ErnÅ‘ Lindner

List of Publications by Year
in descending order

95 papers	4,186 citations	101543 36 h-index	118850 62 g-index
106 all docs	106 docs citations	106 times ranked	2337 citing authors

#	Article	IF	Citations
1	Electrochemical sensor for tricyclic antidepressants with low nanomolar detection limit: Quantitative Determination of Amitriptyline and Nortriptyline in blood. Talanta, 2022, 239, 123072.	5.5	12
2	Urinary pCO₂ Monitoring System with a Planar Severinghaus Type Sensor. Electroanalysis, 2022, 34, 1587-1597.	2.9	1
3	A â€œSmartâ€•Biosensor-Enabled Intravascular Catheter and Platform for Dynamic Delivery of Propofol to â€œClose the Loopâ€•for Total Intravenous Anesthesia. Military Medicine, 2021, 186, 370-377.	0.8	2
4	Polymeric membrane-modified voltammetric sensors for lipophilic analytes with nanomolar detection limit: Key parameters influencing the response characteristics. Analytica Chimica Acta, 2021, 1171, 338642.	5.4	2
5	Multilayer and Surface Immobilization of EDOT-Decorated Nanocapsules. Langmuir, 2021, 37, 499-508.	3.5	1
6	Evaluation, Pitfalls and Recommendations for the â€œWater Layer Testâ€•for Solid Contact Ionâ€selective Electrodes. Electroanalysis, 2020, 32, 781-791.	2.9	29
7	Plasticized PVC Membrane Modified Electrodes: Voltammetry of Highly Hydrophobic Compounds. Membranes, 2020, 10, 202.	3.0	10
8	Deposition of EDOT-Decorated Hollow Nanocapsules into PEDOT Films for Optical and Electrochemical Sensing. ACS Applied Nano Materials, 2020, 3, 6328-6335.	5.0	4
9	Kinetic Description of the Membraneâ€“Solution Interface for Ion-Selective Electrodes. ACS Sensors, 2020, 5, 2146-2154.	7.8	6
10	Reference Electrodes with Ionic Liquid Salt Bridge: When Will These Innovative Novel Reference Electrodes Gain Broad Acceptance?. ACS Sensors, 2019, 4, 549-561.	7.8	44
11	Designing Medical, Point of Care Sensors to Aid Health Care Providers in Diagnosing and Managing Diseases: Addressing Pertinent Issues and Some Contemporary Opportunities. Electroanalysis, 2018, 30, 310-313.	2.9	1
12	Differences in Electrochemically Deposited PEDOT(PSS) Films on Au and Pt Substrate Electrodes: A Quartz Crystal Microbalance Study. Electroanalysis, 2018, 30, 710-715.	2.9	11
13	Voltammetric Determination of Diffusion Coefficients in Polymer Membranes: Guidelines to Minimize Errors. Electroanalysis, 2018, 30, 681-689.	2.9	8
14	Generation, clearance, toxicity, and monitoring possibilities of unaccounted uremic toxins for improved dialysis prescriptions. American Journal of Physiology - Renal Physiology, 2018, 315, F890-F902.	2.7	5
15	PEDOT(PSS) as Solid Contact for Ion-Selective Electrodes: The Influence of the PEDOT(PSS) Film Thickness on the Equilibration Times. Analytical Chemistry, 2017, 89, 3508-3516.	6.5	53
16	Voltammetric determination of diffusion coefficients in polymer membranes. Analyst, The, 2017, 142, 930-937.	3.5	15
17	Medical Sensors for the Diagnosis and Management of Disease: The Physician Perspective. ACS Sensors, 2017, 2, 1549-1552.	7.8	19
18	Solid-Contact pH Sensor without CO₂ Interference with a Superhydrophobic PEDOT-C₁₄ as Solid Contact: The Ultimate â€œWater Layerâ€•Test. Analytical Chemistry, 2017, 89, 8468-8475.	6.5	77

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19	A method to monitor urinary carbon dioxide in patients with septic shock. Sensors and Actuators B: Chemical, 2016, 236, 77-84.	7.8	3
20	Poly(3-octylthiophene) as solid contact for ion-selective electrodes: contradictions and possibilities. Journal of Solid State Electrochemistry, 2016, 20, 3033-3041.	2.5	37
21	A Feedback Control Approach to Organic Drug Infusions Using Electrochemical Measurement. IEEE Transactions on Biomedical Engineering, 2016, 63, 506-511.	4.2	8
22	Equilibration Time of Solid Contact Ion-Selective Electrodes. Analytical Chemistry, 2015, 87, 6654-6659.	6.5	50
23	Smallâ€Volume pH Sensing with a Capillary Optode Utilizing Dyeâ€Loaded Porous Nanocapsules in a Hydrogel Matrix. Electroanalysis, 2015, 27, 733-744.	2.9	17
24	Propofol detection and quantification in human blood: the promise of feedback controlled, closed-loop anesthesia. Analyst, The, 2015, 140, 98-106.	3.5	38
25	Toward Feedback Controlled Anesthesia: Automated Flow Analytical System for Electrochemical Monitoring of Propofol in Serum Solutions. Electroanalysis, 2014, 26, 1295-1303.	2.9	17
26	Konstantin N. Mikhelson: Ion-selective electrodes. Analytical and Bioanalytical Chemistry, 2014, 406, 373-374.	3.7	0
27	Immobilization of fibrinogen antibody on self-assembled gold monolayers for immunosensor applications. Tissue Engineering and Regenerative Medicine, 2014, 11, 10-15.	3.7	5
28	Facile Directed Assembly of Hollow Polymer Nanocapsules within Spontaneously Formed Catanionic Surfactant Vesicles. Langmuir, 2014, 30, 7061-7069.	3.5	39
29	A tutorial on the application of ion-selective electrode potentiometry: An analytical method with unique qualities, unexplored opportunities and potential pitfalls; Tutorial. Analytica Chimica Acta, 2013, 762, 1-13.	5.4	97
30	Dye-Loaded Porous Nanocapsules Immobilized in a Permeable Polyvinyl Alcohol Matrix: A Versatile Optical Sensor Platform. Analytical Chemistry, 2012, 84, 2695-2701.	6.5	47
31	Toward Feedback-Controlled Anesthesia: Voltammetric Measurement of Propofol (2,6-Diisopropylphenol) in Serum-Like Electrolyte Solutions. Analytical Chemistry, 2012, 84, 7670-7676.	6.5	40
32	Ionâ€Selective Optodes in a Sampling Capillary for Tear Fluid Analysis. Electroanalysis, 2012, 24, 42-52.	2.9	9
33	Electrochemical quantification of 2,6-diisopropylphenol (propofol). Analytica Chimica Acta, 2011, 704, 63-67.	5.4	30
34	Surface plasmon resonance aided electrochemical immunosensor for CK-MB determination in undiluted serum samples. Analytical and Bioanalytical Chemistry, 2010, 397, 1873-1881.	3.7	23
35	Interpretation of chronopotentiometric transients of ion-selective membranes with two transition times. Journal of Electroanalytical Chemistry, 2010, 638, 254-261.	3.8	13
36	Nanocapsules with â€œinvisibleâ€• walls. Chemical Communications, 2010, 46, 1485.	4.1	51

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37	Microfabricated Amperometric Cells for Multicomponent Analysis. Electroanalysis, 2009, 21, 1944-1954.	2.9	7
38	To the Memory of ErnÅ‘ Pungor: A Subjective View on the History of Ionâ€Selective Electrodes. Electroanalysis, 2009, 21, 1887-1894.	2.9	9
39	Assessment of Ionâ€Ionophore Complex Diffusion Coefficients in Solvent Polymeric Membranes. Electroanalysis, 2009, 21, 1923-1930.	2.9	13
40	Quality control criteria for solid-contact, solvent polymeric membrane ion-selective electrodes. Journal of Solid State Electrochemistry, 2009, 13, 51-68.	2.5	273
41	Chronopotentiometric method for the assessment of ionophore diffusion coefficients in solvent polymeric membranes. Journal of Solid State Electrochemistry, 2009, 13, 171-179.	2.5	24
42	Current-polarized ion-selective membranes: The influence of plasticizer and lipophilic background electrolyte on concentration profiles, resistance, and voltage transients. Sensors and Actuators B: Chemical, 2009, 136, 410-418.	7.8	20
43	Cyclic Voltammograms at Coplanar and Shallow Recessed Microdisk Electrode Arrays: Guidelines for Design and Experiment. Analytical Chemistry, 2009, 81, 130-138.	6.5	128
44	Reverse Current Pulse Method To Restore Uniform Concentration Profiles in Ion-Selective Membranes. 2. Comparison of the Efficiency of the Different Protocols. Analytical Chemistry, 2009, 81, 5155-5164.	6.5	9
45	Reverse Current Pulse Method To Restore Uniform Concentration Profiles in Ion-Selective Membranes. 1. Galvanostatic Pulse Methods with Decreased Cycle Time. Analytical Chemistry, 2009, 81, 5146-5154.	6.5	17
46	Mathematical Model of Currentâ€Polarized Ionophoreâ€Based Ionâ€Selective Membranes: Large Current Chronopotentiometry. Electroanalysis, 2008, 20, 259-269.	2.9	30
47	Mathematical Model of Current-Polarized Ionophore-Based Ion-Selective Membranes. Journal of Physical Chemistry B, 2008, 112, 2008-2015.	2.6	28
48	Electrochemical methods for the determination of the diffusion coefficient of ionophores and ionophoreâ€"ion complexes in plasticized PVC membranes. Analyst, The, 2008, 133, 635.	3.5	44
49	Performance evaluation criteria for preparation and measurement of macro- and microfabricated ion-selective electrodes (IUPAC Technical Report). Pure and Applied Chemistry, 2008, 80, 85-104.	1.9	216
50	Measurement of sodium ion concentration in undiluted urine with cation-selective polymeric membrane electrodes after the removal of interfering compounds. Talanta, 2007, 74, 255-264.	5.5	36
51	How To Assess the Limits of Ion-Selective Electrodes:â€‰ Method for the Determination of the Ultimate Span, Response Range, and Selectivity Coefficients of Neutral Carrier-Based Cation Selective Electrodes. Analytical Chemistry, 2006, 78, 942-950.	6.5	28
52	Multispectral imaging of ion transport in neutral carrier-based cation-selective membranes. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 792-804.	1.5	19
53	Simple, Single Step Potential Difference Measurement for the Determination of the Ultimate Detection Limit of Ion Selective Electrodes. Electroanalysis, 2006, 18, 1245-1253.	2.9	9
54	Synthesis and Characterization of a Novel, Colored Lipophilic Additive for Spectral Imaging the Transport in Ionophore Based Ion-Selective Membranes. Electroanalysis, 2006, 18, 1396-1407.	2.9	19

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55	Detrimental changes in the composition of hydrogen ion-selective electrode and optode membranes. Analytica Chimica Acta, 2005, 543, 156-166.	5.4	20
56	Spectroelectrochemical Microscopy:â€‰ Spatially Resolved Spectroelectrochemistry of Carrier-Based Ion-Selective Membranes. Analytical Chemistry, 2005, 77, 2132-2139.	6.5	36
57	A polypyrrole-based solid-contact Pb2+-selective PVC-membrane electrode with a nanomolar detection limit. Analytical and Bioanalytical Chemistry, 2004, 380, 7-14.	3.7	117
58	Microfabricated ISEs: critical comparison of inherently conducting polymer and hydrogel based inner contacts. Talanta, 2004, 63, 89-99.	5.5	115
59	Spectroscopic Method for the Determination of the Ionic Site Concentration in Solvent Polymeric Membranes and Membrane Plasticizers. Analytical Chemistry, 2002, 74, 4060-4068.	6.5	44
60	Amperometric microcells for alkaline phosphatase assay. Analyst, The, 2002, 127, 235-240.	3.5	75
61	Development and study of an amperometric biosensor for the in vitro measurement of low concentration of putrescine in blood. Journal of Proteomics, 2002, 53, 165-175.	2.4	31
62	A Chronoamperometric Method To Estimate Changes in the Membrane Composition of Ion-Selective Membranes. Analytical Chemistry, 2001, 73, 4599-4606.	6.5	38
63	Peer Reviewed: Tracing the History of Selective Ion Sensors. Analytical Chemistry, 2001, 73, 88 A-97 A.	6.5	78
64	Picomolar Detection Limits with Current-Polarized Pb2+Ion-Selective Membranes. Analytical Chemistry, 2001, 73, 4249-4253.	6.5	131
65	Direct Evidence of Ionic Fluxes Across Ion-Selective Membranes:â€‰ A Scanning Electrochemical Microscopic and Potentiometric Study. Analytical Chemistry, 2001, 73, 2104-2111.	6.5	119
66	A glance into the bulk of solvent polymeric pH membranes. Pure and Applied Chemistry, 2001, 73, 17-22.	1.9	20
67	Screen-printed amperometric microcell for proline iminopeptidase enzyme activity assay. Biosensors and Bioelectronics, 2000, 15, 265-272.	10.1	11
68	Microfabricated Potentiometric Electrodes and Their In Vivo Applications.. Analytical Chemistry, 2000, 72, 336 A-345 A.	6.5	103
69	Tailored Transport Through Ion-Selective Membranes for Improved Detection Limits and Selectivity Coefficients. Electroanalysis, 1999, 11, 695-702.	2.9	141
70	A Chronoamperometric Method To Estimate Ionophore Loss from Ion-Selective Electrode Membranes. Analytical Chemistry, 1999, 71, 3673-3676.	6.5	33
71	Wet and dry chemistry kits for total creatine kinase activity using a microfabricated, planar, small-volume, amperometric cell. Analytica Chimica Acta, 1998, 377, 1-12.	5.4	12
72	Spectroscopic in Situ Imaging of Acid Coextraction Processes in Solvent Polymeric Ion-Selective Electrode and Optode Membranes. Analytical Chemistry, 1998, 70, 1176-1181.	6.5	56

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73	Amperometric Microcell for Enzyme Activity Measurements. Analytical Chemistry, 1998, 70, 2156-2162.	6.5	22
74	Studies of Potential Generation Across Membrane Sensors at Interfaces and through Bulk. Accounts of Chemical Research, 1998, 31, 257-266.	15.6	30
75	Chromoionophore-Mediated Imaging of Water Transport in Ion-Selective Membranes.. Analytical Sciences, 1998, 14, 57-61.	1.6	29
76	Spectropotentiometry:Â A New Method for in Situ Imaging of Concentration Profiles in Ion-Selective Membranes with Simultaneous Recording of Potentialâ^'Time Transients. Analytical Chemistry, 1996, 68, 4342-4350.	6.5	61
77	Microfabrication technology of flexible membrane based sensors for in vivo applications. Electroanalysis, 1995, 7, 846-851.	2.9	25
78	Characterization of Stability of Modified Poly(vinyl chloride) Membranes for Microfabricated Ion-Selective Electrode Arrays in Biomedical Applications. ACS Symposium Series, 1994, , 149-157.	0.5	5
79	Ion-Selective Microchemical Sensors with Reduced Preconditioning Time. Membrane Biostability Studies and Applications in Blood Analysis. Analytical Letters, 1994, 27, 3039-3063.	1.8	41
80	Electrochemical characterization of aminated PVC-based ion-selective membranes. Electroanalysis, 1993, 5, 725-730.	2.9	27
81	Analytical performances of lipophilic diamides based alkaline earth ion-selective electrodes. Electroanalysis, 1993, 5, 781-790.	2.9	21
82	Flexible (Kapton-based) microsensor arrays of high stability for cardiovascular applications. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 361.	1.7	90
83	Responses of H+ selective solvent polymeric membrane electrodes fabricated from modified PVC membranes. Talanta, 1993, 40, 957-967.	5.5	74
84	Zinc Selective Ionophores for Potentiometric and Optical Sensors. Analytical Letters, 1992, 25, 453-470.	1.8	31
85	New neutral carrier-based H+ selective membrane electrodes. Journal of Electroanalytical Chemistry, 1992, 327, 137-146.	3.8	71
86	Response of Liquid-Membrane Calcium-Selective Electrodes to Calcium Ion Activity Steps. Analytical Letters, 1991, 24, 505-518.	1.8	2
87	Membrane technology and dynamic response of ion-selective liquid-membrane electrodes. Analytical Chemistry, 1991, 63, 1380-1386.	6.5	144
88	Responses of site-controlled, plasticized membrane electrodes. Analytical Chemistry, 1988, 60, 295-301.	6.5	182
89	Switched wall jet for dynamic response measurements. Analytical Chemistry, 1987, 59, 2213-2216.	6.5	60
90	Theoretical interpretation of transient signals obtained with precipitate-based ion-selective electrodes in the presence of interfering ions. Analytical Chemistry, 1985, 57, 1506-1511.	6.5	28

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91	Lead-selective neutral carrier based liquid membrane electrode. Analytical Chemistry, 1984, 56, 1127-1131.	6.5	107
92	Dynamic response of precipitate-based ion-selective electrodes in the presence of interfering ions. Analytical Chemistry, 1982, 54, 202-207.	6.5	32
93	Response time studies for precipitate-based ion-selective electrodes in the range of the lower detection limit. Analytical Chemistry, 1982, 54, 72-76.	6.5	27
94	Response time studies on neutral carrier ion-selective membrane electrodes. Analytical Chemistry, 1978, 50, 1627-1631.	6.5	67
95	Response time curves of ion-selective electrodes. Analytical Chemistry, 1976, 48, 1071-1078.	6.5	76