidating the Role of AgCl in the Nucleation and Growth of Silver Nanoparticles in Ethylene Glycol. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 324-330	3.5	13
132	In Situ Sensing of the Neurotransmitter Acetylcholine in a Dynamic Range of 1 nM to 1 mM. <i>ACS Sensors</i> , <b>2018</b> , 3, 2581-2589	9.2	37
131	Noncovalent Monolayer Modification of Graphene Using Pyrene and Cyclodextrin Receptors for Chemical Sensing. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 2718-2726	5.6	19
130	Self-Supporting, Hydrophobic, Ionic Liquid-Based Reference Electrodes Prepared by Polymerization-Induced Microphase Separation. <i>ACS Sensors</i> , <b>2017</b> , 2, 1498-1504	9.2	14
129	Capacitive Sensing of Glucose in Electrolytes Using Graphene Quantum Capacitance Varactors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38863-38869	9.5	27
128	Semifluorinated Polymers as Ion-selective Electrode Membrane Matrixes. <i>Electroanalysis</i> , <b>2017</b> , 29, 739-747	3.4	7
127	Ion Aggregation and RN-C(R)-H <sub>2</sub> N <sub>2</sub> R Hydrogen Bonding in a Fluorous Phase. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 11239-11246	3.4	4
126	A Disposable Planar Paper-Based Potentiometric Ion-Sensing Platform. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 7670-7673	3.6	15
125	Ionic Liquids as Electrolytes for Electrochemical Double-Layer Capacitors: Structures that Optimize Specific Energy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 3396-406	9.5	132
124	Electrochemical Stability of Quaternary Ammonium Cations: An Experimental and Computational Study. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, H74-H80	3.9	24
123	Rational design of all-solid-state ion-selective electrodes and reference electrodes. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2016</b> , 76, 102-114	14.6	276
122	Donnan Failure of Ion-Selective Electrodes with Hydrophilic High-Capacity Ion-Exchanger Membranes. <i>ACS Sensors</i> , <b>2016</b> , 1, 95-101	9.2	20
121	A Disposable Planar Paper-Based Potentiometric Ion-Sensing Platform. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 7544-7	16.4	73
120	Glucose sensing with graphene varactors <b>2016</b> ,		2

119	One-dimensional ionic self-assembly in a fluoruous solution: the structure of tetra-n-butylammonium tetrakis[3,5-bis(perfluorohexyl)phenyl]borate in perfluoromethylcyclohexane by small-angle neutron scattering (SANS). <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 9470-5	3.6	3
118	New Perspectives on Silver Nanowire Formation from Dynamic Silver Ion Concentration Monitoring and Nitric Oxide Production in the Polyol Process. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 1861-1868	3.5	16
117	Electrochemical Impedance Spectroscopy of Ion-Selective Membranes: Artifacts in Two-, Three-, and Four-Electrode Measurements. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9738-9745	7.8	19
116	Avoiding Errors in Electrochemical Measurements: Effect of Frit Material on the Performance of Reference Electrodes with Porous Frit Junctions. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 8706-13	7.8	40
115	Electrochemical Reduction of 2,4-Dinitrotoluene in Aprotic and pH-Buffered Media. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 13088-13097	3.8	25
114	Hierarchically Porous Polymer Monoliths by Combining Controlled Macro- and Microphase Separation. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 8896-9	16.4	107
113	Unbiased Quantification of the Electrochemical Stability Limits of Electrolytes and Ionic Liquids. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A2250-A2258	3.9	36
112	Dynamic silver speciation as studied with fluoruous-phase ion-selective electrodes: Effect of natural organic matter on the toxicity and speciation of silver. <i>Science of the Total Environment</i> , <b>2015</b> , 537, 453-61	10.2	36
111	Potentiometric in Situ Monitoring of Anions in the Synthesis of Copper and Silver Nanoparticles Using the Polyol Process. <i>ACS Nano</i> , <b>2015</b> , 9, 12104-14	16.7	15
110	Ionic Liquid Reference Electrodes With a Well-Controlled Co(II)/Co(III) Redox Buffer as Solid Contact. <i>Electroanalysis</i> , <b>2015</b> , 27, 602-608	3	30
109	Effects of Humic and Fulvic Acids on Silver Nanoparticle Stability, Dissolution, and Toxicity. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 8078-86	10.3	183
108	All-solid-state reference electrodes based on colloid-imprinted mesoporous carbon and their application in disposable paper-based potentiometric sensing devices. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 2981-7	7.8	74
107	Paper-based potentiometric ion sensing. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 9548-53	7.8	117
106	Ion-selective electrodes with colloid-imprinted mesoporous carbon as solid contact. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 7111-8	7.8	127
105	Calibration-free ionophore-based ion-selective electrodes with a Co(II)/Co(III) redox couple-based solid contact. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 8687-92	7.8	67
104	Characterization of silver ion dissolution from silver nanoparticles using fluoruous-phase ion-selective electrodes and assessment of resultant toxicity to <i>Shewanella oneidensis</i> . <i>Chemical Science</i> , <b>2013</b> , 4, 2564	9.4	70
103	Quenching Performance of Surfactant-Containing and Surfactant-Free Fluorophore-Doped Mesoporous Silica Films for Nitroaromatic Compound Detection. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 711-722	9.6	18
102	Three-Dimensionally Ordered Mesoporous (3DOM) Carbon Materials as Electrodes for Electrochemical Double-Layer Capacitors with Ionic Liquid Electrolytes. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4137-4148	9.6	124

101	Unbiased Assessment of Electrochemical Windows: Minimizing Mass Transfer Effects on the Evaluation of Anodic and Cathodic Limits. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A320-A323	3.9	17
100	Solid contact ion-selective electrodes with a well-controlled Co(II)/Co(III) redox buffer layer. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 9350-5	7.8	70
99	Fluorous membrane ion-selective electrodes for perfluorinated surfactants: trace-level detection and in situ monitoring of adsorption. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 7471-7	7.8	42
98	Current pulse based reference electrodes without liquid junctions. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 3817-218	7.8	14
97	Lifting of the surface reconstruction of Au(111) as a sensitive probe to monitor adsorption of cyclodextrin and its complexes in halide solutions. <i>Journal of Electroanalytical Chemistry</i> , <b>2013</b> , 693, 1-8	4.1	1
96	Reference electrodes with salt bridges contained in nanoporous glass: an underappreciated source of error. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 8895-901	7.8	32
95	Mrafted? 11, International Conference on Electrochemical Sensors. <i>Electroanalysis</i> , <b>2012</b> , 24, 11-12	3	
94	Ion-Selective Electrodes With Ionophore-Doped Sensing Membranes <b>2012</b> ,		31
93	Receptor-based detection of 2,4-dinitrotoluene using modified three-dimensionally ordered macroporous carbon electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 4731-9	9.5	22
92	Cyanide-selective electrode based on Zn(II) tetraphenylporphyrin as ionophore. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 9192-8	7.8	29
91	Self-assembled monolayers formed by 5,10,15,20-tetra(4-pyridyl)porphyrin and cobalt 5,10,15,20-tetra(4-pyridyl)-21H,23H-porphine on iodine-passivated Au(111) as observed using electrochemical scanning tunneling microscopy and cyclic voltammetry. <i>Journal of Electroanalytical Chemistry</i> , <b>2012</b> , 664, 94-99	4.1	2
90	Advantages and limitations of reference electrodes with an ionic liquid junction and three-dimensionally ordered macroporous carbon as solid contact. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 7771-8	7.8	44
89	Ion-selective electrodes with unusual response functions: simultaneous formation of ionophore-primary ion complexes with different stoichiometries. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 1104-11	7.8	17
88	Interaction of a weakly acidic dinitroaromatic with alkylamines: avoiding the Meisenheimer trap. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 12858-65	16.4	25
87	Getting more out of a Job plot: determination of reactant to product stoichiometry in cases of displacement reactions and n:n complex formation. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 8406-12	4.2	78
86	Potentiometric sensors based on fluorous membranes doped with highly selective ionophores for carbonate. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 20869-77	16.4	55
85	Voltage-induced chemical contrast in scanning tunneling microscopy using tips chemically modified with hydrogen bond donors. <i>Surface Science</i> , <b>2011</b> , 605, 1099-1102	1.8	3
84	Effects of architecture and surface chemistry of three-dimensionally ordered macroporous carbon solid contacts on performance of ion-selective electrodes. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 680-8	7.8	79

83	Minimizing Hazardous Waste in the Undergraduate Analytical Laboratory: A Microcell for Electrochemistry. <i>Journal of Chemical Education</i> , <b>2010</b> , 87, 1260-1261	2.4	11
82	Redox potential and C-H bond cleaving properties of a nonheme Fe(IV)=O complex in aqueous solution. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 7638-44	16.4	79
81	Highly selective detection of silver in the low ppt range with ion-selective electrodes based on ionophore-doped fluorosulfonated membranes. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7634-40	7.8	79
80	Bromine-passivated Au(111) as a platform for the formation of organic self-assembled monolayers under electrochemical conditions. <i>Langmuir</i> , <b>2010</b> , 26, 7133-7	4	8
79	Chemical stability and application of a fluorophilic tetraalkylphosphonium salt in fluorosulfonated membrane anion-selective electrodes. <i>New Journal of Chemistry</i> , <b>2010</b> , 34, 1867	3.6	17
78	Electrochemistry in Media of Exceptionally Low Polarity: Voltammetry with a Fluorosulfonated Solvent. <i>Journal of Electroanalytical Chemistry</i> , <b>2010</b> , 639, 154-160	4.1	14
77	Cation-Coordinating Properties of Perfluoro-15-Crown-5. <i>Journal of Fluorine Chemistry</i> , <b>2010</b> , 131, 42-46	2.1	12
76	Subnanomolar Detection Limit Application of Ion-Selective Electrodes with Three-Dimensionally Ordered Macroporous (3DOM) Carbon Solid Contacts. <i>Journal of Solid State Electrochemistry</i> , <b>2009</b> , 13, 123-128	2.6	52
75	Fluorosulfonated polymeric membranes for ionophore-based ion-selective potentiometry: how inert is Teflon AF?. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 1598-1606	16.4	47
74	Fluorophilic ionophores for potentiometric pH determinations with fluorosulfonated membranes of exceptional selectivity. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 2084-90	7.8	39
73	Plasticization of amorphous perfluoropolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2008</b> , 46, 516-525	2.6	19
72	Response Mechanism of Ion-Selective Electrodes Based on a Guanidine Ionophore: An Apparently Two-Thirds Nernstian Response Slope. <i>Electroanalysis</i> , <b>2008</b> , 20, 331-339	3	8
71	Preparation of a Highly Fluorophilic Phosphonium Salt and its Use in a Fluorosulfonated Anion-Exchanger Membrane with High Selectivity for Perfluorinated Acids. <i>Journal of Fluorine Chemistry</i> , <b>2008</b> , 129, 961-967	2.1	17
70	Formation of gold nanoparticles on multiwalled carbon nanotubes by thermal evaporation. <i>Carbon</i> , <b>2008</b> , 46, 1966-1972	10.4	47
69	Effect of spacer geometry on oxoanion binding by bis- and tetrakis-thiourea hosts. <i>Tetrahedron</i> , <b>2008</b> , 64, 2530-2536	2.4	22
68	Assessment of Density Functionals, Semiempirical Methods, and SCC-DFTB for Protonated Creatinine Geometries. <i>Computational and Theoretical Chemistry</i> , <b>2008</b> , 861, 68-73		10
67	Cathodic electropaint insulated tips for electrochemical scanning tunneling microscopy. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 9224-8	7.8	10
66	Ion gels by self-assembly of a triblock copolymer in an ionic liquid. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4645-52	3.4	268

65	Ion-selective electrodes with three-dimensionally ordered macroporous carbon as the solid contact. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 4621-6	7.8	216
64	Single-step electrochemical method for producing very sharp Au scanning tunneling microscopy tips. <i>Review of Scientific Instruments</i> , <b>2007</b> , 78, 113703	1.7	23
63	Influence of calcium and phosphorus, lactose, and salt-to-moisture ratio on Cheddar cheese quality: pH buffering properties of cheese. <i>Journal of Dairy Science</i> , <b>2006</b> , 89, 938-50	4	36
62	Electrochemical sensors A report on the International Conference on Electrochemical Sensors, Műraffed 05 held at Műraffed, Hungary, 13-18 November 2005. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2006</b> , 25, 93-95	14.6	2
61	Characterization of a deoxyguanosine adduct of tetrachlorobenzoquinone: dichlorobenzoquinone-1,N2-etheno-2'-deoxyguanosine. <i>Chemical Research in Toxicology</i> , <b>2005</b> , 18, 1770-4	4	25
60	Fluorous bulk membranes for potentiometric sensors with wide selectivity ranges: observation of exceptionally strong ion pair formation. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 8958-9	16.4	78
59	Coordinative properties of highly fluorinated solvents with amino and ether groups. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 16976-84	16.4	52
58	Visible and FTIR Microscopic Observation of Bisthiourea Ionophore Aggregates in Ion-Selective Electrode Membranes. <i>Electroanalysis</i> , <b>2005</b> , 17, 2019-2025	3	6
57	Sequential shape-and-solder-directed self-assembly of functional microsystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 12814-7	11.5	91
56	Ion-Selective Electrodes for Thiocyanate Based on the Dinuclear Zinc(II) Complex of a Bis-N,O-bidentate Schiff Base. <i>Electroanalysis</i> , <b>2004</b> , 16, 973-978	3	26
55	The phase-boundary potential model. <i>Talanta</i> , <b>2004</b> , 63, 3-20	6.2	142
54	Glass and polymeric membrane electrodes for the measurement of pH in milk and cheese. <i>Talanta</i> , <b>2004</b> , 63, 139-48	6.2	28
53	Scanning tunneling microscopy with chemically modified gold tips: in situ reestablishment of chemical contrast. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 1089-93	7.8	16
52	A generalized model for apparently "non-Nernstian" equilibrium responses of ionophore-based ion-selective electrodes. 1. Independent complexation of the ionophore with primary and secondary ions. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3329-39	7.8	36
51	Potentiometric coefficients of ion-selective electrodes. Part III. Organic ions (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2002</b> , 74, 995-1099	2.1	43
50	Potentiometric selectivity coefficients of ion-selective electrodes. Part II. Inorganic anions (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2002</b> , 74, 923-994	2.1	86
49	Design and Application of Ion-Channel Sensors Based on Biological and Artificial Receptors. <i>Bulletin of the Chemical Society of Japan</i> , <b>2002</b> , 75, 187-201	5.1	50
48	Redox-Active Self-Assembled Monolayers for Solid-Contact Polymeric Membrane Ion-Selective Electrodes. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 1721-1729	9.6	90

47	Scanning tunneling microscopy with chemically modified tips: discrimination of porphyrin centers based on metal coordination and hydrogen bond interactions. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 878-83	7.8	57
46	Influence of natural, electrically neutral lipids on the potentiometric responses of cation-selective polymeric membrane electrodes. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 3199-205	7.8	39
45	Scanning tunneling microscopy with chemically modified tips: orientation-sensitive observation of ether oxygens. <i>Surface Science</i> , <b>2001</b> , 490, L579-L584	1.8	30
44	Discrimination of functional groups with scanning tunneling microscopy using chemically modified tips: Recognition of ether oxygens through hydrogen bond interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 1867-1869	3.6	29
43	Electrochemical Detection of a One-Base Mismatch in an Oligonucleotide Using Ion-Channel Sensors with Self-Assembled PNA Monolayers. <i>Electroanalysis</i> , <b>2000</b> , 12, 1272-1276	3	84
42	Development of an ion-channel sensor for heparin detection. <i>Analytica Chimica Acta</i> , <b>2000</b> , 411, 163-173	6.6	64
41	Selectivity of potentiometric ion sensors. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 1127-33	7.8	633
40	Origin of non-Nernstian anion response slopes of metalloporphyrin-based liquid/polymer membrane electrodes. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 5766-73	7.8	92
39	Potentiometric Selectivity Coefficients of Ion-Selective Electrodes. Part I. Inorganic Cations (Technical Report). <i>Pure and Applied Chemistry</i> , <b>2000</b> , 72, 1851-2082	2.1	725
38	Redox-active self-assembled monolayers as novel solid contacts for ion-selective electrodes. <i>Chemical Communications</i> , <b>2000</b> , 339-340	5.8	92
37	Electrostatically-Induced Inclusion of Anions in Cyclodextrin Monolayers on Electrodes. <i>Langmuir</i> , <b>2000</b> , 16, 1388-1396	4	42
36	Lifetime of ion-selective electrodes based on charged ionophores. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 1843-528		26
35	Cationic or anionic sites? Selectivity optimization of ion-selective electrodes based on charged ionophores. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 1618-31	7.8	117
34	Self-assembly of a tricarboxylate receptor through thioamide groups and its use for electrochemical detection of protonated amines. <i>Journal of Electroanalytical Chemistry</i> , <b>1999</b> , 473, 105-112	11.2	19
33	Japan builds bridges to rest of the world. <i>Nature</i> , <b>1999</b> , 402, 458-458	50.4	
32	Ion-Channel Mimetic Sensors Based on Self-Assembled Monolayers of Phosphate Esters: High Selectivity for Trivalent Cations. <i>Mikrochimica Acta</i> , <b>1999</b> , 132, 55-60	5.8	10
31	Apparently Non-Nernstian Equilibrium Responses Based on Complexation Between the Primary Ion and a Secondary Ion in the Liquid ISE Membrane. <i>Electroanalysis</i> , <b>1999</b> , 11, 687-693	3	21
30	Polymer Membrane Ion-Selective Electrodes—What are the Limits?. <i>Electroanalysis</i> , <b>1999</b> , 11, 915-933	3	234

29	Ion-Channel-Mimetic Sensing of Hydrophilic Anions Based on Monolayers of a Hydrogen Bond-Forming Receptor. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 1183-1187	7.8	58
28	An ion-selective electrode for acetate based on a urea-functionalized porphyrin as a hydrogen-bonding ionophore. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 1049-54	7.8	70
27	Polypyrrole-modified tips for functional group recognition in scanning tunneling microscopy. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 1699-705	7.8	48
26	Voltammetric Detection of the Polycation Protamine by the Use of Electrodes Modified with Self-Assembled Monolayers of Thioctic Acid. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 5109-5115	7.8	66
25	Observation of Silver and Hydrogen Ion Binding to Self-Assembled Monolayers Using Chemically Modified AFM Tips. <i>Langmuir</i> , <b>1999</b> , 15, 2788-2793	4	22
24	Application of a bis-thiourea ionophore for an anion selective electrode with a remarkable sulfate selectivity. <i>Analytica Chimica Acta</i> , <b>1998</b> , 358, 35-44	6.6	92
23	Hydrogen-Bonding Ionophores for Inorganic Anions and Nucleotides and Their Application in Chemical Sensors. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>1998</b> , 32, 151-163		18
22	Chemical Sensing with Chemically Modified Electrodes that Mimic Gating at Biomembranes Incorporating Ion-Channel Receptors. <i>Electroanalysis</i> , <b>1998</b> , 10, 1149-1158	3	58
21	A phase boundary potential model for apparently "twice-nernstian" responses of liquid membrane ion-selective electrodes. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 445-54	7.8	56
20	Scanning Tunneling Microscopy Using Chemically Modified Tips. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 255-259	7.8	47
19	Co-Ion Interference for Ion-Selective Electrodes Based on Charged and Neutral Ionophores: A Comparison. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 4291-4303	7.8	62
18	Carrier-Based Ion-Selective Electrodes and Bulk Optodes. 2. Ionophores for Potentiometric and Optical Sensors. <i>Chemical Reviews</i> , <b>1998</b> , 98, 1593-1688	68.1	1584
17	Channel Mimetic Sensing Membranes for Nucleotides Based on Multitopic Hydrogen Bonding. <i>Israel Journal of Chemistry</i> , <b>1997</b> , 37, 267-275	3.4	14
16	Fluorescence-mediated sensing of guanosine derivatives based on multitopic hydrogen bonding. <i>Chemical Communications</i> , <b>1997</b> , 1027-1028	5.8	22
15	Donnan Exclusion Failure of Neutral Ionophore-Based Ion-Selective Electrodes Studied by Optical Second-Harmonic Generation. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 1919-1924	7.8	68
14	Carrier-Based Ion-Selective Electrodes and Bulk Optodes. 1. General Characteristics. <i>Chemical Reviews</i> , <b>1997</b> , 97, 3083-3132	68.1	1884
13	A Chloride Ion-Selective Solvent Polymeric Membrane Electrode Based on a Hydrogen Bond Forming Ionophore. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 1038-1044	7.8	139
12	Modification of Silicon Nitride Tips with Trichlorosilane Self-Assembled Monolayers (SAMs) for Chemical Force Microscopy. <i>Langmuir</i> , <b>1997</b> , 13, 4323-4332	4	94

11	Strong hydrogen bond-mediated complexation of H <sub>2</sub> PO <sub>4</sub> <sup>-</sup> by neutral bis-thiourea hosts. <i>Tetrahedron</i> , <b>1997</b> , 53, 1647-1654	2.4	207
10	Hydrogen bond based recognition of nucleotides by neutral-carrier ion-selective electrodes. <i>Analytica Chimica Acta</i> , <b>1997</b> , 341, 129-139	6.6	39
9	Chemical sensing based on membranes with supramolecular functions of biomimetic and biological origin. <i>Advances in Supramolecular Chemistry</i> , <b>1997</b> , 211-285		6
8	Anion recognition by urea and thiourea groups: Remarkably simple neutral receptors for dihydrogenphosphate. <i>Tetrahedron Letters</i> , <b>1995</b> , 36, 6483-6486	2	192
7	Molecular Resolution Images of a Calix[6]arene from Atomic Force Microscopy. <i>Langmuir</i> , <b>1995</b> , 11, 635-638		12
6	EMF response of neutral-carrier based ion-sensitive field effect transistors with membranes free of ionic sites. <i>Electrochimica Acta</i> , <b>1995</b> , 40, 3021-3027	6.7	61
5	Studies on the phase boundaries and the significance of ionic sites of liquid membrane ion-selective electrodes. <i>Electroanalysis</i> , <b>1995</b> , 7, 811-816	3	74
4	Optical sensors based on neutral carriers. <i>Sensors and Actuators B: Chemical</i> , <b>1993</b> , 11, 1-8	8.5	22
3	Molecular recognition of creatinine. <i>Tetrahedron</i> , <b>1993</b> , 49, 595-598	2.4	20
2	Neutral hosts for the complexation of creatinine. <i>Tetrahedron</i> , <b>1993</b> , 49, 7627-7636	2.4	24
1	Chemical Sensing with Chemically Modified Electrodes that Mimic Gating at Biomembranes Incorporating Ion-Channel Receptors		1