

Xuwei Wang

List of Publications by Year in descending order

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38
papers

735
citations

516710

16
h-index

580821

25
g-index

38
all docs

38
docs citations

38
times ranked

919
citing authors

#	ARTICLE	IF	CITATIONS
1	An Ionophore-Based Anion-Selective Optode Printed on Cellulose Paper. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11826-11830.	13.8	64
2	Paper-based plasticizer-free sodium ion-selective sensor with camera phone as a detector. <i>Chemical Communications</i> , 2015, 51, 15176-15179.	4.1	51
3	Improved Hemocompatibility of Multilumen Catheters via Nitric Oxide (NO) Release from <i>S</i> -Nitroso- <i>N</i> -acetylpenicillamine (SNAP) Composite Filled Lumen. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29270-29279.	8.0	45
4	Potentiometric sensor for determination of neutral bisphenol A using a molecularly imprinted polymer as a receptor. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 4931-4936.	3.7	43
5	Label-Free and Substrate-Free Potentiometric Aptasensing Using Polycation-Sensitive Membrane Electrodes. <i>Analytical Chemistry</i> , 2012, 84, 2055-2061.	6.5	41
6	Inkjet-Printed Paper-Based Colorimetric Polyion Sensor Using a Smartphone as a Detector. <i>Analytical Chemistry</i> , 2017, 89, 12334-12341.	6.5	41
7	A Polymeric Liquid Membrane Electrode Responsive to 3,3',5,5'-Tetramethylbenzidine Oxidation for Sensitive Peroxidase/Peroxidase Mimetic-Based Potentiometric Biosensing. <i>Analytical Chemistry</i> , 2014, 86, 4416-4422.	6.5	33
8	Polymeric Membrane Neutral Phenol-Sensitive Electrodes for Potentiometric G-Quadruplex/Hemin DNAzyme-Based Biosensing. <i>Analytical Chemistry</i> , 2013, 85, 1945-1950.	6.5	28
9	Sensing of inorganic ions in microfluidic devices. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129171.	7.8	28
10	Pulsed Galvanostatic Control of a Polymeric Membrane Ion-Selective Electrode for Potentiometric Immunoassays. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9488-9493.	8.0	26
11	Potentiometric aptasensing based on target-induced conformational switch of a DNA probe using a polymeric membrane silver ion-selective electrode. <i>Biosensors and Bioelectronics</i> , 2013, 45, 148-151.	10.1	24
12	Nitric oxide-releasing semi-crystalline thermoplastic polymers: preparation, characterization and application to devise anti-inflammatory and bactericidal implants. <i>Biomaterials Science</i> , 2018, 6, 3189-3201.	5.4	24
13	Carbohydrate-functionalized polythiophene biointerface: design, fabrication, characterization and application for protein analysis. <i>Applied Surface Science</i> , 2019, 486, 561-570.	6.1	23
14	Nitric oxide release for improving performance of implantable chemical sensors – A review. <i>Applied Materials Today</i> , 2017, 9, 589-597.	4.3	21
15	Plasticizer-Free Thin-Film Sodium-Selective Optodes Inkjet-Printed on Transparent Plastic for Sweat Analysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25616-25624.	8.0	21
16	Ionophore-Based Biphasic Chemical Sensing in Droplet Microfluidics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8092-8096.	13.8	17
17	Reporter-Free Potentiometric Sensing of Boronic Acids and Their Reactions by Using Quaternary Ammonium Salt-Functionalized Polymeric Liquid Membranes. <i>Analytical Chemistry</i> , 2014, 86, 1927-1931.	6.5	15
18	A moving-part-free protamine-sensitive polymeric membrane electrode for sensitive biomedical analyses. <i>Biosensors and Bioelectronics</i> , 2012, 38, 145-150.	10.1	14

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19	Platinum–Nickel Bimetallic Nanosphere–Ionic Liquid Interface for Electrochemical Oxygen and Hydrogen Sensing. <i>ACS Applied Nano Materials</i> , 2019, 2, 2958-2968.	5.0	14
20	Reactive intermediates-induced potential responses of a polymeric membrane electrode for ultrasensitive potentiometric biosensing. <i>Chemical Communications</i> , 2012, 48, 4073.	4.1	13
21	Colorimetric copper ion sensing in solution phase and on paper substrate based on catalytic decomposition of S-nitrosothiol. <i>Analytica Chimica Acta</i> , 2019, 1053, 155-161.	5.4	13
22	An enzyme-free glucose sensor based on a difunctional diboronic acid for molecular recognition and potentiometric transduction. <i>RSC Advances</i> , 2015, 5, 13805-13808.	3.6	12
23	Buffer concentration dramatically affects the stability of S-nitrosothiols in aqueous solutions. <i>Nitric Oxide - Biology and Chemistry</i> , 2022, 118, 59-65.	2.7	11
24	Tetra(p-tolyl)borate-Functionalized Solvent Polymeric Membrane: A Facile and Sensitive Sensing Platform for Peroxidase and Peroxidase Mimetics. <i>Chemistry - A European Journal</i> , 2013, 19, 9979-9986.	3.3	10
25	Detection and Quantification of Polyquaterniums via Polyion-Sensitive Ion-Selective Optodes Inkjet Printed on Cellulose Paper. <i>Analytical Sciences</i> , 2018, 34, 45-50.	1.6	10
26	Primary-ion-conditioned polymeric membrane electrodes for sensitive detection of polyions. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 1119-1123.	7.8	9
27	Detecting levels of polyquaternium-10 (PQ-10) via potentiometric titration with dextran sulphate and monitoring the equivalence point with a polymeric membrane-based polyion sensor. <i>Analytical Methods</i> , 2016, 8, 5806-5811.	2.7	9
28	Ionophore-Based Biphasic Chemical Sensing in Droplet Microfluidics. <i>Angewandte Chemie</i> , 2019, 131, 8176-8180.	2.0	9
29	Plasticizer-free and pH-independent ion-selective optode films based on a solvatochromic dye. <i>Analytical Methods</i> , 2020, 12, 2547-2550.	2.7	9
30	S-Nitrosothiol-Impregnated Silicone Catheter for Colorimetric Sensing of Indole and E. coli: Toward On-Body Detection of Urinary Tract Infections. <i>ACS Sensors</i> , 2022, 7, 1712-1719.	7.8	9
31	Polyion-Sensitive Polymeric Membrane-Based Pulstrode as a Potentiometric Detector in Liquid Chromatography. <i>Electroanalysis</i> , 2015, 27, 1823-1828.	2.9	8
32	Performance of Amperometric Platinized-Nafion Based Gas Phase Sensor for Determining Nitric Oxide (NO) Levels in Exhaled Human Nasal Breath. <i>Electroanalysis</i> , 2018, 30, 1610-1615.	2.9	7
33	3D Printing of Antibacterial Polymer Devices Based on Nitric Oxide Release from Embedded S-Nitrosothiol Crystals. <i>ACS Applied Bio Materials</i> , 2021, 4, 7653-7662.	4.6	7
34	Electrochemical Sensing System for Determination of Heavy Metals in Seawater. <i>Chinese Journal of Analytical Chemistry</i> , 2012, 40, 670-674.	1.7	6
35	An Ionophore-Based Anion-Selective Optode Printed on Cellulose Paper. <i>Angewandte Chemie</i> , 2017, 129, 11988-11992.	2.0	6
36	Ion-Induced Phase Transfer of Cationic Dyes for Fluorescence-Based Electrolyte Sensing in Droplet Microfluidics. <i>Analytical Chemistry</i> , 2021, 93, 13694-13702.	6.5	6

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37	Enhancement of Inducible Nitric Oxide Synthase Activity by Low Molecular Weight Peptides Derived from Protamine: A Potential Therapy for Chronic Rhinosinusitis. <i>Molecular Pharmaceutics</i> , 2015, 12, 2396-2405.	4.6	4
38	Digital printing of selective and reversible ion optodes on fabrics: toward smart clothes for epidermal chemical sensing. <i>Analyst, The</i> , 2021, 146, 6119-6123.	3.5	4