Xiayan Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Development of <scp>Ultranarrowâ€Bore</scp> Open Tubular High Efficiency Liquid Chromatography. Chinese Journal of Chemistry, 2022, 40, 137-152.	4.9	3
2	Investigation of metformin hydrochloride–bovine serum albumin interaction by narrow-bore capillary zone electrophoresis. Chemical Communications, 2022, 58, 2926-2929.	4.1	2
3	Determination of Nanoplastics Using a Novel Contactless Conductivity Detector with Controllable Geometric Parameters. Analytical Chemistry, 2022, 94, 1552-1558.	6.5	10
4	Controllable Fabrication of Small-Size Holding Pipets for the Nondestructive Manipulation of Suspended Living Single Cells. Analytical Chemistry, 2022, 94, 4924-4929.	6.5	2
5	Selective Catalytic Oxidation of Methane to Methanol in Aqueous Medium over Copper Cations Promoted by Atomically Dispersed Rhodium on TiO ₂ . Angewandte Chemie - International Edition, 2022, 61, e202201540.	13.8	29
6	Displacement Reaction-Assisted Synthesis of Sub-Nanometer Pt/Bi Boost Methanol-Tolerant Fuel Cells. Nanomaterials, 2022, 12, 1301.	4.1	2
7	Inhibitory effects of zinc chloride (ZnCl2), n-acetyl-L-cysteine (NAC), and calcium/calmodulin dependent protein kinase II inhibitor (KN93) on Cd2+-induced abnormal cell morphology and membrane permeability. Science of the Total Environment, 2022, 833, 155208.	8.0	1
8	Analytical methods for obtaining binding parameters of drug–protein interactions: A review. Analytica Chimica Acta, 2022, 1219, 340012.	5.4	12
9	Evaluation of the effect of nitrate and chloride on Cd(<scp>ii</scp>)-induced cell oxidative stress by scanning electrochemical microscopy. Analytical Methods, 2022, 14, 2673-2681.	2.7	2
10	Intact living-cell electrolaunching ionization mass spectrometry for single-cell metabolomics. Chemical Science, 2022, 13, 8065-8073.	7.4	12
11	Recent advances of carbon dots as new antimicrobial agents. SmartMat, 2022, 3, 226-248.	10.7	56
12	Recent Advances of Ceriaâ€Based Materials in the Oxidation of Carbon Monoxide. Small Structures, 2021, 2, 2000081.	12.0	26
13	A pico-HPLC-LIF system for the amplification-free determination of multiple miRNAs in cells. Chinese Chemical Letters, 2021, 32, 2183-2186.	9.0	9
14	Substitutionally Dispersed Highâ€Oxidation CoO <i>_x</i> Clusters in the Lattice of Rutile TiO ₂ Triggering Efficient CoTi Cooperative Catalytic Centers for Oxygen Evolution Reactions. Advanced Functional Materials, 2021, 31, 2009610.	14.9	82
15	Real-time effects of Cd(<scp>ii</scp>) on the cellular membrane permeability. Analyst, The, 2021, 146, 5973-5979.	3.5	6
16	Autonomous operation of 3D DNA walkers in living cells for microRNA imaging. Nanoscale, 2021, 13, 1863-1868.	5.6	29
17	Water management by hierarchical structures for highly efficient solar water evaporation. Journal of Materials Chemistry A, 2021, 9, 7122-7128.	10.3	34
18	Photocatalyst for Highâ€Performance H 2 Production: Gaâ€Doped Polymeric Carbon Nitride. Angewandte Chemie, 2021, 133, 6189-6194.	2.0	21

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19	Photocatalyst for Highâ€Performance H ₂ Production: Gaâ€Doped Polymeric Carbon Nitride. Angewandte Chemie - International Edition, 2021, 60, 6124-6129.	13.8	108
20	Visually precise, low-damage, single-cell spatial manipulation with single-pixel resolution. Chemical Science, 2021, 12, 4111-4118.	7.4	7
21	Solid-phase microextraction integrated nanobiosensors for the serial detection of cytoplasmic dopamine in a single living cell. Biosensors and Bioelectronics, 2021, 175, 112915.	10.1	22
22	Metal Cluster-Based Electrochemical Biosensing System for Detecting Epithelial-to-Mesenchymal Transition. ACS Sensors, 2021, 6, 2290-2298.	7.8	7
23	Ultra-thin temperature controllable microwell array chip for continuous real-time high-resolution imaging of living single cells. Chinese Chemical Letters, 2021, 32, 3446-3449.	9.0	8
24	Continuous-flow rapid and controllable microfluidic synthesis of sodium vanadium fluorophosphate as a cathode material. Applied Materials Today, 2021, 23, 101032.	4.3	11
25	Silica-Based Nanopipettes for Rapid Living Single-Cell Transfection. ACS Applied Nano Materials, 2021, 4, 6956-6963.	5.0	4
26	CoNi Alloy Nanoparticles Encapsulated in N-Doped Graphite Carbon Nanotubes as an Efficient Electrocatalyst for Oxygen Reduction Reaction in an Alkaline Medium. ACS Sustainable Chemistry and Engineering, 2021, 9, 8207-8213.	6.7	20
27	Controlled synthesis of fluorescent carbon materials with the assistance of capillary electrophoresis. Talanta, 2021, 228, 122224.	5.5	8
28	A DNAzyme-Based Dual-Stimuli Responsive Electrochemiluminescence Resonance Energy Transfer Platform for Ultrasensitive Anatoxin-a Detection. Analytical Chemistry, 2021, 93, 11284-11290.	6.5	34
29	Investigation of the molecular structure complexity of dissolved organic matter by UPLC-orbitrap MS/MS. Talanta, 2021, 230, 122320.	5.5	5
30	Extension of hydrodynamic chromatography to DNA fragment sizing and quantitation. Heliyon, 2021, 7, e07904.	3.2	2
31	Low-cost devices with fluorescence spots brightness and size dual-mode readout for the rapid detection of Cr(VI) based on smartphones. Journal of Hazardous Materials, 2021, 417, 125986.	12.4	19
32	Single-cell metabolite analysis by electrospray ionization mass spectrometry. TrAC - Trends in Analytical Chemistry, 2021, 143, 116351.	11.4	25
33	An integrated strategy for the construction of a species-specific glycan library for mass spectrometry-based intact glycopeptide analyses. Talanta, 2021, 234, 122626.	5.5	1
34	Robust and easy-to-use microchip electrophoresis within sub-millimeter channels for fast and highly efficient separation. Talanta, 2021, 235, 122747.	5.5	6
35	Electrochemical sensor based on the Mn ₃ O ₄ /CeO ₂ nanocomposite with abundant oxygen vacancies for highly sensitive detection of hydrogen peroxide released from living cells. Analytical Methods, 2021, 13. 1672-1680.	2.7	11
36	Single-atom Au catalyst loaded on CeO2: A novel single-atom nanozyme electrochemical H2O2 sensor. Talanta Open, 2021, 4, 100075.	3.7	19

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37	Ultrasensitive detection of miRNA based on efficient immobilization of probe and electrochemiluminescent quenching of Ru(bpy)32+ by methylene blue. Analytica Chimica Acta, 2020, 1093, 52-60.	5.4	13
38	Inhibition of oxygen dimerization by local symmetry tuning in Li-rich layered oxides for improved stability. Nature Communications, 2020, 11, 4973.	12.8	66
39	Electric Field-Driven On-Request Instant in Situ Formation/Removal of Solid Hydrogel within Microchannels for Efficient Electrophoretic Separation. ACS Applied Materials & Interfaces, 2020, 12, 8773-8779.	8.0	3
40	An artificial metalloenzyme for catalytic cancer-specific DNA cleavage and operando imaging. Science Advances, 2020, 6, eabb1421.	10.3	56
41	Transparent Coating with TiO2 Nanorods for High-performance Photocatalytic Self-cleaning and Environmental Remediation. Chemical Research in Chinese Universities, 2020, 36, 1097-1101.	2.6	3
42	Aggregation-Induced Electrochemiluminescence of the Dichlorobis(1,10-phenanthroline)ruthenium(II) (Ru(phen) ₂ Cl ₂)/Tri- <i>n</i> propylamine (TPrA) System in H ₂ O–MeCN Mixtures for Identification of Nucleic Acids. Analytical Chemistry, 2020, 92, 9613-9619.	6.5	27
43	Highly efficient wurtzite/zinc blende CdS visible light photocatalyst with high charge separation efficiency and stability. Journal of Chemical Physics, 2020, 152, 244703.	3.0	8
44	A scalable synthesis of ternary nanocatalysts for a high-efficiency electrooxidation catalysis by microfluidics. Nanoscale, 2020, 12, 12647-12654.	5.6	11
45	Wavelength selective photoactivated autocatalytic oxidation of 5,12-dihydrobenzo[<i>b</i>]phenazine and its application in metal-free synthesis. RSC Advances, 2020, 10, 9949-9954.	3.6	1
46	Photocontrolled Thermosensitive Electrochemiluminescence Hydrogel for Isocarbophos Detection. Analytical Chemistry, 2020, 92, 6136-6143.	6.5	30
47	Single-particle-frit-based packed columns for microchip chromatographic analysis of neurotransmitters. Talanta, 2020, 215, 120896.	5.5	8
48	Controllable fabrication of pico/femtoliter pipette sampling probes and visual sample volume determination. Talanta, 2020, 218, 121096.	5.5	5
49	Microfluidics revealing formation mechanism of intermetallic nanocrystals. Nano Energy, 2020, 70, 104565.	16.0	12
50	Synthesis of nano-Na3V2(PO4)2F3 cathodes with excess Na+ intercalation for enhanced capacity. Applied Materials Today, 2020, 19, 100554.	4.3	5
51	Visual and real-time imaging focusing for highly sensitive laser-induced fluorescence detection at yoctomole levels in nanocapillaries. Chemical Communications, 2020, 56, 2423-2426.	4.1	12
52	White Emissive Carbon Dots Actuated by the H-/J-Aggregates and Förster Resonance Energy Transfer. Journal of Physical Chemistry Letters, 2019, 10, 3849-3857.	4.6	53
53	Deliberate construction of direct <i>Z</i> -scheme photocatalysts through photodeposition. Journal of Materials Chemistry A, 2019, 7, 18348-18356.	10.3	85
54	Facile Evaluation of Nanoparticle–Protein Interaction Based on Charge Neutralization with Pulsed Streaming Potential Measurement. Analytical Chemistry, 2019, 91, 15670-15677.	6.5	4

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55	A carbon-supported BiSn nanoparticles based novel sensor for sensitive electrochemical determination of Cd (II) ions. Talanta, 2019, 202, 27-33.	5.5	30
56	Inâ€ŧube solidâ€phase microextraction capillary column packed with mesoporous TiO ₂ nanoparticles for phosphopeptide analysis. Electrophoresis, 2019, 40, 2142-2148.	2.4	8
57	Distinct correlation between (CN2)x units and pores: a low-cost method for predesigned wide range control of micropore size of porous carbon. Chemical Communications, 2019, 55, 3963-3966.	4.1	6
58	Three-electron reversible redox for a high-energy fluorophosphate cathode: Na ₃ V ₂ O ₂ (PO ₄) ₂ F. Chemical Communications, 2019, 55, 3979-3982.	4.1	18
59	Advancement of electroosmotic pump in microflow analysis: A review. Analytica Chimica Acta, 2019, 1060, 1-16.	5.4	67
60	GO-META-TiO2 composite monolithic columns for in-tube solid-phase microextraction of phosphopeptides. Talanta, 2019, 192, 360-367.	5.5	26
61	A disposable electrochemical aptasensor using single-stranded DNA–methylene blue complex as signal-amplification platform for sensitive sensing of bisphenol A. Sensors and Actuators B: Chemical, 2019, 284, 73-80.	7.8	51
62	Electrogenerated Chemiluminescence Biosensor with a Tripod Probe for the Highly Sensitive Detection of MicroRNA. Analytical Chemistry, 2019, 91, 1452-1459.	6.5	43
63	Gas phase reaction between chromones and solvent in an electrospray ionization source. Journal of Mass Spectrometry, 2019, 54, 66-72.	1.6	2
64	Plasma-assisted alignment in the fabrication of microchannel-array-based in-tube solid-phase microextraction microchips packed with TiO 2 nanoparticles for phosphopeptide analysis. Analytica Chimica Acta, 2018, 1018, 70-77.	5.4	28
65	Synthesis of PtAu Alloy Nanocrystals in Micelle Nanoreactors Enabled by Flash Heating and Cooling. Particle and Particle Systems Characterization, 2018, 35, 1700413.	2.3	9
66	Anomalous enhancement of fluorescence of carbon dots through lanthanum doping and potential application in intracellular imaging of ferric ion. Nano Research, 2018, 11, 1369-1378.	10.4	40
67	In situ enhanced electrochemiluminescence based on co-reactant self-generated for sensitive detection of microRNA. Sensors and Actuators B: Chemical, 2018, 255, 35-41.	7.8	19
68	Pico-HPLC system integrating an equal inner diameter femtopipette into a 900 nm I.D. porous layer open tubular column. Chemical Communications, 2017, 53, 4104-4107.	4.1	29
69	Pair of Stereodynamic Chiral Benzylicaldehyde Probes for Determination of Absolute Configuration of Absolute Sonfiguration of Amino Acid Residues in Peptides by Mass Spectrometry. Analytical Chemistry, 2017, 89, 11902-11907.	6.5	24
70	Development and Validation of an HPLC Method for Simultaneous Determination of Ibuprofen and 17 Related Compounds. Chromatographia, 2017, 80, 1353-1360.	1.3	19
71	Microfluidic Synthesis Enables Dense and Uniform Loading of Surfactantâ€Free PtSn Nanocrystals on Carbon Supports for Enhanced Ethanol Oxidation. Angewandte Chemie - International Edition, 2016, 55, 4952-4956.	13.8	73
72	A strategy to modulate the electrophoretic behavior in plastic microchips using sodium polystyrene sulfonate. Journal of Chromatography A, 2016, 1477, 132-140.	3.7	4

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73	Complexation and intercalation modes: a novel interaction of DNA and graphene quantum dots. RSC Advances, 2016, 6, 33072-33075.	3.6	11
74	Use of Pulsed Streaming Potential with a Prepared Cationic Polyelectrolyte Layer to Detect Deposition Kinetics of Graphene Oxide and Consequences of Particle Size Differences. Analytical Chemistry, 2016, 88, 10437-10444.	6.5	2
75	Microfluidic Synthesis Enables Dense and Uniform Loading of Surfactantâ€Free PtSn Nanocrystals on Carbon Supports for Enhanced Ethanol Oxidation. Angewandte Chemie, 2016, 128, 5036-5040.	2.0	3
76	Proton Conductivities in Functionalized UiO-66: Tuned Properties, Thermogravimetry Mass, and Molecular Simulation Analyses. Crystal Growth and Design, 2015, 15, 5827-5833.	3.0	191
77	Direct Electrochemistry of Glucose Oxidase on a Three-Dimensional Porous Zirconium Phosphate–Carbon Aerogel Composite. Electrocatalysis, 2015, 6, 341-347.	3.0	9
78	Highly fluorescent polymeric nanoparticles based on melamine for facile detection of TNT in soil. Journal of Materials Chemistry A, 2015, 3, 10069-10076.	10.3	46
79	Double-helix micro-channels on microfluidic chips for enhanced continuous on-chip derivatization followed by electrophoretic separation. Biosensors and Bioelectronics, 2015, 72, 376-382.	10.1	9
80	Influence of elution conditions on DNA transport behavior in free solution by hydrodynamic chromatography. Science China Chemistry, 2015, 58, 1605-1611.	8.2	5
81	One-Step, Facile and Ultrafast Synthesis of Phase- and Size-Controlled Pt–Bi Intermetallic Nanocatalysts through Continuous-Flow Microfluidics. Journal of the American Chemical Society, 2015, 137, 6263-6269.	13.7	90
82	Rutheniumâ€Oxideâ€Coated Sodium Vanadium Fluorophosphate Nanowires as Highâ€Power Cathode Materials for Sodiumâ€lon Batteries. Angewandte Chemie - International Edition, 2015, 54, 6452-6456.	13.8	132
83	Study of Lithium Migration Pathways in the Organic Electrode Materials of Li-Battery by Dispersion-Corrected Density Functional Theory. Journal of Physical Chemistry C, 2015, 119, 25719-25725.	3.1	24
84	Electrocatalytic Dechlorination of Atrazine Using Binuclear Iron Phthalocyanine as Electrocatalysts. Electrocatalysis, 2014, 5, 68-74.	3.0	20
85	Separations of substituted benzenes and polycyclic aromatic hydrocarbons using normal- and reverse-phase high performance liquid chromatography with UiO-66 as the stationary phase. Journal of Chromatography A, 2014, 1370, 121-128.	3.7	64
86	High-Resolution Hydrodynamic Chromatographic Separation of Large DNA Using Narrow, Bare Open Capillaries: A Rapid and Economical Alternative Technology to Pulsed-Field Gel Electrophoresis?. Analytical Chemistry, 2014, 86, 729-736.	6.5	26
87	High-performance self-organized Si nanocomposite anode for lithium-ion batteries. Journal of Energy Chemistry, 2014, 23, 291-300.	12.9	10
88	Resolving DNA at efficiencies of more than a million plates per meter using bare narrow open capillaries without sieving matrices. Chemical Communications, 2013, 49, 2897.	4.1	13
89	Effect of Temperature on DNA Chromatographic Separation in Free Solution. Chemistry Letters, 2012, 41, 1506-1508.	1.3	5
90	Supported sub-5nm Pt–Fe intermetallic compounds for electrocatalytic application. Journal of Materials Chemistry, 2012, 22, 6047.	6.7	70

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91	Facile one-step photochemical synthesis of water soluble CdTe(S) nanocrystals with high quantum yields. Journal of Materials Chemistry, 2012, 22, 6367.	6.7	17
92	Pressure-Induced Transport of DNA Confined in Narrow Capillary Channels. Journal of the American Chemical Society, 2012, 134, 7400-7405.	13.7	35
93	DFT Study of Polyaniline and Metal Composites as Nonprecious Metal Catalysts for Oxygen Reduction in Fuel Cells. Journal of Physical Chemistry C, 2012, 116, 22737-22742.	3.1	39
94	Resolving DNA in free solution. TrAC - Trends in Analytical Chemistry, 2012, 35, 122-134.	11.4	13
95	Flow Batteries for Microfluidic Networks: Configuring An Electroosmotic Pump for Nonterminal Positions. Analytical Chemistry, 2011, 83, 2430-2433.	6.5	24
96	Free Solution Hydrodynamic Separation of DNA Fragments from 75 to 106 000 Base Pairs in A Single Run. Journal of the American Chemical Society, 2010, 132, 40-41.	13.7	50
97	Electroosmotic pumps and their applications in microfluidic systems. Microfluidics and Nanofluidics, 2009, 6, 145-162.	2.2	274
98	Electroosmotic pumps for microflow analysis. TrAC - Trends in Analytical Chemistry, 2009, 28, 64-74.	11.4	74
99	Nanocapillaries for Open Tubular Chromatographic Separations of Proteins in Femtoliter to Picoliter Samples. Analytical Chemistry, 2009, 81, 7428-7435.	6.5	52
100	Chromatographic separations in a nanocapillary under pressure-driven conditions. Journal of Chromatography A, 2008, 1200, 108-113.	3.7	39
101	Bare Nanocapillary for DNA Separation and Genotyping Analysis in Gel-Free Solutions without Application of External Electric Field. Analytical Chemistry, 2008, 80, 5583-5589.	6.5	46
102	Electroosmosis-Based Nanopipettor. Analytical Chemistry, 2007, 79, 3862-3866.	6.5	26
103	Selective Catalytic Oxidation of Methane to Methanol in Aqueous Medium over Copper Cations Promoted by Atomically Dispersed Rhodium on TiO ₂ . Angewandte Chemie, 0, , .	2.0	3