Eric Bakker

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69 19,723 127 344 h-index g-index citations papers 21,313 7.5 7.25 374 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
344	Carrier-Based Ion-Selective Electrodes and Bulk Optodes. 1. General Characteristics. <i>Chemical Reviews</i> , 1997 , 97, 3083-3132	68.1	1884
343	Carrier-Based Ion-Selective Electrodes and Bulk Optodes. 2. Ionophores for Potentiometric and Optical Sensors. <i>Chemical Reviews</i> , 1998 , 98, 1593-1688	68.1	1584
342	Selectivity of potentiometric ion sensors. <i>Analytical Chemistry</i> , 2000 , 72, 1127-33	7.8	633
341	Ionic additives for ion-selective electrodes based on electrically charged carriers. <i>Analytical Chemistry</i> , 1994 , 66, 391-398	7.8	370
340	Electrochemical sensors. <i>Analytical Chemistry</i> , 2006 , 78, 3965-84	7.8	364
339	Electrochemical sensors. <i>Analytical Chemistry</i> , 2002 , 74, 2781-800	7.8	359
338	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
337	Electrochemical sensors. <i>Analytical Chemistry</i> , 2004 , 76, 3285-98	7.8	333
336	Determination of Unbiased Selectivity Coefficients of Neutral Carrier-Based Cation-Selective Electrodes. <i>Analytical Chemistry</i> , 1997 , 69, 1061-1069	7.8	286
335	Modern potentiometry. Angewandte Chemie - International Edition, 2007, 46, 5660-8	16.4	237
334	Polymer Membrane Ion-Selective Electrodes What are the Limits?. <i>Electroanalysis</i> , 1999 , 11, 915-933	3	234
333	Potentiometric sensors for trace-level analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2005 , 24, 199-207	14.6	226
332	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
331	Lowering the Detection Limit of Solvent Polymeric Ion-Selective Membrane Electrodes. 2. Influence of Composition of Sample and Internal Electrolyte Solution. <i>Analytical Chemistry</i> , 1999 , 71, 1210-1214	7.8	210
330	Rational design of potentiometric trace level ion sensors. A Ag+-selective electrode with a 100 ppt detection limit. <i>Analytical Chemistry</i> , 2002 , 74, 4027-36	7.8	195
329	Selectivity of liquid membrane ion-selective electrodes. <i>Electroanalysis</i> , 1997 , 9, 7-12	3	189
328	Selectivity of ion-sensitive bulk optodes. <i>Analytical Chemistry</i> , 1992 , 64, 1805-1812	7.8	188

327	Lowering the Detection Limit of Solvent Polymeric Ion-Selective Electrodes. 1. Modeling the Influence of Steady-State Ion Fluxes. <i>Analytical Chemistry</i> , 1999 , 71, 1204-1209	7.8	185	
326	Solid contact potentiometric sensors for trace level measurements. <i>Analytical Chemistry</i> , 2006 , 78, 131	8 - 28	180	
325	Lead-selective bulk optodes based on neutral ionophores with subnanomolar detection limits. <i>Analytical Chemistry</i> , 1992 , 64, 1534-1540	7.8	179	
324	Solid-contact polymeric membrane electrodes with detection limits in the subnanomolar range. <i>Analytica Chimica Acta</i> , 2004 , 523, 53-59	6.6	178	
323	Effect of Transmembrane Electrolyte Diffusion on the Detection Limit of Carrier-Based Potentiometric Ion Sensors. <i>Analytical Chemistry</i> , 1998 , 70, 303-309	7.8	165	
322	Determination of complex formation constants of lipophilic neutral ionophores in solvent polymeric membranes with segmented sandwich membranes. <i>Analytical Chemistry</i> , 1999 , 71, 5279-87	7.8	160	
321	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	
320	Response mechanism of polymer membrane-based potentiometric polyion sensors. <i>Analytical Chemistry</i> , 1994 , 66, 2250-9	7.8	158	
319	Potentiometric polymeric membrane electrodes for measurement of environmental samples at trace levels: new requirements for selectivities and measuring protocols, and comparison with ICPMS. <i>Analytical Chemistry</i> , 2001 , 73, 343-51	7.8	156	
318	The phase-boundary potential model. <i>Talanta</i> , 2004 , 63, 3-20	6.2	142	
317	Potentiometric biosensing of proteins with ultrasensitive ion-selective microelectrodes and nanoparticle labels. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13676-7	16.4	139	
316	Determination of Improved Selectivity Coefficients of Polymer Membrane Ion-Selective Electrodes by Conditioning with a Discriminated Ion. <i>Journal of the Electrochemical Society</i> , 1996 , 143, L83-L85	3.9	138	
315	Potentiometric Sensing. <i>Analytical Chemistry</i> , 2019 , 91, 2-26	7.8	138	
314	Reversible electrochemical detection of nonelectroactive polyions. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11192-3	16.4	131	
313	Aptamer-based potentiometric measurements of proteins using ion-selective microelectrodes. <i>Analytical Chemistry</i> , 2008 , 80, 707-12	7.8	129	
312	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	
311	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	
310	Miniature sodium-selective ion-exchange optode with fluorescent pH chromoionophores and tunable dynamic range. <i>Analytical Chemistry</i> , 1996 , 68, 2656-62	7.8	117	

309	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
308	Reversible photodynamic chloride-selective sensor based on photochromic spiropyran. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16929-32	16.4	116
307	Elimination of undesirable water layers in solid-contact polymeric ion-selective electrodes. <i>Analytical Chemistry</i> , 2008 , 80, 6731-40	7.8	112
306	Effect of lipophilic ion-exchanger leaching on the detection limit of carrier-based ion-selective electrodes. <i>Analytical Chemistry</i> , 2001 , 73, 5582-9	7.8	104
305	Fiber-optic microsensor array based on fluorescent bulk optode microspheres for the trace analysis of silver ions. <i>Analytical Chemistry</i> , 2005 , 77, 4706-12	7.8	100
304	Polyion-sensitive membrane electrodes for biomedical analysis. <i>Analytical Chemistry</i> , 1996 , 68, 168A-17	′5/A 8	100
303	Pulsed galvanostatic control of ionophore-based polymeric ion sensors. <i>Analytical Chemistry</i> , 2003 , 75, 4541-50	7.8	99
302	Ion sensors: current limits and new trends. <i>Analytica Chimica Acta</i> , 1999 , 393, 11-18	6.6	98
301	Ion selective optodes: from the bulk to the nanoscale. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 3899-910	4.4	97
300	Improving the detection limit of anion-selective electrodes: an iodide-selective membrane with a nanomolar detection limit. <i>Analytical Chemistry</i> , 2003 , 75, 3865-71	7.8	97
299	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. <i>Analytica Chimica Acta</i> , 2000 , 421, 207-220	6.6	96
298	Optimum composition of neutral carrier based pH electrodes. <i>Analytica Chimica Acta</i> , 1994 , 295, 253-26	52 6.6	96
297	Potentiometric detection of DNA hybridization. <i>Journal of the American Chemical Society</i> , 2008 , 130, 410-1	16.4	90
296	Potentiometry at trace levels. <i>TrAC - Trends in Analytical Chemistry</i> , 2001 , 20, 11-19	14.6	90
295	Potentiometry at trace levels in confined samples: ion-selective electrodes with subfemtomole detection limits. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8154-5	16.4	86
294	Carrier mechanism of acidic ionophores in solvent polymeric membrane ion-selective electrodes. <i>Analytical Chemistry</i> , 1995 , 67, 3123-3132	7.8	86
293	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
292	The new wave of ion-selective. <i>Analytical Chemistry</i> , 2002 , 74, 420A-426A	7.8	85

(2004-2006)

291	Approaches to Improving the Lower Detection Limit of Polymeric Membrane Ion-Selective Electrodes. <i>Electroanalysis</i> , 2006 , 18, 1254-1265	3	82
290	Ionophore-based membrane electrodes: new analytical concepts and non-classical response mechanisms. <i>Analytica Chimica Acta</i> , 2000 , 416, 121-137	6.6	82
289	Evidence of a water layer in solid-contact polymeric ion sensors. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 73-6	3.6	79
288	Novel potentiometric and optical silver ion-selective sensors with subnanomolar detection limits. <i>Analytica Chimica Acta</i> , 2006 , 572, 1-10	6.6	79
287	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
286	Plasticizer-Free Polymer Membrane Ion-Selective Electrodes Containing a Methacrylic Copolymer Matrix. <i>Electroanalysis</i> , 2002 , 14, 1375-1381	3	77
285	Potentiometric Cd2+-selective electrode with a detection limit in the low ppt range. <i>Analytica Chimica Acta</i> , 2001 , 440, 71-79	6.6	77
284	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
283	Potentiometric immunoassay with quantum dot labels. <i>Analytical Chemistry</i> , 2007 , 79, 5107-10	7.8	76
282	Electroanalysis with Membrane Electrodes and Liquid-Liquid Interfaces. <i>Analytical Chemistry</i> , 2016 , 88, 395-413	7.8	75
281	Plasticizer-free polymer containing a covalently immobilized Ca2+-selective ionophore for potentiometric and optical sensors. <i>Analytical Chemistry</i> , 2003 , 75, 3038-45	7.8	73
280	Paper-based thin-layer coulometric sensor for halide determination. <i>Analytical Chemistry</i> , 2015 , 87, 198	1 7 980	72
279	Selective Distance-Based K Quantification on Paper-Based Microfluidics. <i>Analytical Chemistry</i> , 2018 , 90, 4894-4900	7.8	69
278	pH independent nano-optode sensors based on exhaustive ion-selective nanospheres. <i>Analytical Chemistry</i> , 2014 , 86, 2853-6	7.8	69
277	Ionophore-based optical sensors. Annual Review of Analytical Chemistry, 2014, 7, 483-512	12.5	69
276	Chemical Kinetics of Gold Nanorod Growth in Aqueous CTAB Solutions. <i>Crystal Growth and Design</i> , 2011 , 11, 3375-3380	3.5	69
275	Nanoscale potentiometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2008 , 27, 612-618	14.6	69
274	Pulstrodes: triple pulse control of potentiometric sensors. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10548-9	16.4	69

273	General description of the simultaneous response of potentiometric ionophore-based sensors to ions of different charge. <i>Analytical Chemistry</i> , 1999 , 71, 1041-8	7.8	65
272	Response characteristics of a reversible electrochemical sensor for the polyion protamine. <i>Analytical Chemistry</i> , 2005 , 77, 5221-8	7.8	63
271	Thin Layer Ionophore-Based Membrane for Multianalyte Ion Activity Detection. <i>Analytical Chemistry</i> , 2015 , 87, 7729-37	7.8	62
270	Electrogenerated chemiluminescence for potentiometric sensors. <i>Journal of the American Chemical Society</i> , 2012 , 134, 205-7	16.4	61
269	Guidelines for Improving the Lower Detection Limit of Ion-Selective Electrodes: A Systematic Approach. <i>Electroanalysis</i> , 2007 , 19, 144-154	3	61
268	Selective Imaging of Late Endosomes with a pH-Sensitive Diazaoxatriangulene Fluorescent Probe. Journal of the American Chemical Society, 2016 , 138, 1752-5	16.4	60
267	Thin layer coulometry with ionophore based ion-selective membranes. <i>Analytical Chemistry</i> , 2010 , 82, 4537-42	7.8	60
266	Solid-contact potentiometric polymer membrane microelectrodes for the detection of silver ions at the femtomole level. <i>Sensors and Actuators B: Chemical</i> , 2006 , 121, 135-141	8.5	60
265	Response and Diffusion Behavior of Mobile and Covalently Immobilized H+-Ionophores in Polymeric Membrane Ion-Selective Electrodes. <i>Electroanalysis</i> , 2002 , 14, 1329-1338	3	59
264	Molecularly imprinted polymer microspheres containing photoswitchable spiropyran-based binding sites. <i>ACS Applied Materials & amp; Interfaces</i> , 2013 , 5, 8537-45	9.5	56
263	Detection limit of ion-selective bulk optodes and corresponding electrodes. <i>Analytica Chimica Acta</i> , 1993 , 282, 265-271	6.6	56
262	Quantitive binding constants of H(+)-selective chromoionophores and anion ionophores in solvent polymeric sensing membranes. <i>Talanta</i> , 2002 , 58, 909-18	6.2	55
261	Mass-produced lonophore-based fluorescent microspheres for trace level determination of lead ions. <i>Analytical Chemistry</i> , 2002 , 74, 5251-6	7.8	53
260	Multicolor quantum dot encoding for polymeric particle-based optical ion sensors. <i>Analytical Chemistry</i> , 2007 , 79, 3716-23	7.8	52
259	Extraction Thermodynamics of Polyanions into Plasticized Polymer Membranes Doped with Lipophilic Ion Exchangers: A Potentiometric Study. <i>Macromolecules</i> , 1995 , 28, 5834-5840	5.5	52
258	Ultrasmall fluorescent ion-exchanging nanospheres containing selective ionophores. <i>Analytical Chemistry</i> , 2013 , 85, 9932-8	7.8	51
257	Reversible sensing of the anticoagulant heparin with protamine permselective membranes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12575-8	16.4	51
256	Optical determination of ionophore diffusion coefficients in plasticized poly(vinyl chloride) sensing films. <i>Analytica Chimica Acta</i> , 2004 , 511, 91-95	6.6	51

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255	Monodisperse plasticized poly(vinyl chloride) fluorescent microspheres for selective ionophore-based sensing and extraction. <i>Analytical Chemistry</i> , 2001 , 73, 6083-7	7.8	51	
254	Spectroscopic in Situ Imaging of Acid Coextraction Processes in Solvent Polymeric Ion-Selective Electrode and Optode Membranes. <i>Analytical Chemistry</i> , 1998 , 70, 1176-1181	7.8	51	
253	Ion-Selective Electrodes Based on Two Competitive Ionophores for Determining Effective Stability Constants of Ion©arrier Complexes in Solvent Polymeric Membranes. <i>Analytical Chemistry</i> , 1998 , 70, 295-302	7.8	51	
252	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	
251	Ferrocene bound poly(vinyl chloride) as ion to electron transducer in electrochemical ion sensors. <i>Analytical Chemistry</i> , 2010 , 82, 6887-94	7.8	49	
250	Selectivity behavior and multianalyte detection capability of voltammetric ionophore-based plasticized polymeric membrane sensors. <i>Analytical Chemistry</i> , 2001 , 73, 80-90	7.8	49	
249	Renewable pH cross-sensitive potentiometric heparin sensors with incorporated electrically charged H+ ionophores. <i>Analytical Chemistry</i> , 1999 , 71, 4614-21	7.8	49	
248	Spatial and spectral imaging of single micrometer-sized solvent cast fluorescent plasticized poly(vinyl chloride) sensing particles. <i>Analytical Chemistry</i> , 2001 , 73, 315-20	7.8	48	
247	Enhancing ion-selective polymeric membrane electrodes by instrumental control. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 53, 98-105	14.6	45	
246	A copolymerized dodecacarborane anion as covalently attached cation exchanger in ion-selective sensors. <i>Analytical Chemistry</i> , 2003 , 75, 6002-10	7.8	45	
245	Dynamic diffusion model for tracing the real-time potential response of polymeric membrane ion-selective electrodes. <i>Analytical Chemistry</i> , 2004 , 76, 6402-9	7.8	45	
244	Cross-linked dodecyl acrylate microspheres: novel matrices for plasticizer-free optical ion sensing. <i>Analytica Chimica Acta</i> , 2001 , 442, 25-33	6.6	45	
243	Detection limit of polymeric membrane potentiometric ion sensors: how can we go down to trace levels?. <i>Analytica Chimica Acta</i> , 1999 , 397, 103-111	6.6	45	
242	Potassium ion-selective fluorescent and pH independent nanosensors based on functionalized polyether macrocycles. <i>Chemical Science</i> , 2016 , 7, 525-533	9.4	44	
241	Mechanistic insights into the development of optical chloride sensors based on the [9]mercuracarborand-3 ionophore. <i>Analytical Chemistry</i> , 2003 , 75, 133-40	7.8	44	
240	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	
239	Ionophore-Based Voltammetric Ion Activity Sensing with Thin Layer Membranes. <i>Analytical Chemistry</i> , 2016 , 88, 1654-60	7.8	43	
238	Ionophore-based ion-selective optical nanosensors operating in exhaustive sensing mode. <i>Analytical Chemistry</i> , 2014 , 86, 8770-5	7.8	43	

237	Direct optical carbon dioxide sensing based on a polymeric film doped with a selective molecular tweezer-type ionophore. <i>Analytical Chemistry</i> , 2012 , 84, 3163-9	7.8	43
236	Hydrophobic Membranes as Liquid Junction-Free Reference Electrodes. <i>Electroanalysis</i> , 1999 , 11, 788-7	7932	42
235	Voltammetric and amperometric transduction for solvent polymeric membrane ion sensors. <i>Analytical Chemistry</i> , 1999 , 71, 3657-64	7.8	42
234	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
233	Potentiometric sensors with ion-exchange Donnan exclusion membranes. <i>Analytical Chemistry</i> , 2013 , 85, 6208-12	7.8	41
232	Direct sensing of total acidity by chronopotentiometric flash titrations at polymer membrane ion-selective electrodes. <i>Analytical Chemistry</i> , 2008 , 80, 3743-50	7.8	41
231	Polyurethane Ionophore-Based Thin Layer Membranes for Voltammetric Ion Activity Sensing. <i>Analytical Chemistry</i> , 2016 , 88, 5649-54	7.8	41
230	Calcium pulstrodes with 10-fold enhanced sensitivity for measurements in the physiological concentration range. <i>Analytical Chemistry</i> , 2006 , 78, 2744-51	7.8	40
229	Dynamic electrochemistry with ionophore based ion-selective membranes. RSC Advances, 2013, 3, 2546	5 1 3.7	39
228	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
227	Phosphate-selective fluorescent sensing microspheres based on uranyl salophene ionophores. <i>Analytica Chimica Acta</i> , 2008 , 614, 77-84	6.6	39
226	Selective coulometric release of ions from ion selective polymeric membranes for calibration-free titrations. <i>Analyst, The</i> , 2006 , 131, 895-900	5	39
225	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] [12H2O. <i>Journal of Solid State Chemistry</i> , 2002 , 168, 358-366	3.3	39
224	Tandem electrochemical desalination-potentiometric nitrate sensing for seawater analysis. <i>Analytical Chemistry</i> , 2015 , 87, 8084-9	7.8	38
223	In Situ Detection of Macronutrients and Chloride in Seawater by Submersible Electrochemical Sensors. <i>Analytical Chemistry</i> , 2018 , 90, 4702-4710	7.8	38
222	Imaging fiber microarray fluorescent ion sensors based on bulk optode microspheres. <i>Analytica Chimica Acta</i> , 2005 , 532, 61-69	6.6	38
221	Influence of lipophilic inert electrolytes on the selectivity of polymer membrane electrodes. <i>Analytical Chemistry</i> , 1998 , 70, 1686-91	7.8	38
220	Non-Severinghaus potentiometric dissolved CO2 sensor with improved characteristics. <i>Analytical Chemistry</i> , 2013 , 85, 1332-6	7.8	37

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219	Thin layer electrochemical extraction of non-redoxactive cations with an anion-exchanging conducting polymer overlaid with a selective membrane. <i>Chemical Communications</i> , 2009 , 5260-2	5.8	37	
218	Influence of nonionic surfactants on the potentiometric response of hydrogen ion-selective polymeric membrane electrodes. <i>Analytical Chemistry</i> , 1996 , 68, 1623-31	7.8	37	
217	Nitrite-selective microelectrodes. <i>Talanta</i> , 1994 , 41, 1001-5	6.2	37	
216	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	
215	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	
214	In Situ Ammonium Profiling Using Solid-Contact Ion-Selective Electrodes in Eutrophic Lakes. <i>Analytical Chemistry</i> , 2015 , 87, 11990-7	7.8	36	
213	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	
212	Membrane response model for ion-selective electrodes operated by controlled-potential thin-layer coulometry. <i>Analytical Chemistry</i> , 2011 , 83, 486-93	7.8	36	
211	Quantification of Colorimetric Data for Paper-Based Analytical Devices. ACS Sensors, 2019, 4, 3093-310)19.2	36	
21 0	Potentiometric Sensing. <i>Analytical Chemistry</i> , 2021 , 93, 72-102	7.8	36	
209	Amplified potentiometric transduction of DNA hybridization using ion-loaded liposomes. <i>Analyst, The,</i> 2010 , 135, 1618-23	5	35	
208	Beyond potentiometry: robust electrochemical ion sensor concepts in view of remote chemical sensing. <i>Talanta</i> , 2008 , 75, 629-35	6.2	35	
207	Capacitive Model for Coulometric Readout of Ion-Selective Electrodes. <i>Analytical Chemistry</i> , 2018 , 90, 8700-8707	7.8	34	
206	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	
205	A label-free potentiometric sensor principle for the detection of antibody-antigen interactions. <i>Analytical Chemistry</i> , 2013 , 85, 4770-6	7.8	33	
204	Elimination of dimer formation in InIIIporphyrin-based anion-selective membranes by covalent attachment of the ionophore. <i>Analytical Chemistry</i> , 2004 , 76, 4379-86	7.8	33	
203	Direct detection of acidity, alkalinity, and pH with membrane electrodes. <i>Analytical Chemistry</i> , 2012 , 84, 10165-9	7.8	32	
202	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	

201	Ion channel mimetic chronopotentiometric polymeric membrane ion sensor for surface-confined protein detection. <i>Langmuir</i> , 2009 , 25, 568-73	4	32
200	Improved detection limits and sensitivities of potentiometric titrations. <i>Analytical Chemistry</i> , 2001 , 73, 3768-75	7.8	32
199	Can Calibration-Free Sensors Be Realized?. ACS Sensors, 2016, 1, 838-841	9.2	32
198	Coulometric sodium chloride removal system with Nafion membrane for seawater sample treatment. <i>Analytical Chemistry</i> , 2012 , 84, 6158-65	7.8	31
197	Direct ion speciation analysis with ion-selective membranes operated in a sequential potentiometric/time resolved chronopotentiometric sensing mode. <i>Analytical Chemistry</i> , 2012 , 84, 8813	329	31
196	Plasticizer-free microspheres for ionophore-based sensing and extraction based on a methyl methacrylate-decyl methacrylate copolymer matrix. <i>Analytica Chimica Acta</i> , 2003 , 500, 127-136	6.6	31
195	Normal Pulse Voltammetry as Improved Quantitative Detection Mode for Amperometric Solvent Polymeric Membrane Ion Sensors. <i>Electroanalysis</i> , 2000 , 12, 1251-1257	3	31
194	Colorimetric Readout for Potentiometric Sensors with Closed Bipolar Electrodes. <i>Analytical Chemistry</i> , 2018 , 90, 6376-6379	7.8	31
193	In-Line Acidification for Potentiometric Sensing of Nitrite in Natural Waters. <i>Analytical Chemistry</i> , 2017 , 89, 571-575	7.8	30
192	Thin layer coulometric determination of nitrate in fresh waters. <i>Analytica Chimica Acta</i> , 2012 , 744, 39-44	16.6	30
191	Electrochemical sample matrix elimination for trace-level potentiometric detection with polymeric membrane ion-selective electrodes. <i>Analytical Chemistry</i> , 2008 , 80, 6114-8	7.8	30
190	Ion-pairing ability, chemical stability, and selectivity behavior of halogenated dodecacarborane cation exchangers in neutral carrier-based ion-selective electrodes. <i>Analytical Chemistry</i> , 2003 , 75, 2131	- 3 .8	30
189	Rotating disk potentiometry for inner solution optimization of low-detection-limit ion-selective electrodes. <i>Analytical Chemistry</i> , 2003 , 75, 6922-31	7.8	30
188	Voltammetric Thin-Layer Ionophore-Based Films: Part 1. Experimental Evidence and Numerical Simulations. <i>Analytical Chemistry</i> , 2017 , 89, 586-594	7.8	29
187	Potassium-selective optical microsensors based on surface modified polystyrene microspheres. <i>Chemical Communications</i> , 2014 , 50, 4592-5	5.8	29
186	Photodynamic ion sensor systems with spiropyran: photoactivated acidity changes in plasticized poly(vinyl chloride). <i>Chemical Communications</i> , 2012 , 48, 5662-4	5.8	29
185	Modern Directions for Potentiometric Sensors. <i>Journal of the Brazilian Chemical Society</i> , 2008 , 19, 621-6	29 5	29
184	Polymer membrane-based polyion sensors: Development, response mechanism, and bioanalytical applications. <i>Electroanalysis</i> , 1995 , 7, 823-829	3	29

(2013-2014)

183	Exhaustive thin-layer cyclic voltammetry for absolute multianalyte halide detection. <i>Analytical Chemistry</i> , 2014 , 86, 11387-95	7.8	28
182	Environmental water analysis with membrane electrodes. <i>Current Opinion in Electrochemistry</i> , 2017 , 3, 97-105	7.2	28
181	Limitations of current polarization for lowering the detection limit of potentiometric polymeric membrane sensors. <i>Analytical Chemistry</i> , 2009 , 81, 3592-9	7.8	28
180	Selectivity enhancement of anion-responsive electrodes by pulsed chronopotentiometry. <i>Analytica Chimica Acta</i> , 2007 , 583, 190-6	6.6	28
179	Perbrominated closo-dodecacarborane anion, 1-HCB11Br11-, as an ion exchanger in cation-selective chemical sensors. <i>Analytical Chemistry</i> , 2002 , 74, 1327-32	7.8	28
178	Direct arsenic(III) sensing by a renewable gold plated Ir-based microelectrode. <i>Analyst, The</i> , 2015 , 140, 3526-34	5	27
177	Chemical Modification of Polymer Ion-Selective Membrane Electrode Surfaces. <i>Electroanalysis</i> , 2014 , 26, 1121-1131	3	27
176	Synchrotron radiation/Fourier transform-infrared microspectroscopy study of undesirable water inclusions in solid-contact polymeric ion-selective electrodes. <i>Analytical Chemistry</i> , 2010 , 82, 6203-7	7.8	27
175	Background Current Elimination in Thin Layer Ion-Selective Membrane Coulometry. <i>Electrochemistry Communications</i> , 2010 , 12, 1195-1198	5.1	27
174	Polymerized Nile Blue derivatives for plasticizer-free fluorescent ion optode microsphere sensors. <i>Analytica Chimica Acta</i> , 2007 , 599, 124-33	6.6	27
173	Flow cytometric ion detection with plasticized poly(vinyl chloride) microspheres containing selective lonophores. <i>Analytical Chemistry</i> , 2002 , 74, 5420-5	7.8	27
172	Potentiometric sensing array for monitoring aquatic systems. <i>Environmental Sciences: Processes and Impacts</i> , 2015 , 17, 906-14	4.3	26
171	Water uptake in the hydrophilic poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) solid-contact of all-solid-state polymeric ion-selective electrodes. <i>Analyst, The</i> , 2011 , 136, 3252-8	5	26
170	Phosphate-Binding Characteristics and Selectivity Studies of Bifunctional Organotin Carriers. <i>Helvetica Chimica Acta</i> , 2001 , 84, 1952-1961	2	26
169	Direct potentiometric information on total ionic concentrations. <i>Analytical Chemistry</i> , 2000 , 72, 2050-4	7.8	26
168	Chronopotentiometric carbonate detection with all-solid-state ionophore-based electrodes. <i>Analytical Chemistry</i> , 2014 , 86, 6307-14	7.8	25
167	Light-controlled reversible release and uptake of potassium ions from ion-exchanging nanospheres. <i>ACS Applied Materials & District Research</i> , 1985, 1985, 1985, 2014, 6, 2666-70	9.5	25
166	PVC-Based Ion-Selective Electrodes with Enhanced Biocompatibility by Surface Modification with ClickIChemistry. <i>Electroanalysis</i> , 2013 , 25, 1840-1846	3	25

165	Backside calibration potentiometry: ion activity measurements with selective supported liquid membranes by calibrating from the inner side of the membrane. <i>Analytical Chemistry</i> , 2007 , 79, 632-8	7.8	24
164	Evaluation of the separate equilibrium processes that dictate the upper detection limit of neutral ionophore-based potentiometric sensors. <i>Analytical Chemistry</i> , 2002 , 74, 3134-41	7.8	24
163	Quantification of the concentration of ionic impurities in polymeric sensing membranes with the segmented sandwich technique. <i>Analytical Chemistry</i> , 2001 , 73, 4262-7	7.8	24
162	Electrochemical Mechanism of Ferrocene-Based Redox Molecules in Thin Film Membrane Electrodes. <i>Electrochimica Acta</i> , 2017 , 238, 357-367	6.7	23
161	Colorimetric absorbance mapping and quantitation on paper-based analytical devices. <i>Lab on A Chip</i> , 2020 , 20, 1441-1448	7.2	23
160	Fluorinated tripodal receptors for potentiometric chloride detection in biological fluids. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 70-76	11.8	23
159	Photoelectric conversion based on proton-coupled electron transfer reactions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7857-60	16.4	23
158	Direct alkalinity detection with ion-selective chronopotentiometry. <i>Analytical Chemistry</i> , 2014 , 86, 6461	- 7 Ø	23
157	Multiplexed flow cytometric sensing of blood electrolytes in physiological samples using fluorescent bulk optode microspheres. <i>Analytical Chemistry</i> , 2007 , 79, 9505-12	7.8	23
156	Local Acidification of Membrane Surfaces for Potentiometric Sensing of Anions in Environmental Samples. <i>ACS Sensors</i> , 2016 , 1, 48-54	9.2	22
155	Electrogenerated Chemiluminescence for Chronopotentiometric Sensors. <i>Analytical Chemistry</i> , 2019 , 91, 4889-4895	7.8	22
154	Oxazinoindolines as fluorescent H+ turn-on chromoionophores for optical and electrochemical ion sensors. <i>Analytical Chemistry</i> , 2013 , 85, 7434-40	7.8	22
153	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
152	Flash chronopotentiometric sensing of the polyions protamine and heparin at ion-selective membranes. <i>Analytical Biochemistry</i> , 2009 , 386, 276-81	3.1	22
151	Measurement of total calcium by flash chronopotentiometry at polymer membrane ion-selective electrodes. <i>Analytica Chimica Acta</i> , 2009 , 648, 240-5	6.6	22
150	Selectivity of carrier-based ion-selective electrodes: is the problem solved?. <i>TrAC - Trends in Analytical Chemistry</i> , 1997 , 16, 252-260	14.6	22
149	Fluorescent microsphere fiber optic microsensor array for direct iodide detection at low picomolar concentrations. <i>Analyst, The</i> , 2007 , 132, 268-72	5	22
148	Distinguishing free and total calcium with a single pulsed galvanostatic ion-selective electrode. <i>Talanta</i> , 2004 , 63, 195-200	6.2	22

147	Optical sensors based on neutral carriers. Sensors and Actuators B: Chemical, 1993, 11, 1-8	8.5	22
146	Determination of pK(a) Values of Hydrophobic Colorimetric pH Sensitive Probes in Nanospheres. <i>Analytical Chemistry</i> , 2016 , 88, 3015-8	7.8	21
145	Ionophore-based ion-exchange emulsions as novel class of complexometric titration reagents. <i>Chemical Communications</i> , 2014 , 50, 12659-61	5.8	21
144	Detection limits of thin layer coulometry with ionophore based ion-selective membranes. <i>Analytical Chemistry</i> , 2012 , 84, 8038-44	7.8	21
143	In situ surface functionalization of plasticized poly(vinyl chloride) membranes by Elick chemistry Journal of Materials Chemistry, 2012 , 22, 12796		21
142	Generalized Selectivity Description for Polymeric Ion-Selective Electrodes Based on the Phase Boundary Potential Model. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 639, 1-7	4.1	21
141	Selectivity of Liquid Membrane Cadmium Microelectrodes Based on the Ionophore N,N,N?,N?-Tetrabutyl-3,6-dioxaoctanedithioamide. <i>Electroanalysis</i> , 1998 , 10, 937-941	3	21
140	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
139	Ion-selective supported liquid membranes placed under steady-state diffusion control. <i>Analytical Chemistry</i> , 2005 , 77, 7801-9	7.8	20
138	Light-Addressable Ion Sensing for Real-Time Monitoring of Extracellular Potassium. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16801-16805	16.4	20
137	Ionophore-Based Titrimetric Detection of Alkali Metal Ions in Serum. ACS Sensors, 2017, 2, 606-612	9.2	19
136	Electrochemical Ion Transfer with Thin Films of Poly(3-octylthiophene). <i>Analytical Chemistry</i> , 2016 , 88, 6939-46	7.8	19
135	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
134	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
133	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
132	Ultrasensitive Seawater pH Measurement by Capacitive Readout of Potentiometric Sensors. <i>ACS Sensors</i> , 2020 , 5, 650-654	9.2	18
132		9.2 3.6	18

129	Ion-selective optode nanospheres as heterogeneous indicator reagents in complexometric titrations. <i>Analytical Chemistry</i> , 2015 , 87, 2827-31	7.8	18
128	Nitrite-Selective Electrode Based On Cobalt(II) tert-Butyl-Salophen Ionophore. <i>Electroanalysis</i> , 2014 , 26, 473-480	3	18
127	Origin of anion response of solvent polymeric membrane based silver ion-selective electrodes. <i>Sensors and Actuators B: Chemical</i> , 1996 , 35, 20-25	8.5	18
126	Thin Layer Samples Controlled by Dynamic Electrochemistry. <i>Chimia</i> , 2015 , 69, 203-6	1.3	17
125	Optical chloride sensor based on [9]mercuracarborand-3 with massively expanded measuring range. <i>Talanta</i> , 2004 , 63, 180-4	6.2	17
124	Microsphere optical ion sensors based on doped silica gel templates. <i>Analytica Chimica Acta</i> , 2005 , 537, 135-143	6.6	17
123	Electrochemically Switchable Polymeric Membrane Ion-Selective Electrodes. <i>Analytical Chemistry</i> , 2018 , 90, 7591-7599	7.8	17
122	Ion Transfer Voltammetry at Thin Films Based on Functionalized Cationic [6]Helicenes. <i>Electroanalysis</i> , 2018 , 30, 650-657	3	16
121	Interference compensation for thin layer coulometric ion-selective membrane electrodes by the double pulse technique. <i>Analytical Chemistry</i> , 2012 , 84, 1327-35	7.8	16
120	An acyclic trialkylamine virtually planar at nitrogen. Some chemical consequences of nitrogen planarity. <i>Journal of Organic Chemistry</i> , 2010 , 75, 4472-9	4.2	16
119	High-temperature potentiometry: modulated response of ion-selective electrodes during heat pulses. <i>Analytical Chemistry</i> , 2009 , 81, 10290-4	7.8	16
118	Moderne Potentiometrie. <i>Angewandte Chemie</i> , 2007 , 119, 5758-5767	3.6	16
117	Improving measurement stability and reproducibility of potentiometric sensors for polyions such as heparin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999 , 19, 163-73	3.5	16
116	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
115	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
114	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
113	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
112	Advancing membrane electrodes and optical ion sensors. <i>Chimia</i> , 2011 , 65, 141-9	1.3	15

111	Potentiometric Determination of Effective Complex Formation Constants of Lipophilic Ion Carriers within Ion-Selective Electrode Membranes. <i>Journal of the Electrochemical Society</i> , 1997 , 144, L125-L127	3.9	15	
110	Selectivity comparison of neutral carrier-based ion-selective optical and potentiometric sensing schemes. <i>Analytica Chimica Acta</i> , 1997 , 350, 329-340	6.6	15	
109	A Solid-State Reference Electrode Based on a Self-Referencing Pulstrode. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2294-2298	16.4	15	
108	Complexometric titrations: new reagents and concepts to overcome old limitations. <i>Analyst, The</i> , 2016 , 141, 4252-61	5	15	
107	Voltammetric Thin-Layer Ionophore-Based Films: Part 2. Semi-Empirical Treatment. <i>Analytical Chemistry</i> , 2017 , 89, 595-602	7.8	14	
106	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	
105	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	
104	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	
103	Reversible detection of proteases and their inhibitors by a pulsed chronopotentiometric polyion-sensitive electrode. <i>Analytical Biochemistry</i> , 2008 , 374, 366-70	3.1	14	
102	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	
101	Tunable Optical Sensing with PVC-Membrane-Based Ion-Selective Bipolar Electrodes. <i>ACS Sensors</i> , 2019 , 4, 1008-1016	9.2	13	
100	Coulometric calcium pump for thin layer sample titrations. <i>Analytical Chemistry</i> , 2015 , 87, 10125-30	7.8	13	
99	Solvatochromic Dyes as pH-Independent Indicators for Ionophore Nanosphere-Based Complexometric Titrations. <i>Analytical Chemistry</i> , 2015 , 87, 12318-23	7.8	13	
98	Absorbance characterization of microsphere-based ion-selective optodes. <i>Analytica Chimica Acta</i> , 2007 , 596, 195-200	6.6	13	
97	Spectral Imaging and Electrochemical Study on the Response Mechanism of Ionophore-Based Polymeric Membrane Amperometric pH Sensors. <i>Electroanalysis</i> , 2003 , 15, 1261-1269	3	13	
96	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	
95	Phenytoin speciation with potentiometric and chronopotentiometric ion-selective membrane electrodes. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 114-20	11.8	12	
94	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	

93	Ionophore-based ion optodes without a reference ion: electrogenerated chemiluminescence for potentiometric sensors. <i>Analyst, The</i> , 2012 , 137, 4988-94	5	12
92	REAL-TIME PROBING OF THE GROWTH DYNAMICS OF NANOPARTICLES USING POTENTIOMETRIC ION-SELECTIVE ELECTRODES. <i>Electrochemistry Communications</i> , 2009 , 11, 1964-1967	5.1	12
91	Sensitivity and working range of backside calibration potentiometry. <i>Analytical Chemistry</i> , 2007 , 79, 870)5⁄81	12
90	Polymeric Membrane pH Electrodes Based on Electrically Charged Ionophores. <i>Analytical Chemistry</i> , 1998 , 70, 5252-5258	7.8	12
89	Paper-supported thin-layer ion transfer voltammetry for ion detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 280, 69-76	8.5	12
88	Potentiometric Sensor Array with Multi-Nernstian Slope. <i>Analytical Chemistry</i> , 2020 , 92, 2926-2930	7.8	11
87	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
86	Synthesis and Characterization of High Integrity Solid-Contact Polymeric Ion Sensors. <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 137-148	2.6	11
85	Lipophilic Ionic Sites for Solvent Polymeric Membrane pH Electrodes Based on 4?,5?-Dibromofluorescein Octadecylester as Electrically Charged Carrier. <i>Journal of the Electrochemical Society</i> , 1997 , 144, L27-L28	3.9	11
84	Reversible electrochemical monitoring of surface confined reactions at liquid-liquid interfaces by modulation of ion transfer fluxes. <i>Chemical Communications</i> , 2005 , 3074-6	5.8	11
83	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
82	Transportation and Accumulation of Redox Active Species at the Buried Interfaces of Plasticized Membrane Electrodes. <i>Langmuir</i> , 2015 , 31, 10599-609	4	10
81	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
80	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
79	Backside calibration chronopotentiometry: using current to perform ion measurements by zeroing the transmembrane ion flux. <i>Analytical Chemistry</i> , 2008 , 80, 7516-23	7.8	10
78	Operational Limits of Controlled Current Coulometry with Ion-Selective Polymeric Membranes. <i>Electroanalysis</i> , 2008 , 20, 225-232	3	10
77	How Do Pulsed Amperometric Ion Sensors Work? A Simple PDE Model. SIAM Review, 2003, 45, 327-344	7.4	10
76	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

75	In-Line Seawater Phosphate Detection with Ion-Exchange Membrane Reagent Delivery. <i>ACS Sensors</i> , 2018 , 3, 2455-2462	9.2	10
74	Fast Potentiometric CO Sensor for High-Resolution in Situ Measurements in Fresh Water Systems. <i>Environmental Science & Environmental </i>	10.3	10
73	Surface-Doped Polystyrene Microsensors Containing Lipophilic Solvatochromic Dye Transducers. <i>Chemistry - A European Journal</i> , 2018 , 24, 7921-7925	4.8	9
72	Pulsed chronopotentiometric membrane electrodes based on plasticized poly(vinyl chloride) with covalently bound ferrocene functionalities as solid contact transducer. <i>Pure and Applied Chemistry</i> , 2012 , 84, 2045-2054	2.1	9
71	Kinetic modulation of pulsed chronopotentiometric polymeric membrane ion sensors by polyelectrolyte multilayers. <i>Analytical Chemistry</i> , 2007 , 79, 7154-60	7.8	9
70	Fluorescent Ion-Sensing Microspheres for Multiplexed Chemical Analysis of Clinical and Biological Samples. <i>Sensors Update</i> , 2003 , 13, 83-104		9
69	Antifouling membrane integrated renewable gold microelectrode for in situ detection of As(III). <i>Analytical Methods</i> , 2015 , 7, 7503-7510	3.2	8
68	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
67	Characterization of Salophen Co(III) Acetate Ionophore for Nitrite Recognition. <i>Electrochimica Acta</i> , 2015 , 179, 16-23	6.7	8
66	Electrogenerated chemiluminescence triggered by electroseparation of Ru(bpy)3(2+) across a supported liquid membrane. <i>Chemical Communications</i> , 2011 , 47, 11644-6	5.8	8
65	Thin layer coulometry ion sensing protocol with potassium-selective membrane electrodes. <i>Electrochimica Acta</i> , 2011 , 56, 10359-10363	6.7	8
64	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
63	Anion-exchange nanospheres as titration reagents for anionic analytes. <i>Analytical Chemistry</i> , 2015 , 87, 8347-52	7.8	7
62	Direct Potentiometric Sensing of Anion Concentration (Not Activity). ACS Sensors, 2020, 5, 313-318	9.2	7
61	Flow Chronopotentiometry with Ion-Selective Membranes for Cation, Anion, and Polyion Detection. <i>Analytical Chemistry</i> , 2016 , 88, 3945-52	7.8	7
60	Chronopotentiometry of pure electrolytes with anion-exchange donnan exclusion membranes. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 731, 100-106	4.1	7
59	Counter electrode based on an ion-exchanger Donnan exclusion membrane for bioelectroanalysis. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 64-9	11.8	7
58	Thin Layer Coulometry of Nitrite with Ion-Selective Membranes. <i>Electroanalysis</i> , 2015 , 27, 609-615	3	7

57	New trends in ion-selective electrodes 2008 , 71-114		7
56	Thin Layer Membrane Systems as Rapid Development Tool for Potentiometric Solid Contact Ion-selective Electrodes. <i>Electroanalysis</i> , 2020 , 32, 799-804	3	7
55	Self-Powered Potentiometric Sensor Transduction to a Capacitive Electronic Component for Later Readout. <i>ACS Sensors</i> , 2020 , 5, 2909-2914	9.2	7
54	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, 925-9	9 37	7
53	Colorimetric ionophore-based coextraction titrimetry of potassium ions. <i>Analytica Chimica Acta</i> , 2018 , 1029, 37-43	6.6	6
52	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
51	Detecting Heparin in Whole Blood for Point of Care Anticoagulation Control During Surgery. <i>Chimia</i> , 2013 , 67, 350-350	1.3	6
50	Self-Powered Electrochromic Readout of Potentiometric pH Electrodes. <i>Analytical Chemistry</i> , 2021 , 93, 4263-4269	7.8	6
49	Camping Burner-Based Flame Emission Spectrometer for Classroom Demonstrations. <i>Journal of Chemical Education</i> , 2014 , 91, 1655-1660	2.4	5
48	Potentiometric Sensors. <i>Nanostructure Science and Technology</i> , 2014 , 193-238	0.9	5
47	Advances in Potentiometry. Electroanalytical Chemistry, A Series of Advances, 2011, 1-74		5
46	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
45	Potassium Sensitive Optical Nanosensors Containing Voltage Sensitive Dyes. <i>Chimia</i> , 2015 , 69, 196-8	1.3	4
44	Reversible Sensing of the Anticoagulant Heparin with Protamine Permselective Membranes. <i>Angewandte Chemie</i> , 2012 , 124, 12743-12746	3.6	4
43	A Solid-State Reference Electrode Based on a Self-Referencing Pulstrode. <i>Angewandte Chemie</i> , 2020 , 132, 2314-2318	3.6	4
42	Describing Ion Exchange at Membrane Electrodes for Ions of Different Charge. <i>Electroanalysis</i> , 2018 , 30, 633-640	3	4
41	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
40	A Miniature Wastewater Cleaning Plant to Demonstrate Primary Treatment in the Classroom. Journal of Chemical Education, 2015 , 92, 1889-1891	2.4	3

39	Ion-Selective Electrodes 2018 , 231-231		3
38	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
37	Towards Ion-Selective Membranes with Electrogenerated Chemiluminescence Detection: Visualizing Selective Ru(bpy)32+ Transport Across a Plasticized Poly(vinyl chloride) Membrane. <i>Electroanalysis</i> , 2012 , 24, 61-68	3	3
36	Assessing ion-exchange properties and purity of lipophilic electrolytes by potentiometry and spectrophotometry. <i>Electrochemistry Communications</i> , 2010 , 12, 110-113	5.1	3
35	Colorimetric ratiometry with ion optodes for spatially resolved concentration analysis. <i>Analytica Chimica Acta</i> , 2021 , 1154, 338225	6.6	3
34	Self-Powered Potentiometric Sensors with Memory. ACS Sensors, 2021, 6, 3650-3656	9.2	3
33	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
32	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
31	Phosphate-Binding Characteristics and Selectivity Studies of Bifunctional Organotin Carriers 2001 , 84, 1952		3
30	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
29	Ion-exchange Microemulsions for Eliminating Dilute Interferences in Potentiometric Determinations. <i>Electroanalysis</i> , 2018 , 30, 2462-2466	3	2
28	Potentiometric determination of coextraction constants of potassium salts in ion-selective electrodes utilizing a nitrobenzene liquid membrane phase. <i>Analytica Chimica Acta</i> , 2010 , 683, 92-5	6.6	2
27	Recentes avan®s e novas perspectivas dos eletrodos ®n-seletivos. <i>Quimica Nova</i> , 2006 , 29, 1094-1100	1.6	2
26	Palm-Based Data Acquisition Solutions for the Undergraduate Chemistry Laboratory. <i>Journal of Chemical Education</i> , 2003 , 80, 1303	2.4	2
25	Should ACS Sensors Publish Papers on Fluorescent Sensors for Metal Ions at All?. <i>ACS Sensors</i> , 2016 , 1, 324-325	9.2	2
24	Renewable magnetic ion-selective colorimetric microsensors based on surface modified polystyrene beads. <i>Analytica Chimica Acta</i> , 2020 , 1094, 136-141	6.6	2
23	Light-Addressable Ion Sensing for Real-Time Monitoring of Extracellular Potassium. <i>Angewandte Chemie</i> , 2018 , 130, 17043-17047	3.6	2
22	Hydrophobic Membranes as Liquid Junction-Free Reference Electrodes 1999 , 11, 788		2

21	Agarose hydrogel containing immobilized pH buffer microemulsion without increasing permselectivity. <i>Talanta</i> , 2018 , 177, 191-196	6.2	1
20	Environmental Sensing of Aquatic Systems at the University of Geneva. <i>Chimia</i> , 2014 , 68, 772-7	1.3	1
19	Chemically selective optode membranes and optical detection modes 1993 , 1796, 371		1
18	Surfactants for Optode Emulsion Stabilization without Sacrificing Selectivity or Binding Constants. <i>Analytical Chemistry</i> , 2021 , 93, 15941-15948	7.8	1
17	Protamine/heparin optical nanosensors based on solvatochromism Chemical Science, 2021, 12, 15596-	156402	1
16	Emulsion Doping of Ionophores and Ion-Exchangers into Ion-Selective Electrode Membranes. <i>Analytical Chemistry</i> , 2020 , 92, 14319-14324	7.8	1
15	A Scientific Journey with Ionophore-based Sensors. <i>Chimia</i> , 2020 , 74, 569-576	1.3	1
14	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
13	Normal Pulse Voltammetry as Improved Quantitative Detection Mode for Amperometric Solvent Polymeric Membrane Ion Sensors 2000 , 12, 1251		1
12	IonIbnophore interactions in polymeric membranes studied by thin layer voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2022 , 358, 131428	8.5	O
11	Dialysis membranes as liquid junction materials: Simplified model based on the phase boundary potential. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 115886	4.1	O
10	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	O
9	Welcome to the First Anniversary Issue of ACS Sensors. ACS Sensors, 2017, 2, 1-2	9.2	
8	Reflecting on How ACS Sensors Can Help Advance the Field of Sensing. <i>ACS Sensors</i> , 2017 , 2, 455-456	9.2	
7	Welcome to ACS Sensors. ACS Sensors, 2016, 1, 1-2	9.2	
6	Advancing Schwarzenbach's Complexometry: Nano-scale Titration Reagents Based on Heterogeneous Reactions. <i>Chimia</i> , 2014 , 68, 899	1.3	
5	August 2017: Two Years of Submissions. <i>ACS Sensors</i> , 2017 , 2, 1068-1069	9.2	
4	Celebrating Electrochemical Sensors at the 2017 Matrafured Meeting. ACS Sensors, 2017, 2, 854	9.2	

LIST OF PUBLICATIONS

Shifting the Measuring Range of Chloride Selective Electrodes and Optodes Based on the Anticrown Ionophore [9]Mercuracarborand-3 by the Addition of 1-Decanethiol **2005**, 50, 71-83

2	Equipment-free Detection of K on Paper. <i>Chimia</i> , 2019 , 73, 944	1.3
1	Unbiased Selectivity Coefficients of Potentiometric Sensors Using Thin Membrane Layers.	3