Xiaojiang Xie

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8440141/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Exploring ratiometric endolysosomal pH nanosensors with hydrophobic indicators responding at the nanoscale interface and multiple fluorescence resonance energy transfers. Nano Research, 2022, 15, 3471-3478.	10.4	11
2	Ionophore-Based Potassium Selective Fluorescent Organosilica Nano-Optodes Containing Covalently Attached Solvatochromic Dyes. Chemosensors, 2022, 10, 23.	3.6	1
3	One-Pot Synthesized Organosilica Nanospheres for Multiplexed Fluorescent Nanobarcoding and Subcellular Tracking. Nanoscale, 2022, , .	5.6	1
4	Recent advance in dual-functional luminescent probes for reactive species and common biological ions. Analytical and Bioanalytical Chemistry, 2022, 414, 5087-5103.	3.7	5
5	Photoswitch-Based Fluorescence Encoding of Microspheres in a Limited Spectral Window for Multiplexed Detection. Analytical Chemistry, 2022, 94, 1531-1536.	6.5	11
6	lonophore-based ion-selective electrodes: signal transduction and amplification from potentiometry. Sensors & Diagnostics, 2022, 1, 213-221.	3.8	15
7	Phase transfer of fatty acids into ultrasmall nanospheres for colorimetric detection of lipase and albumin. Chemical Communications, 2022, , .	4.1	4
8	Perspective on fluorescence cell imaging with ionophore-based ion-selective nano-optodes. Biomicrofluidics, 2022, 16, .	2.4	3
9	Fluorescence Anisotropy as a Self-Referencing Readout for Ion-Selective Sensing and Imaging Using Homo-FRET between Chromoionophores. Analytical Chemistry, 2022, 94, 9793-9800.	6.5	6
10	Potentiometric determination of the neurotransmitter acetylcholine with ion-selective electrodes containing oxatub[4]arenes as the ionophore. Sensors and Actuators B: Chemical, 2021, 326, 128836.	7.8	20
11	Ruthenium bipyridine complexes as electrochemiluminescent transducers for ionophore-based ion-selective detection. Analyst, The, 2021, 146, 6955-6959.	3.5	4
12	lonophore-Based Ion-Selective Nanospheres Based on Monomer–Dimer Conversion in the Near-Infrared Region. ACS Sensors, 2021, 6, 1279-1285.	7.8	15
13	Editorial: Chemical Sensors for Biomedical Use. Frontiers in Chemistry, 2021, 9, 685563.	3.6	1
14	<scp>Singleâ€Component</scp> Chemical Nose with a Hemicyanine Probe for <scp>Patternâ€Based</scp> Discrimination of Metal lons ^{â€} . Chinese Journal of Chemistry, 2021, 39, 1517-1522.	4.9	2
15	Wash-Free Detection of Nucleic Acids with Photoswitch-Mediated Fluorescence Resonance Energy Transfer against Optical Background Interference. Analytical Chemistry, 2021, 93, 8128-8133.	6.5	9
16	Hydrogel-Based Optical Ion Sensors: Principles and Challenges for Point-of-Care Testing and Environmental Monitoring. ACS Sensors, 2021, 6, 1990-2001.	7.8	47
17	Ion-Selective optodes: Alternative approaches for simplified fabrication and signaling. Sensors and Actuators B: Chemical, 2021, 335, 129368.	7.8	31
18	Expanding benzothiadiazole-tetrazole photo-triggered click reaction with chloride ion into receptor. Dyes and Pigments, 2021, 191, 109345.	3.7	0

#	Article	IF	CITATIONS
19	Colorimetric and fluorescent turn-on detection of chloride ions with ionophore and BODIPY: Evaluation with nanospheres and cellulose paper. Analytica Chimica Acta, 2021, 1175, 338752.	5.4	5
20	Enhanced Sulfite-Selective Sensing and Cell Imaging with Fluorescent Nanoreactors Containing a Ratiometric Lipid Peroxidation Sensor. Analytical Chemistry, 2021, 93, 11758-11764.	6.5	8
21	A Solidâ€&tate Reference Electrode Based on a Selfâ€Referencing Pulstrode. Angewandte Chemie - International Edition, 2020, 59, 2294-2298.	13.8	24
22	Ionophore-Based Ion-Selective Nanosensors from Brush Block Copolymer Nanodots. ACS Applied Nano Materials, 2020, 3, 782-788.	5.0	19
23	A Solidâ€State Reference Electrode Based on a Selfâ€Referencing Pulstrode. Angewandte Chemie, 2020, 132, 2314-2318.	2.0	6
24	The Hofmeister Anion Effect on Ionophoreâ€based Ionâ€selective Nanospheres Containing Solvatochromic Dyes. Electroanalysis, 2020, 32, 749-754.	2.9	8
25	Dual functional luminescent nanoprobes for monitoring oxygen and chloride concentration changes in cells. Chemical Communications, 2020, 56, 14980-14983.	4.1	5
26	Distance-based detection of calcium ions with hydrogels entrapping exhaustive ion-selective nanoparticles. Sensors and Actuators B: Chemical, 2020, 319, 128300.	7.8	24
27	Direct Potentiometric Sensing of Anion Concentration (Not Activity). ACS Sensors, 2020, 5, 313-318.	7.8	10
28	Ionophore-based pH independent detection of ions utilizing aggregation-induced effects. Analyst, The, 2020, 145, 3846-3850.	3.5	16
29	Rapid Equilibrated Colorimetric Detection of Protamine and Heparin: Recognition at the Nanoscale Liquid–Liquid Interface. Analytical Chemistry, 2019, 91, 10390-10394.	6.5	28
30	Rhodamine dye transfer from hydrogel to nanospheres for the chemical detection of potassium ions. Analyst, The, 2019, 144, 5617-5623.	3.5	14
31	A rapid point-of-care optical ion sensing platform based on target-induced dye release from smart hydrogels. Chemical Communications, 2019, 55, 1774-1777.	4.1	31
32	Chemiluminescent Ion Sensing Platform Based on Ionophores. Analytical Chemistry, 2019, 91, 8638-8643.	6.5	18
33	Simplified Fabrication for Ion-Selective Optical Emulsion Sensor with Hydrophobic Solvatochromic Dye Transducer: A Cautionary Tale. Analytical Chemistry, 2019, 91, 8973-8978.	6.5	22
34	Distance and Color Change Based Hydrogel Sensor for Visual Quantitative Determination of Buffer Concentrations. ACS Sensors, 2019, 4, 1017-1022.	7.8	22
35	Electrogenerated Chemiluminescence for Chronopotentiometric Sensors. Analytical Chemistry, 2019, 91, 4889-4895.	6.5	32
36	Naphthocage: A Flexible yet Extremely Strong Binder for Singly Charged Organic Cations. Journal of the American Chemical Society, 2019, 141, 4468-4473.	13.7	53

#	Article	IF	CITATIONS
37	A Plasticizer-Free Miniaturized Optical Ion Sensing Platform with Ionophores and Silicon-Based Particles. Analytical Chemistry, 2018, 90, 5818-5824.	6.5	38
38	Ionophoreâ€based Heterogeneous Calcium Optical Titration. Electroanalysis, 2018, 30, 705-709.	2.9	9
39	Surfaceâ€Doped Polystyrene Microsensors Containing Lipophilic Solvatochromic Dye Transducers. Chemistry - A European Journal, 2018, 24, 7921-7925.	3.3	15
40	Agarose hydrogel containing immobilized pH buffer microemulsion without increasing permselectivity. Talanta, 2018, 177, 191-196.	5.5	2
41	Electrochemical-to-Optical Signal Transduction for Ion-Selective Electrodes with Light-Emitting Diodes. Analytical Chemistry, 2018, 90, 12791-12795.	6.5	21
42	Graphene Quantum Dots Integrated in Ionophore-Based Fluorescent Nanosensors for Na ⁺ and K ⁺ . ACS Sensors, 2018, 3, 2408-2414.	7.8	38
43	Colorimetric Calcium Probe with Comparison to an Ion-Selective Optode. ACS Omega, 2018, 3, 12476-12481.	3.5	6
44	Ionophore-Based Titrimetric Detection of Alkali Metal Ions in Serum. ACS Sensors, 2017, 2, 606-612.	7.8	25
45	Thermochromic Ion-Exchange Micelles Containing H+ Chromoionophores. Langmuir, 2017, 33, 5910-5914.	3.5	12
46	Non-Equilibrium Diffusion Controlled Ion-Selective Optical Sensor for Blood Potassium Determination. ACS Sensors, 2017, 2, 1410-1414.	7.8	43
47	Resonant out-of-phase fluorescence microscopy and remote imaging overcome spectral limitations. Nature Communications, 2017, 8, 969.	12.8	41
48	Effects of Warm Laser Peening on Thermal Stability and High Temperature Mechanical Properties of A356 Alloy. Metals, 2016, 6, 126.	2.3	6
49	Renovating the chromoionophores and detection modes in carrier-based ion-selective optical sensors. Analytical and Bioanalytical Chemistry, 2016, 408, 2717-2725.	3.7	10
50	Reversible pH-independent optical potassium sensor with lipophilic solvatochromic dye transducer on surface modified microporous nylon. Chemical Communications, 2016, 52, 14254-14257.	4.1	25
51	Determination of p <i>K</i> _a Values of Hydrophobic Colorimetric pH Sensitive Probes in Nanospheres. Analytical Chemistry, 2016, 88, 3015-3018.	6.5	30
52	Ion-Selective Optical Nanosensors Based on Solvatochromic Dyes of Different Lipophilicity: From Bulk Partitioning to Interfacial Accumulation. ACS Sensors, 2016, 1, 516-520.	7.8	46
53	Potassium Sensitive Optical Nanosensors Containing Voltage Sensitive Dyes. Chimia, 2015, 69, 196.	0.6	5
54	Ion selective optodes: from the bulk to the nanoscale. Analytical and Bioanalytical Chemistry, 2015, 407, 3899-3910.	3.7	125

#	Article	IF	CITATIONS
55	Ion-Selective Optode Nanospheres as Heterogeneous Indicator Reagents in Complexometric Titrations. Analytical Chemistry, 2015, 87, 2827-2831.	6.5	18
56	Anion-Exchange Nanospheres as Titration Reagents for Anionic Analytes. Analytical Chemistry, 2015, 87, 8347-8352.	6.5	9
57	Charged Solvatochromic Dyes as Signal Transducers in pH Independent Fluorescent and Colorimetric Ion Selective Nanosensors. Analytical Chemistry, 2015, 87, 9954-9959.	6.5	62
58	Determination of Effective Stability Constants of Ion-Carrier Complexes in Ion Selective Nanospheres with Charged Solvatochromic Dyes. Analytical Chemistry, 2015, 87, 11587-11591.	6.5	24
59	Solvatochromic Dyes as pH-Independent Indicators for Ionophore Nanosphere-Based Complexometric Titrations. Analytical Chemistry, 2015, 87, 12318-12323.	6.5	20
60	Environmental Sensing of Aquatic Systems at the University of Geneva. Chimia, 2014, 68, 772-777.	0.6	1
61	Photocurrent generation based on a light-driven proton pump in an artificial liquid membrane. Nature Chemistry, 2014, 6, 202-207.	13.6	153
62	Potentiometric Response from Ion-Selective Nanospheres with Voltage-Sensitive Dyes. Journal of the American Chemical Society, 2014, 136, 16465-16468.	13.7	36
63	lonophore-based ion-exchange emulsions as novel class of complexometric titration reagents. Chemical Communications, 2014, 50, 12659-12661.	4.1	22
64	Potassium-selective optical microsensors based on surface modified polystyrene microspheres. Chemical Communications, 2014, 50, 4592-4595.	4.1	32
65	Creating electrochemical gradients by light: from bio-inspired concepts to photoelectric conversion. Physical Chemistry Chemical Physics, 2014, 16, 19781-19789.	2.8	25
66	pH Independent Nano-Optode Sensors Based on Exhaustive Ion-Selective Nanospheres. Analytical Chemistry, 2014, 86, 2853-2856.	6.5	75
67	Ionophore-Based Ion-Selective Optical NanoSensors Operating in Exhaustive Sensing Mode. Analytical Chemistry, 2014, 86, 8770-8775.	6.5	53
68	Chronopotentiometric Carbonate Detection with All-Solid-State Ionophore-Based Electrodes. Analytical Chemistry, 2014, 86, 6307-6314.	6.5	30
69	Visible light induced photoacid generation within plasticized PVC membranes for copper (II) ion extraction. Sensors and Actuators B: Chemical, 2014, 204, 807-810.	7.8	4
70	Photoelectric Conversion Based on Proton-Coupled Electron Transfer Reactions. Journal of the American Chemical Society, 2014, 136, 7857-7860.	13.7	28
71	Light-Controlled Reversible Release and Uptake of Potassium Ions from Ion-Exchanging Nanospheres. ACS Applied Materials & Interfaces, 2014, 6, 2666-2670.	8.0	28
72	Direct Alkalinity Detection with Ion-Selective Chronopotentiometry. Analytical Chemistry, 2014, 86, 6461-6470.	6.5	24

#	Article	IF	CITATIONS
73	Advancing Schwarzenbach's Complexometry: Nano-scale Titration Reagents Based on Heterogeneous Reactions. Chimia, 2014, 68, 899.	0.6	0
74	Non-Severinghaus Potentiometric Dissolved CO ₂ Sensor with Improved Characteristics. Analytical Chemistry, 2013, 85, 1332-1336.	6.5	49
75	Ultrasmall Fluorescent Ion-Exchanging Nanospheres Containing Selective Ionophores. Analytical Chemistry, 2013, 85, 9932-9938.	6.5	68
76	Oxazinoindolines as Fluorescent H ⁺ Turn-On Chromoionophores For Optical and Electrochemical Ion Sensors. Analytical Chemistry, 2013, 85, 7434-7440.	6.5	26
77	Photoresponsive Ion Extraction/Release Systems: Dynamic Ion Optodes for Calcium and Sodium Based on Photochromic Spiropyran. Analytical Chemistry, 2013, 85, 2983-2990.	6.5	34
78	Reversible Photodynamic Chloride-Selective Sensor Based on Photochromic Spiropyran. Journal of the American Chemical Society, 2012, 134, 16929-16932.	13.7	136
79	Direct Optical Carbon Dioxide Sensing Based on a Polymeric Film Doped with a Selective Molecular Tweezer-Type Ionophore. Analytical Chemistry, 2012, 84, 3163-3169.	6.5	47
80	Photodynamic ion sensor systems with spiropyran: photoactivated acidity changes in plasticized poly(vinyl chloride). Chemical Communications, 2012, 48, 5662.	4.1	31
81	Advancing Membrane Electrodes and Optical Ion Sensors. Chimia, 2011, 65, 141.	0.6	16
82	A dual functional near infrared fluorescent probe based on the bodipy fluorophores for selective detection of copper and aluminum ions. Sensors and Actuators B: Chemical, 2011, 156, 213-217.	7.8	103
83	Rhodamine-based ratiometric fluorescent ion-selective bulk optodes. Sensors and Actuators B:	7.8	22