

Eric Bakker

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.

344
papers

19,723
citations

69
h-index

127
g-index

374
ext. papers

21,313
ext. citations

7.5
avg, IF

7.25
L-index

#	Paper	IF	Citations
344	Ionophore interactions in polymeric membranes studied by thin layer voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2022 , 358, 131428	8.5	0
343	Surfactants for Optode Emulsion Stabilization without Sacrificing Selectivity or Binding Constants. <i>Analytical Chemistry</i> , 2021 , 93, 15941-15948	7.8	1
342	Dialysis membranes as liquid junction materials: Simplified model based on the phase boundary potential. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 115886	4.1	0
341	Protamine/heparin optical nanosensors based on solvatochromism.. <i>Chemical Science</i> , 2021 , 12, 15596-15602	5.4	1
340	Ion-to-electron capacitance of single-walled carbon nanotube layers before and after ion-selective membrane deposition. <i>Mikrochimica Acta</i> , 2021 , 188, 149	5.8	0
339	Colorimetric ratiometry with ion optodes for spatially resolved concentration analysis. <i>Analytica Chimica Acta</i> , 2021 , 1154, 338225	6.6	3
338	Perspectives and Future Directions of the Division of Analytical Sciences of the Swiss Chemical Society. <i>Chimia</i> , 2021 , 75, 455-456	1.3	1
337	Separating boundary potential changes at thin solid contact ion transfer voltammetric membrane electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 880, 114800	4.1	5
336	Newly designed gel-integrated nanostructured gold-based interconnected microelectrode arrays for continuous in situ arsenite monitoring in aquatic systems. <i>Sensors and Actuators B: Chemical</i> , 2021 , 328, 128996	8.5	10
335	Potentiometric Sensing. <i>Analytical Chemistry</i> , 2021 , 93, 72-102	7.8	36
334	Voltammetric Sensor of Potentially Bioavailable Inorganic Mercury in Marine Aquatic Systems Based on Gel-Integrated Nanostructured Gold-Based Microelectrode Arrays. <i>ACS Sensors</i> , 2021 , 6, 925-937	9.2	7
333	Self-Powered Electrochromic Readout of Potentiometric pH Electrodes. <i>Analytical Chemistry</i> , 2021 , 93, 4263-4269	7.8	6
332	Self-Powered Potentiometric Sensors with Memory. <i>ACS Sensors</i> , 2021 , 6, 3650-3656	9.2	3
331	Electronic control of constant potential capacitive readout of ion-selective electrodes for high precision sensing. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130282	8.5	3
330	Ionic strength-independent potentiometric cation concentration sensing on paper using a tetrabutylammonium-based reference electrode. <i>Sensors and Actuators B: Chemical</i> , 2021 , 346, 130527	8.5	3
329	Advanced multichannel submersible probe for autonomous high-resolution in situ monitoring of the cycling of the potentially bioavailable fraction of a range of trace metals. <i>Chemosphere</i> , 2021 , 282, 131014	8.4	4
328	Unbiased Selectivity Coefficients of Potentiometric Sensors Using Thin Membrane Layers. <i>Electroanalysis</i> , 2021 , 33, 1225-1232	3	

327	Optical Sensing with a Potentiometric Sensing Array by Prussian Blue Film Integrated Closed Bipolar Electrodes. <i>Analytical Chemistry</i> , 2020 , 92, 9138-9145	7.8	15
326	Colorimetric absorbance mapping and quantitation on paper-based analytical devices. <i>Lab on A Chip</i> , 2020 , 20, 1441-1448	7.2	23
325	Potentiometric Sensor Array with Multi-Nernstian Slope. <i>Analytical Chemistry</i> , 2020 , 92, 2926-2930	7.8	11
324	Direct Potentiometric Sensing of Anion Concentration (Not Activity). <i>ACS Sensors</i> , 2020 , 5, 313-318	9.2	7
323	Ultrasensitive Seawater pH Measurement by Capacitive Readout of Potentiometric Sensors. <i>ACS Sensors</i> , 2020 , 5, 650-654	9.2	18
322	Spatial variability of arsenic speciation in the Gironde Estuary: Emphasis on dynamic (potentially bioavailable) inorganic arsenite and arsenate fractions. <i>Marine Chemistry</i> , 2020 , 223, 103804	3.7	8
321	A Solid-State Reference Electrode Based on a Self-Referencing Pulstrode. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2294-2298	16.4	15
320	Thin Layer Membrane Systems as Rapid Development Tool for Potentiometric Solid Contact Ion-selective Electrodes. <i>Electroanalysis</i> , 2020 , 32, 799-804	3	7
319	A Solid-State Reference Electrode Based on a Self-Referencing Pulstrode. <i>Angewandte Chemie</i> , 2020 , 132, 2314-2318	3.6	4
318	Emulsion Doping of Ionophores and Ion-Exchangers into Ion-Selective Electrode Membranes. <i>Analytical Chemistry</i> , 2020 , 92, 14319-14324	7.8	1
317	A Scientific Journey with Ionophore-based Sensors. <i>Chimia</i> , 2020 , 74, 569-576	1.3	1
316	Self-Powered Potentiometric Sensor Transduction to a Capacitive Electronic Component for Later Readout. <i>ACS Sensors</i> , 2020 , 5, 2909-2914	9.2	7
315	Rapid Constant Potential Capacitive Measurements with Solid-Contact Ion-Selective Electrodes Coupled to Electronic Capacitor. <i>Analytical Chemistry</i> , 2020 , 92, 14174-14180	7.8	14
314	Renewable magnetic ion-selective colorimetric microsensors based on surface modified polystyrene beads. <i>Analytica Chimica Acta</i> , 2020 , 1094, 136-141	6.6	2
313	Equipment-Free Detection of K on Microfluidic Paper-Based Analytical Devices Based on Exhaustive Replacement with Ionic Dye in Ion-selective Capillary Sensors. <i>ACS Sensors</i> , 2019 , 4, 670-677	9.2	36
312	Simplified Fabrication for Ion-Selective Optical Emulsion Sensor with Hydrophobic Solvatochromic Dye Transducer: A Cautionary Tale. <i>Analytical Chemistry</i> , 2019 , 91, 8973-8978	7.8	14
311	From Molecular and Emulsified Ion Sensors to Membrane Electrodes: Molecular and Mechanistic Sensor Design. <i>Accounts of Chemical Research</i> , 2019 , 52, 1400-1408	24.3	7
310	Electrogenerated Chemiluminescence for Chronopotentiometric Sensors. <i>Analytical Chemistry</i> , 2019 , 91, 4889-4895	7.8	22

309	Tunable Optical Sensing with PVC-Membrane-Based Ion-Selective Bipolar Electrodes. <i>ACS Sensors</i> , 2019 , 4, 1008-1016	9.2	13
308	Quantification of Colorimetric Data for Paper-Based Analytical Devices. <i>ACS Sensors</i> , 2019 , 4, 3093-3101	9.2	36
307	Equipment-free Detection of K on Paper. <i>Chimia</i> , 2019 , 73, 944	1.3	
306	A tunable detection range of ion-selective nano-optodes by controlling solvatochromic dye transducer lipophilicity. <i>Chemical Communications</i> , 2019 , 55, 12539-12542	5.8	11
305	Paper-supported thin-layer ion transfer voltammetry for ion detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 280, 69-76	8.5	12
304	Potentiometric Sensing. <i>Analytical Chemistry</i> , 2019 , 91, 2-26	7.8	138
303	In Situ Detection of Macronutrients and Chloride in Seawater by Submersible Electrochemical Sensors. <i>Analytical Chemistry</i> , 2018 , 90, 4702-4710	7.8	38
302	Ion Transfer Voltammetry in Polyurethane Thin Films Based on Functionalised Cationic [6]Helicenes for Carbonate Detection. <i>Electroanalysis</i> , 2018 , 30, 1378-1385	3	12
301	Ion Transfer Voltammetry at Thin Films Based on Functionalized Cationic [6]Helicenes. <i>Electroanalysis</i> , 2018 , 30, 650-657	3	16
300	Surface-Doped Polystyrene Microsensors Containing Lipophilic Solvatochromic Dye Transducers. <i>Chemistry - A European Journal</i> , 2018 , 24, 7921-7925	4.8	9
299	Selective Distance-Based K Quantification on Paper-Based Microfluidics. <i>Analytical Chemistry</i> , 2018 , 90, 4894-4900	7.8	69
298	Fluorinated tripodal receptors for potentiometric chloride detection in biological fluids. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 70-76	11.8	23
297	Electron Hopping between Fe 3 d States in Ethynylferrocene-doped Poly(Methyl Methacrylate)-poly(Decyl Methacrylate) Copolymer Membranes. <i>Electroanalysis</i> , 2018 , 30, 596-601	3	2
296	Agarose hydrogel containing immobilized pH buffer microemulsion without increasing permselectivity. <i>Talanta</i> , 2018 , 177, 191-196	6.2	1
295	Ion-Selective Electrodes 2018 , 231-231		3
294	Colorimetric ionophore-based coextraction titrimetry of potassium ions. <i>Analytica Chimica Acta</i> , 2018 , 1029, 37-43	6.6	6
293	Ion-exchange Microemulsions for Eliminating Dilute Interferences in Potentiometric Determinations. <i>Electroanalysis</i> , 2018 , 30, 2462-2466	3	2
292	Nucleic acid hybridization on an electrically reconfigurable network of gold-coated magnetic nanoparticles enables microRNA detection in blood. <i>Nature Nanotechnology</i> , 2018 , 13, 1066-1071	28.7	159

291	Capacitive Model for Coulometric Readout of Ion-Selective Electrodes. <i>Analytical Chemistry</i> , 2018 , 90, 8700-8707	7.8	34
290	Describing Ion Exchange at Membrane Electrodes for Ions of Different Charge. <i>Electroanalysis</i> , 2018 , 30, 633-640	3	4
289	Light-Addressable Ion Sensing for Real-Time Monitoring of Extracellular Potassium. <i>Angewandte Chemie</i> , 2018 , 130, 17043-17047	3.6	2
288	Light-Addressable Ion Sensing for Real-Time Monitoring of Extracellular Potassium. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16801-16805	16.4	20
287	In-Line Seawater Phosphate Detection with Ion-Exchange Membrane Reagent Delivery. <i>ACS Sensors</i> , 2018 , 3, 2455-2462	9.2	10
286	Fast Potentiometric CO Sensor for High-Resolution in Situ Measurements in Fresh Water Systems. <i>Environmental Science & Technology</i> , 2018 , 52, 11259-11266	10.3	10
285	Electrochemically Switchable Polymeric Membrane Ion-Selective Electrodes. <i>Analytical Chemistry</i> , 2018 , 90, 7591-7599	7.8	17
284	Colorimetric Readout for Potentiometric Sensors with Closed Bipolar Electrodes. <i>Analytical Chemistry</i> , 2018 , 90, 6376-6379	7.8	31
283	Welcome to the First Anniversary Issue of ACS Sensors. <i>ACS Sensors</i> , 2017 , 2, 1-2	9.2	
282	Electrochemical Mechanism of Ferrocene-Based Redox Molecules in Thin Film Membrane Electrodes. <i>Electrochimica Acta</i> , 2017 , 238, 357-367	6.7	23
281	Ionophore-Based Titrimetric Detection of Alkali Metal Ions in Serum. <i>ACS Sensors</i> , 2017 , 2, 606-612	9.2	19
280	Reflecting on How ACS Sensors Can Help Advance the Field of Sensing. <i>ACS Sensors</i> , 2017 , 2, 455-456	9.2	
279	Robust Solid-Contact Ion Selective Electrodes for High-Resolution In Situ Measurements in Fresh Water Systems. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 286-291	11	36
278	Voltammetric Thin-Layer Ionophore-Based Films: Part 2. Semi-Empirical Treatment. <i>Analytical Chemistry</i> , 2017 , 89, 595-602	7.8	14
277	In-Line Acidification for Potentiometric Sensing of Nitrite in Natural Waters. <i>Analytical Chemistry</i> , 2017 , 89, 571-575	7.8	30
276	Voltammetric Thin-Layer Ionophore-Based Films: Part 1. Experimental Evidence and Numerical Simulations. <i>Analytical Chemistry</i> , 2017 , 89, 586-594	7.8	29
275	In Situ Detection of Species Relevant to the Carbon Cycle in Seawater with Submersible Potentiometric Probes. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 410-415	11	41
274	August 2017: Two Years of Submissions. <i>ACS Sensors</i> , 2017 , 2, 1068-1069	9.2	

273	Celebrating Electrochemical Sensors at the 2017 Matrafured Meeting. <i>ACS Sensors</i> , 2017 , 2, 854	9.2	
272	Electrochemical ion transfer mediated by a lipophilic Os(ii)/Os(iii) dinonyl bipyridyl probe incorporated in thin film membranes. <i>Chemical Communications</i> , 2017 , 53, 10757-10760	5.8	14
271	Time-Dependent Determination of Unbiased Selectivity Coefficients of Ion-Selective Electrodes for Multivalent Ions. <i>Analytical Chemistry</i> , 2017 , 89, 13441-13448	7.8	6
270	Overcoming Pitfalls in Boundary Elements Calculations with Computer Simulations of Ion Selective Membrane Electrodes. <i>Analytical Chemistry</i> , 2017 , 89, 7828-7831	7.8	15
269	Environmental water analysis with membrane electrodes. <i>Current Opinion in Electrochemistry</i> , 2017 , 3, 97-105	7.2	28
268	Local Acidification of Membrane Surfaces for Potentiometric Sensing of Anions in Environmental Samples. <i>ACS Sensors</i> , 2016 , 1, 48-54	9.2	22
267	Potassium ion-selective fluorescent and pH independent nanosensors based on functionalized polyether macrocycles. <i>Chemical Science</i> , 2016 , 7, 525-533	9.4	44
266	Reversible pH-independent optical potassium sensor with lipophilic solvatochromic dye transducer on surface modified microporous nylon. <i>Chemical Communications</i> , 2016 , 52, 14254-14257	5.8	20
265	Electrochemical Ion Transfer with Thin Films of Poly(3-octylthiophene). <i>Analytical Chemistry</i> , 2016 , 88, 6939-46	7.8	19
264	Selective Imaging of Late Endosomes with a pH-Sensitive Diazaoxatriangulene Fluorescent Probe. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1752-5	16.4	60
263	Electroanalysis with Membrane Electrodes and Liquid-Liquid Interfaces. <i>Analytical Chemistry</i> , 2016 , 88, 395-413	7.8	75
262	Phenytoin speciation with potentiometric and chronopotentiometric ion-selective membrane electrodes. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 114-20	11.8	12
261	Alkalinization of Thin Layer Samples with a Selective Proton Sink Membrane Electrode for Detecting Carbonate by Carbonate-Selective Electrodes. <i>Analytical Chemistry</i> , 2016 , 88, 3444-8	7.8	10
260	Welcome to ACS Sensors. <i>ACS Sensors</i> , 2016 , 1, 1-2	9.2	
259	Determination of pK(a) Values of Hydrophobic Colorimetric pH Sensitive Probes in Nanospheres. <i>Analytical Chemistry</i> , 2016 , 88, 3015-8	7.8	21
258	Flow Chronopotentiometry with Ion-Selective Membranes for Cation, Anion, and Polyion Detection. <i>Analytical Chemistry</i> , 2016 , 88, 3945-52	7.8	7
257	Ion-Selective Optical Nanosensors Based on Solvatochromic Dyes of Different Lipophilicity: From Bulk Partitioning to Interfacial Accumulation. <i>ACS Sensors</i> , 2016 , 1, 516-520	9.2	36
256	Ionophore-Based Voltammetric Ion Activity Sensing with Thin Layer Membranes. <i>Analytical Chemistry</i> , 2016 , 88, 1654-60	7.8	43

255	Can Calibration-Free Sensors Be Realized?. <i>ACS Sensors</i> , 2016 , 1, 838-841	9.2	32
254	Evidence of double layer/capacitive charging in carbon nanomaterial-based solid contact polymeric ion-selective electrodes. <i>Chemical Communications</i> , 2016 , 52, 9703-6	5.8	19
253	Complexometric titrations: new reagents and concepts to overcome old limitations. <i>Analyst, The</i> , 2016 , 141, 4252-61	5	15
252	Polyurethane Ionophore-Based Thin Layer Membranes for Voltammetric Ion Activity Sensing. <i>Analytical Chemistry</i> , 2016 , 88, 5649-54	7.8	41
251	Should ACS Sensors Publish Papers on Fluorescent Sensors for Metal Ions at All?. <i>ACS Sensors</i> , 2016 , 1, 324-325	9.2	2
250	Anion-exchange nanospheres as titration reagents for anionic analytes. <i>Analytical Chemistry</i> , 2015 , 87, 8347-52	7.8	7
249	Antifouling membrane integrated renewable gold microelectrode for in situ detection of As(III). <i>Analytical Methods</i> , 2015 , 7, 7503-7510	3.2	8
248	Tandem electrochemical desalination-potentiometric nitrate sensing for seawater analysis. <i>Analytical Chemistry</i> , 2015 , 87, 8084-9	7.8	38
247	Thin Layer Ionophore-Based Membrane for Multianalyte Ion Activity Detection. <i>Analytical Chemistry</i> , 2015 , 87, 7729-37	7.8	62
246	Direct arsenic(III) sensing by a renewable gold plated Ir-based microelectrode. <i>Analyst, The</i> , 2015 , 140, 3526-34	5	27
245	Charged solvatochromic dyes as signal transducers in pH independent fluorescent and colorimetric ion selective nanosensors. <i>Analytical Chemistry</i> , 2015 , 87, 9954-9	7.8	43
244	Determination of Effective Stability Constants of Ion-Carrier Complexes in Ion Selective Nanospheres with Charged Solvatochromic Dyes. <i>Analytical Chemistry</i> , 2015 , 87, 11587-91	7.8	18
243	All-solid-state potentiometric sensors with a multiwalled carbon nanotube inner transducing layer for anion detection in environmental samples. <i>Analytical Chemistry</i> , 2015 , 87, 8640-5	7.8	85
242	A Miniature Wastewater Cleaning Plant to Demonstrate Primary Treatment in the Classroom. <i>Journal of Chemical Education</i> , 2015 , 92, 1889-1891	2.4	3
241	Coulometric calcium pump for thin layer sample titrations. <i>Analytical Chemistry</i> , 2015 , 87, 10125-30	7.8	13
240	Transportation and Accumulation of Redox Active Species at the Buried Interfaces of Plasticized Membrane Electrodes. <i>Langmuir</i> , 2015 , 31, 10599-609	4	10
239	In Situ Ammonium Profiling Using Solid-Contact Ion-Selective Electrodes in Eutrophic Lakes. <i>Analytical Chemistry</i> , 2015 , 87, 11990-7	7.8	36
238	Solvatochromic Dyes as pH-Independent Indicators for Ionophore Nanosphere-Based Complexometric Titrations. <i>Analytical Chemistry</i> , 2015 , 87, 12318-23	7.8	13

237	Thin-Layer Chemical Modulations by a Combined Selective Proton Pump and pH Probe for Direct Alkalinity Detection. <i>Angewandte Chemie</i> , 2015 , 127, 8228-8231	3.6	12
236	Thin-Layer Chemical Modulations by a Combined Selective Proton Pump and pH Probe for Direct Alkalinity Detection. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8110-3	16.4	22
235	Potentiometric sensing array for monitoring aquatic systems. <i>Environmental Sciences: Processes and Impacts</i> , 2015 , 17, 906-14	4.3	26
234	Characterization of Salophen Co(III) Acetate Ionophore for Nitrite Recognition. <i>Electrochimica Acta</i> , 2015 , 179, 16-23	6.7	8
233	Potassium Sensitive Optical Nanosensors Containing Voltage Sensitive Dyes. <i>Chimia</i> , 2015 , 69, 196-8	1.3	4
232	Thin Layer Samples Controlled by Dynamic Electrochemistry. <i>Chimia</i> , 2015 , 69, 203-6	1.3	17
231	GalvaPot, a custom-made combination galvanostat/potentiostat and high impedance potentiometer for decentralized measurements of ionophore-based electrodes. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 631-639	8.5	10
230	Ion selective optodes: from the bulk to the nanoscale. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 3899-910	4.4	97
229	Ion-selective optode nanospheres as heterogeneous indicator reagents in complexometric titrations. <i>Analytical Chemistry</i> , 2015 , 87, 2827-31	7.8	18
228	Paper-based thin-layer coulometric sensor for halide determination. <i>Analytical Chemistry</i> , 2015 , 87, 1981-90	7.0	72
227	Thin Layer Coulometry of Nitrite with Ion-Selective Membranes. <i>Electroanalysis</i> , 2015 , 27, 609-615	3	7
226	Concanavalin A electrochemical sensor based on the surface blocking principle at an ion-selective polymeric membrane. <i>Mikrochimica Acta</i> , 2015 , 182, 129-137	5.8	14
225	Chemical Modification of Polymer Ion-Selective Membrane Electrode Surfaces. <i>Electroanalysis</i> , 2014 , 26, 1121-1131	3	27
224	Enhancing ion-selective polymeric membrane electrodes by instrumental control. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 53, 98-105	14.6	45
223	Photocurrent generation based on a light-driven proton pump in an artificial liquid membrane. <i>Nature Chemistry</i> , 2014 , 6, 202-7	17.6	116
222	Potentiometric response from ion-selective nanospheres with voltage-sensitive dyes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16465-8	16.4	34
221	Exhaustive thin-layer cyclic voltammetry for absolute multianalyte halide detection. <i>Analytical Chemistry</i> , 2014 , 86, 11387-95	7.8	28
220	Ionophore-based ion-exchange emulsions as novel class of complexometric titration reagents. <i>Chemical Communications</i> , 2014 , 50, 12659-61	5.8	21

219	Potassium-selective optical microsensors based on surface modified polystyrene microspheres. <i>Chemical Communications</i> , 2014 , 50, 4592-5	5.8	29
218	Creating electrochemical gradients by light: from bio-inspired concepts to photoelectric conversion. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19781-9	3.6	18
217	pH independent nano-optode sensors based on exhaustive ion-selective nanospheres. <i>Analytical Chemistry</i> , 2014 , 86, 2853-6	7.8	69
216	Chronopotentiometry of pure electrolytes with anion-exchange donnan exclusion membranes. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 731, 100-106	4.1	7
215	Ionophore-based ion-selective optical nanosensors operating in exhaustive sensing mode. <i>Analytical Chemistry</i> , 2014 , 86, 8770-5	7.8	43
214	Chronopotentiometric carbonate detection with all-solid-state ionophore-based electrodes. <i>Analytical Chemistry</i> , 2014 , 86, 6307-14	7.8	25
213	Camping Burner-Based Flame Emission Spectrometer for Classroom Demonstrations. <i>Journal of Chemical Education</i> , 2014 , 91, 1655-1660	2.4	5
212	Visible light induced photoacid generation within plasticized PVC membranes for copper (II) ion extraction. <i>Sensors and Actuators B: Chemical</i> , 2014 , 204, 807-810	8.5	3
211	Photoelectric conversion based on proton-coupled electron transfer reactions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7857-60	16.4	23
210	Evaluation of Egorov's improved separate solution method for determination of low selectivity coefficients by numerical simulation. <i>Analytical Chemistry</i> , 2014 , 86, 8021-4	7.8	15
209	A low-cost thin layer coulometric microfluidic device based on an ion-selective membrane for calcium determination. <i>Analyst, The</i> , 2014 , 139, 48-51	5	15
208	Light-controlled reversible release and uptake of potassium ions from ion-exchanging nanospheres. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2666-70	9.5	25
207	Direct alkalinity detection with ion-selective chronopotentiometry. <i>Analytical Chemistry</i> , 2014 , 86, 6461-70	7.8	23
206	Counter electrode based on an ion-exchanger Donnan exclusion membrane for bioelectroanalysis. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 64-9	11.8	7
205	Thin layer coulometry based on ion-exchanger membranes for heparin detection in undiluted human blood. <i>Analytical Chemistry</i> , 2014 , 86, 1357-60	7.8	18
204	Advancing Schwarzenbach's Complexometry: Nano-scale Titration Reagents Based on Heterogeneous Reactions. <i>Chimia</i> , 2014 , 68, 899	1.3	
203	Environmental Sensing of Aquatic Systems at the University of Geneva. <i>Chimia</i> , 2014 , 68, 772-7	1.3	1
202	Ionophore-based optical sensors. <i>Annual Review of Analytical Chemistry</i> , 2014 , 7, 483-512	12.5	69

201	Nitrite-Selective Electrode Based On Cobalt(II) tert-Butyl-Salophen Ionophore. <i>Electroanalysis</i> , 2014 , 26, 473-480	3	18
200	Potentiometric Sensors. <i>Nanostructure Science and Technology</i> , 2014 , 193-238	0.9	5
199	Transport and accumulation of ferrocene tagged poly(vinyl chloride) at the buried interfaces of plasticized membrane electrodes. <i>Analyst, The</i> , 2013 , 138, 4266-9	5	11
198	Non-Severinghaus potentiometric dissolved CO ₂ sensor with improved characteristics. <i>Analytical Chemistry</i> , 2013 , 85, 1332-6	7.8	37
197	Molecularly imprinted polymer microspheres containing photoswitchable spiropyran-based binding sites. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8537-45	9.5	56
196	All solid state chronopotentiometric ion-selective electrodes based on ferrocene functionalized PVC. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 709, 118-125	4.1	19
195	Ultrasmall fluorescent ion-exchanging nanospheres containing selective ionophores. <i>Analytical Chemistry</i> , 2013 , 85, 9932-8	7.8	51
194	Dynamic electrochemistry with ionophore based ion-selective membranes. <i>RSC Advances</i> , 2013 , 3, 254613,7	3.7	39
193	Oxazinoindolines as fluorescent H ⁺ turn-on chromoionophores for optical and electrochemical ion sensors. <i>Analytical Chemistry</i> , 2013 , 85, 7434-40	7.8	22
192	PVC-Based Ion-Selective Electrodes with Enhanced Biocompatibility by Surface Modification with Click Chemistry. <i>Electroanalysis</i> , 2013 , 25, 1840-1846	3	25
191	Evidence for a surface confined ion-to-electron transduction reaction in solid-contact ion-selective electrodes based on poly(3-octylthiophene). <i>Analytical Chemistry</i> , 2013 , 85, 10495-502	7.8	39
190	A label-free potentiometric sensor principle for the detection of antibody-antigen interactions. <i>Analytical Chemistry</i> , 2013 , 85, 4770-6	7.8	33
189	Potentiometric sensors with ion-exchange Donnan exclusion membranes. <i>Analytical Chemistry</i> , 2013 , 85, 6208-12	7.8	41
188	Photoresponsive ion extraction/release systems: dynamic ion optodes for calcium and sodium based on photochromic spiropyran. <i>Analytical Chemistry</i> , 2013 , 85, 2983-90	7.8	32
187	Detecting Heparin in Whole Blood for Point of Care Anticoagulation Control During Surgery. <i>Chimia</i> , 2013 , 67, 350-350	1.3	6
186	Towards Ion-Selective Membranes with Electrogenated Chemiluminescence Detection: Visualizing Selective Ru(bpy) ₃ ²⁺ Transport Across a Plasticized Poly(vinyl chloride) Membrane. <i>Electroanalysis</i> , 2012 , 24, 61-68	3	3
185	Reversible photodynamic chloride-selective sensor based on photochromic spiropyran. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16929-32	16.4	116
184	Direct detection of acidity, alkalinity, and pH with membrane electrodes. <i>Analytical Chemistry</i> , 2012 , 84, 10165-9	7.8	32

183	Reversible Sensing of the Anticoagulant Heparin with Protamine Permselective Membranes. <i>Angewandte Chemie</i> , 2012 , 124, 12743-12746	3.6	4
182	Reversible sensing of the anticoagulant heparin with protamine permselective membranes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12575-8	16.4	51
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17	Lipophilicity of tetraphenylborate derivatives as anionic sites in neutral carrier-based solvent polymeric membranes and lifetime of corresponding ion-selective electrochemical and optical sensors. <i>Analytica Chimica Acta</i> , 1995 , 309, 7-17	6.6	77
16	Applicability of the phase boundary potential model to the mechanistic understanding of solvent polymeric membrane-based ion-selective electrodes. <i>Electroanalysis</i> , 1995 , 7, 817-822	3	51
15	Polymer membrane-based polyion sensors: Development, response mechanism, and bioanalytical applications. <i>Electroanalysis</i> , 1995 , 7, 823-829	3	29
14	Optimum composition of neutral carrier based pH electrodes. <i>Analytica Chimica Acta</i> , 1994 , 295, 253-262	6.6	96
13	Selectivity of polymer membrane-based ion-selective electrodes: self-consistent model describing the potentiometric response in mixed ion solutions of different charge. <i>Analytical Chemistry</i> , 1994 , 66, 3021-30	7.8	126
12	Ionic additives for ion-selective electrodes based on electrically charged carriers. <i>Analytical Chemistry</i> , 1994 , 66, 391-398	7.8	370
11	Response mechanism of polymer membrane-based potentiometric polyion sensors. <i>Analytical Chemistry</i> , 1994 , 66, 2250-9	7.8	158
10	Anion-selective membrane electrodes based on metalloporphyrins: The influence of lipophilic anionic and cationic sites on potentiometric selectivity. <i>Talanta</i> , 1994 , 41, 881-90	6.2	218
9	Nitrite-selective microelectrodes. <i>Talanta</i> , 1994 , 41, 1001-5	6.2	37
8	Determination of complex formation constants of neutral cation-selective ionophores in solvent polymeric membranes. <i>Analytical Chemistry</i> , 1994 , 66, 516-521	7.8	78
7	Chemically selective optode membranes and optical detection modes 1993 , 1796, 371		1
6	Detection limit of ion-selective bulk optodes and corresponding electrodes. <i>Analytica Chimica Acta</i> , 1993 , 282, 265-271	6.6	56
5	Synthesis and characterization of neutral hydrogen ion-selective chromoionophores for use in bulk optodes. <i>Analytica Chimica Acta</i> , 1993 , 278, 211-225	6.6	128
4	Lipophilic and immobilized anionic additives in solvent polymeric membranes of cation-selective chemical sensors. <i>Analytica Chimica Acta</i> , 1993 , 280, 197-208	6.6	347

3	Optical sensors based on neutral carriers. <i>Sensors and Actuators B: Chemical</i> , 1993 , 11, 1-8	8.5	22
2	Lead-selective bulk optodes based on neutral ionophores with subnanomolar detection limits. <i>Analytical Chemistry</i> , 1992 , 64, 1534-1540	7.8	179
1	Selectivity of ion-sensitive bulk optodes. <i>Analytical Chemistry</i> , 1992 , 64, 1805-1812	7.8	188