Agata Michalska

List of Publications by Year
in descending order

129	3,364	34	50
papers	citations	h-index	g-index
		117625	189892

132	132	132	1878
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Allâ€Solidâ€State Ion Selective and Allâ€Solidâ€State Reference Electrodes. Electroanalysis, 2012, 24, 1253-1265.	2.9	155
2	Lowering the Detection Limit of Ion-Selective Plastic Membrane Electrodes with Conducting Polymer Solid Contact and Conducting Polymer Potentiometric Sensors. Analytical Chemistry, 2003, 75, 4964-4974.	6.5	103
3	All solid-state hydrogen ion-selective electrode based on a conducting poly(pyrrole) solid contact. Analyst, The, 1994, 119, 2417.	3.5	102
4	Optimizing the analytical performance and construction of ion-selective electrodes with conducting polymer-based ion-to-electron transducers. Analytical and Bioanalytical Chemistry, 2005, 384, 391-406.	3.7	90
5	All-plastic, disposable, low detection limit ion-selective electrodes. Analytica Chimica Acta, 2004, 523, 97-105.	5.4	85
6	Gold nanoparticles solid contact for ion-selective electrodes of highly stable potential readings. Talanta, 2011, 85, 1986-1989.	5.5	83
7	All-solid-state reference electrodes based on conducting polymers. Analyst, The, 2005, 130, 1655.	3.5	80
8	Factors Affecting the Potentiometric Response of All-Solid-State Solvent Polymeric Membrane Calcium-Selective Electrode for Low-Level Measurements. Analytical Chemistry, 2004, 76, 6410-6418.	6.5	78
9	All-Solid-State Calcium Solvent Polymeric Membrane Electrode for Low-Level Concentration Measurements. Analytical Chemistry, 2003, 75, 141-144.	6.5	67
10	Modeling Potentiometric Sensitivity of Conducting Polymers. Analytical Chemistry, 1997, 69, 4060-4064.	6.5	60
11	Solid-state reference electrodes based on carbon nanotubes and polyacrylate membranes. Analytical and Bioanalytical Chemistry, 2011, 399, 3613-3622.	3.7	60
12	PEDOT films: multifunctional membranes for electrochemical ion sensing. Journal of Solid State Electrochemistry, 2004, 8, 381-389.	2.5	59
13	Lowering the Resistivity of Polyacrylate Ion-Selective Membranes by Platinum Nanoparticles Addition. Analytical Chemistry, 2011, 83, 438-445.	6.5	59
14	Nanoparticles of Fluorescent Conjugated Polymers: Novel Ion-Selective Optodes. Analytical Chemistry, 2016, 88, 5644-5648.	6.5	58
15	All-solid-state chloride-selective electrode with poly(pyrrole) solid contact. Electroanalysis, 1995, 7, 692-693.	2.9	56
16	Improvement of Analytical Characteristic of Calcium Selective Electrode with Conducting Polymer Contact. The Role of Conducting Polymer Spontaneous Charge Transfer Processes and Their Galvanostatic Compensation. Electroanalysis, 2005, 17, 400-407.	2.9	53
17	Introducing Cobalt(II) Porphyrin/Cobalt(III) Corrole Containing Transducers for Improved Potential Reproducibility and Performance of All-Solid-State Ion-Selective Electrodes. Analytical Chemistry, 2017, 89, 7107-7114.	6.5	52
18	Accumulation of Cu(II) cations in poly(3,4-ethylenedioxythiophene) films doped by hexacyanoferrate anions and its application in Cu2+-selective electrodes with PVC based membranes. Electrochimica Acta, 2006, 51, 2298-2305.	5.2	50

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19	Polyacrylate Microspheres for Tunable Fluorimetric Zinc Ions Sensor. Analytical Chemistry, 2014, 86, 411-418.	6.5	48
20	Allâ€Solidâ€State Reference Electrodes with Poly(<i>n</i>â€butyl acrylate) Based Membranes. Electroanalysis, 2008, 20, 318-323.	2.9	46
21	Simple and disposable potentiometric sensors based on graphene or multi-walled carbon nanotubes â€“ carbonâ€“plastic potentiometric sensors. Analyst, The, 2013, 138, 2363.	3.5	46
22	Plastic reference electrodes and plastic potentiometric cells with dispersion cast poly(3,4-ethylenedioxythiophene) and poly(vinyl chloride) based membranes. Bioelectrochemistry, 2007, 71, 75-80.	4.6	45
23	Multiwalled Carbon Nanotubesâ€“Poly(3-octylthiophene-2,5-diyl) Nanocomposite Transducer for Ion-Selective Electrodes: Raman Spectroscopy Insight into the Transducer/Membrane Interface. Analytical Chemistry, 2019, 91, 9010-9017.	6.5	43
24	Potentiometric selectivity of p-doped polymer films. Analytica Chimica Acta, 2000, 406, 159-169.	5.4	42
25	Laser Ablation Inductively Coupled Plasma Mass Spectrometry Assisted Insight into Ion-Selective Membranes. Analytical Chemistry, 2006, 78, 5584-5589.	6.5	42
26	Study of polypyrrole film as redox electrode. Electroanalysis, 1993, 5, 261-263.	2.9	41
27	Bifunctionality of chemical sensors based on the conducting polymer polypyrrole. Talanta, 1994, 41, 323-325.	5.5	41
28	Experimental study on stability of different solid contact arrangements of ion-selective electrodes. Talanta, 2010, 82, 151-157.	5.5	41
29	Method of Achieving Desired Potentiometric Responses of Polyacrylate-Based Ion-Selective Membranes. Analytical Chemistry, 2008, 80, 3921-3924.	6.5	40
30	Optimization of capacitance of conducting polymer solid contact in ion-selective electrodes. Electrochimica Acta, 2016, 187, 397-405.	5.2	39
31	Composite Polyacrylateâˆ’Poly(3,4- ethylenedioxythiophene) Membranes for Improved All-Solid-State Ion-Selective Sensors. Analytical Chemistry, 2008, 80, 321-327.	6.5	37
32	The influence of spontaneous charging/discharging of conducting polymer ion-to-electron transducer on potentiometric responses of all-solid-state calcium-selective electrodes. Journal of Electroanalytical Chemistry, 2005, 576, 339-352.	3.8	36
33	Highly Selective All-Plastic, Disposable, Cu2+-Selective Electrodes. Electroanalysis, 2005, 17, 327-333.	2.9	36
34	Critical assessment of graphene as ion-to-electron transducer for all-solid-state potentiometric sensors. Talanta, 2012, 97, 414-419.	5.5	36
35	Fate of Poly(3-octylthiophene) Transducer in Solid Contact Ion-Selective Electrodes. Analytical Chemistry, 2018, 90, 2625-2630.	6.5	36
36	Conducting polymer membranes for low activity potentiometric ion sensing. Talanta, 2004, 63, 109-117.	5.5	35

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37	Tailoring Solution Cast Poly(3,4-dioctyloxythiophene) Transducers for Potentiometric All-Solid-State Ion-Selective Electrodes. Electroanalysis, 2006, 18, 763-771.	2.9	35
38	Polypyrrole microcapsules as a transducer for ion-selective electrodes. Electrochemistry Communications, 2010, 12, 1568-1571.	4.7	35
39	Alternating polymer micelle nanospheres for optical sensing. Analyst, The, 2014, 139, 2515.	3.5	35
40	Counter-Ion Influence on Polypyrrole Potentiometric pH Sensitivity. Mikrochimica Acta, 2003, 143, 163-175.	5.0	34
41	Silver and lead all-plastic sensorsâ€”polyaniline vs. poly(3,4-ethyledioxythiophene) solid contact. Journal of Solid State Electrochemistry, 2009, 13, 99-106.	2.5	34
42	Dithizone Modified Gold Nanoparticles Films for Potentiometric Sensing. Analytical Chemistry, 2012, 84, 4437-4442.	6.5	33
43	Flexible Electrolyte-Gated Ion-Selective Sensors Based on Carbon Nanotube Networks. IEEE Sensors Journal, 2015, 15, 3127-3134.	4.7	31
44	Observed redox interferences of poly(pyrrole)-based perchlorate-selective electrodes. Electroanalysis, 1994, 6, 604-605.	2.9	30
45	On the nature of the potentiometric response of polypyrrole in acidic solutions. Journal of Electroanalytical Chemistry, 1995, 392, 63-68.	3.8	30
46	Photopolymerized Polypyrrole Microvessels. Chemistry - A European Journal, 2012, 18, 310-320.	3.3	30
47	Polymeric ion-selective membrane functionalized gate-electrodes: Ion-selective response of electrolyte-gated poly (3-hexylthiophene) field-effect transistors. Organic Electronics, 2014, 15, 595-601.	2.6	30
48	Quantifying plasticizer leakage from ion-selective membranes â€“ a nanosponge approach. Analyst, The, 2020, 145, 2966-2974.	3.5	30
49	All-solid-state paper based potentiometric potassium sensors containing cobalt(II) porphyrin/cobalt(III) corrole in the transducer layer. Sensors and Actuators B: Chemical, 2018, 277, 306-311.	7.8	25
50	Galvanostatic Polarization of All-Solid-State K+-Selective Electrodes with Polypyrrole Ion-to-Electron Transducer. Electroanalysis, 2006, 18, 1339-1346.	2.9	24
51	Poly(n-butyl acrylate) based lead (II) selective electrodes. Talanta, 2009, 79, 1247-1251.	5.5	24
52	Spray-coated all-solid-state potentiometric sensors. Analyst, The, 2014, 139, 6010-6015.	3.5	23
53	Dithizone Modified Gold Nanoparticles Films as Solid Contact for Cu²⁺ Ionâ€Selective Electrodes. Electroanalysis, 2013, 25, 141-146.	2.9	22
54	On the pH Influence on Electrochemical Properties of Poly(pyrrole) and Poly(N-methylpyrrole). Electroanalysis, 1998, 10, 177-180.	2.9	21

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55	Non-covalently functionalized graphene for the potentiometric sensing of zinc ions. Analyst, The, 2012, 137, 1895.	3.5	21
56	Polypyrrole Microcapsules in Allâ€solidâ€state Reference Electrodes. Electroanalysis, 2012, 24, 165-172.	2.9	21
57	Quantifying Primary Silver Ions Contents in Poly(vinyl chloride) and Poly(<i>n</i>â€butyl acrylate) Ionâ€Selective Membranes. Electroanalysis, 2009, 21, 1931-1938.	2.9	20
58	Fluorimetric readout of ion-selective electrode potential changes. Electrochimica Acta, 2018, 284, 321-327.	5.2	20
59	Unintended Changes of Ion-Selective Membranes Compositionâ€"Origin and Effect on Analytical Performance. Membranes, 2020, 10, 266.	3.0	20
60	Polyacrylate microspheres composite for all-solid-state reference electrodes. Analyst, The, 2010, 135, 2420.	3.5	19
61	Polypyrrole Nanoparticles Based Disposable Potentiometric Sensors. Electroanalysis, 2017, 29, 2766-2772.	2.9	19
62	Polypyrrole Nanospheres â€“ Electrochemical Properties and Application as a Solid Contact in Ionâ€selective Electrodes. Electroanalysis, 2017, 29, 123-130.	2.9	19
63	Potentiometric responses of ion-selective electrodes after galvanostatically controlled incorporation of primary ions. Talanta, 2011, 84, 814-819.	5.5	18
64	The modelled and observed transition from redox to ionic potentiometric sensitivity of poly(pyrrole). Electrochimica Acta, 2001, 46, 4113-4123.	5.2	17
65	Optimizing calcium selective fluorimetric nanospheres. Talanta, 2015, 144, 398-403.	5.5	17
66	Advantages of Amperometric Readout Mode of Ionâ€selective Electrodes under Potentiostatic Conditions. Electroanalysis, 2019, 31, 343-349.	2.9	17
67	Tailoring polythiophene cation-selective optodes for wide pH range sensing. Talanta, 2020, 211, 120663.	5.5	17
68	Effect of interferents present in the internal solution or in the conducting polymer transducer on the responses of ion-selective electrodes. Analytical and Bioanalytical Chemistry, 2006, 385, 203-207.	3.7	16
69	Optimizing Carbon Nanotubes Dispersing Agents from the Point of View of Ionâ€selective Membrane Based Sensors Performance â€“ Introducing Carboxymethylcellulose as Dispersing Agent for Carbon Nanotubes Based Solid Contacts. Electroanalysis, 2016, 28, 947-953.	2.9	16
70	Electrochemical Properties of Polypyrrole Nanoparticles â€“ The Role of Doping Ions and Synthesis Medium. Electroanalysis, 2018, 30, 716-726.	2.9	16
71	Electrospun nanofiber supported optodes: scaling down the receptor layer thickness to nanometers â€“ towards 2D optodes. Analyst, The, 2019, 144, 4667-4676.	3.5	16
72	Amperometric Ion Sensing Using Polypyrrole Membranes. Electroanalysis, 2003, 15, 509-517.	2.9	15

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73	Reference Electrodes for Aqueous Solutions. , 2013, , 77-143.		15
74	Synthesis of conducting polymer nanospheres of high electrochemical activity. Chemical Communications, 2015, 51, 12645-12648.	4.1	15
75	Rectifying effect for ion-selective electrodes with conducting polymer solid contact. Synthetic Metals, 2018, 246, 246-253.	3.9	15
76	Self-Powered Cascade Bipolar Electrodes with Fluorimetric Readout. Analytical Chemistry, 2019, 91, 15525-15531.	6.5	15
77	Bilayer membranes for ion-selective electrodes. Journal of Electroanalytical Chemistry, 2016, 766, 128-134.	3.8	14
78	Ultrasmall self-assembly poly(N-isopropylacrylamide-butyl acrylate) (polyNIPAM-BA) thermoresponsive nanoparticles. Journal of Colloid and Interface Science, 2019, 542, 317-324.	9.4	14
79	Chloride-Selective Electrodes with Poly(n-butyl acrylate) Based Membranes. Electroanalysis, 2007, 19, 393-397.	2.9	13
80	Ambient Processed, Water-Stable, Aqueous-Gated sub 1â€‰V n-type Carbon Nanotube Field Effect Transistor. Scientific Reports, 2018, 8, 11386.	3.3	13
81	Ion-selective reversing aggregation-caused quenching - Maximizing optodes signal stability. Talanta, 2020, 220, 121358.	5.5	13
82	Emission Intensity Readout of Ion-Selective Electrodes Operating under an Electrochemical Trigger. Analytical Chemistry, 2021, 93, 10084-10089.	6.5	13
83	The specific influence of hydrogen ions on poly(pyrrole) potentiometry. Electrochimica Acta, 1999, 44, 2125-2129.	5.2	11
84	Potentiometric Responses of Poly(pyrrole) Films Surface Modified by Nafion. Electroanalysis, 2002, 14, 1236-1244.	2.9	11
85	Electrochemical evidences and consequences of significant differences in ions diffusion rate in polyacrylate-based ion-selective membranes. Analyst, The, 2011, 136, 4787.	3.5	11
86	Voltammetric Properties of Allâ€solid State Ionâ€selective Electrodes with Multiwalled Carbon Nanotubesâ€poly(3â€octylthiopheneâ€2,5â€diyl) Nanocomposite Transducer. Electroanalysis, 2019, 31, 2379-2386.	2.9	11
87	Rational design of nanoptodes architecture â€“ Towards multifunctional sensors. Talanta, 2019, 196, 226-230.	5.5	11
88	Turn-on fluorimetric sensor for water dispersed volatile organic compounds - A nanosponge approach. Sensors and Actuators B: Chemical, 2020, 311, 127904.	7.8	11
89	Dual potentiometric and UV/Vis spectrophotometric disposable sensors with dispersion cast polyaniline. Journal of Solid State Electrochemistry, 2010, 14, 2027-2037.	2.5	10
90	Comparison of trihexadecylalkylammonium iodides as ion-exchangers for polyacrylate and poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	7.8	10

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91	Polypyrrole â€“ Gold nanocomposites. Templateless synthesis and electrochemical properties. Electrochimica Acta, 2019, 320, 134585.	5.2	10
92	Cubosome Based Ion-Selective Optodesâ€"Toward Tunable Biocompatible Sensors. Analytical Chemistry, 2021, 93, 13106-13111.	6.5	10
93	Solidâ€Contact Ionâ€Selective Electrodes Paving the Way for Improved Nonâ€Zero Current Sensors: A Minireview. ChemElectroChem, 2022, 9, .	3.4	10
94	Sensitivity and Selectivity of Polypyrrole Based AC-Amperometric Sensors for Electroinactive Ions - Frequency and Applied Potential Influence. Electroanalysis, 2005, 17, 1269-1278.	2.9	9
95	Potentiometric layered membranes. Sensors and Actuators B: Chemical, 2015, 207, 995-1003.	7.8	9
96	Ultrasensitive 4-methylumbelliferone fluorimetric determination of water contents in aprotic solvents. Talanta, 2015, 132, 392-397.	5.5	9
97	Capsules as ion-selective optodes â€“ Maximizing sensitivity of ion-selective optodes. Sensors and Actuators B: Chemical, 2018, 273, 1730-1734.	7.8	9
98	Implementation of a Chlorideâ€selective Electrode Into a Closed Bipolar Electrode System with Fluorimetric Readout. Electroanalysis, 2020, 32, 812-819.	2.9	9
99	A potentiometric sensor based on modified electrospun PVDF nanofibers â€“ towards 2D ion-selective membranes. Analyst, The, 2020, 145, 5594-5602.	3.5	9
100	Induced ion-pair formation/ de-aggregation of rhodamine B octadecyl ester for anion optical sensing: Towards ibuprofen selective optical sensors. Talanta, 2021, 227, 122147.	5.5	9
101	Microspheres aided introduction of ionophore and ion-exchanger to the ion-selective membrane. Talanta, 2012, 88, 66-72.	5.5	8
102	Carbon Nanotubes-Based Potentiometric Bio-Sensors for Determination of Urea. Chemosensors, 2015, 3, 200-210.	3.6	8
103	Improving the Upper Detection Limit of Potentiometric Sensors. Electroanalysis, 2015, 27, 720-726.	2.9	8
104	Electrolyte gated transistors modified by polypyrrole nanoparticles. Electrochimica Acta, 2019, 309, 65-73.	5.2	8
105	Si-corrole-based fluoride fluorometric turn-on sensor. Journal of Porphyrins and Phthalocyanines, 2020, 24, 929-937.	0.8	8
106	Polypyrrole nanoparticles of high electroactivity. Simple synthesis methods and studies on electrochemical properties. Electrochimica Acta, 2021, 390, 138787.	5.2	8
107	Poly(3-octylthiophene) nanoparticles for turn-on fluorescent sensor. Sensors and Actuators B: Chemical, 2017, 238, 160-165.	7.8	7
108	Copolymeric hexyl acrylate-methacrylic acid microspheres â€“ surface vs. bulk reactive carboxyl groups. Coulometric and colorimetric determination and analytical applications for heterogeneous microtitration. Talanta, 2016, 159, 248-254.	5.5	6

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109	Analytical advantages of copolymeric microspheres for fluorimetric sensing â€“ tuneable sensitivity sensors and titration agents. Talanta, 2017, 163, 17-23.	5.5	5
110	An Electrochemical Approach to Quantification of Volatile Organic Solvents Dispersed in Solution â€“ Towards Bipolar Electrode Sensors. Electroanalysis, 2022, 34, 25-32.	2.9	5
111	3D-Drawn Supports for Ion-Selective Electrodes. Analytical Chemistry, 2022, 94, 3436-3440.	6.5	5
112	Using Lipophilic Membrane for Enhancedâ€Performance Aqueous Gated Carbon Nanotube Field Effect Transistors. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700993.	1.8	4
113	pH Switchable Electrochemical and Optical Properties of Polyoctylthiophene â€“ Pyrene Composites. Electroanalysis, 2020, 32, 842-850.	2.9	4
114	Estimation of primary silver ions contents in poly(vinyl chloride) ion-selective membranes using chronopotentiometry and mass spectrometry. Electrochimica Acta, 2012, 73, 86-92.	5.2	3
115	Core-shell nanoparticles optical sensors - Rational design of zinc ions fluorescent nanoprobes of improved analytical performance. Optical Materials, 2017, 72, 214-219.	3.6	3
116	Critical assessment of polymeric nanostructures used as colorimetric ions probes. Materials Science and Engineering C, 2018, 92, 69-76.	7.3	3
117	Polymeric nanofiber-based ion-selective sensors. Current Opinion in Electrochemistry, 2020, 23, 74-79.	4.8	3
118	Insights into Primary Ion Exchange between Ion-Selective Membranes and Solution. From Altering Natural Isotope Ratios to Isotope Dilution Inductively Coupled Plasma Mass Spectrometry Studies. ACS Sensors, 2020, 5, 3930-3938.	7.8	3
119	Inducing Sensitivity to Heavy Metal Ions in Polypyrrole Modified by Azamacrocyclic Ligands. Electroanalysis, 2009, 21, 2044-2053.	2.9	2
120	Electrochemical Properties of Polypyrrole Doped by Alternating Polymer Micelles. Electroanalysis, 2015, 27, 752-759.	2.9	2
121	Fluorescent Polypyrrole Nanospheres â€“ Synthesis and Properties of â€œWirelessâ€•Redox Probes. Electroanalysis, 2017, 29, 2167-2176.	2.9	2
122	Improving Fluorometric Determination of Water Content in Aprotic Solvents. Food Analytical Methods, 2018, 11, 486-494.	2.6	2
123	Fluorimetric readout of ion selective electrode signals operating under chronopotentiometric conditions. ChemElectroChem, 2021, 8, 4129.	3.4	2
124	Dual Sensitivityâ”€Potentiometric and Fluorimetricâ”€Ion-Selective Membranes. Analytical Chemistry, 2021, 93, 14737-14742.	6.5	2
125	Optimizing incorporation of nickel(II)â€“cyclam complex in poly(3,4-ethylenedioxythiophene) films for catalytic purposes. Journal of Solid State Electrochemistry, 2011, 15, 2369-2376.	2.5	1
126	Polythiophene based fluorimetric insight into minute styrene concentration in solution and gas phase. Optical Materials, 2022, 123, 111848.	3.6	1

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127	Bypassed ion-selective electrodes â€" self-powered polarization for tailoring of sensor performance. Analyst, The, 2022, 147, 2764-2772.	3.5	1
128	Ion-selective membrane plasticizer leakage in all-solid-state electrodes â€" an unobvious way to improve potential readings stability in time. Analyst, The, 0, , .	3.5	1
129	A simple currentless method of determination of ion fluxes to and within electroactive ion-exchange membranes. Journal of Solid State Electrochemistry, 2014, 18, 2131-2138.	2.5	0