Xiaoyan Wang

List of Publications by Year
in descending order

77 papers	7,491 citations	66343 42 h-index	74163 75 g-index
77 all docs	77 docs citations	77 times ranked	6545 citing authors

#	Article	IF	Citations
1	Molecular imprinting: perspectives and applications. Chemical Society Reviews, 2016, 45, 2137-2211.	38.1	1,788
2	Molecular Imprinting: Green Perspectives and Strategies. Advanced Materials, 2021, 33, e2100543.	21.0	359
3	Strategies of molecular imprinting-based solid-phase extraction prior to chromatographic analysis. TrAC - Trends in Analytical Chemistry, 2020, 128, 115923.	11.4	313
4	Dummy molecularly imprinted polymers based on a green synthesis strategy for magnetic solid-phase extraction of acrylamide in food samples. Talanta, 2019, 195, 390-400.	5.5	302
5	Strategies of molecular imprinting-based fluorescence sensors for chemical and biological analysis. Biosensors and Bioelectronics, 2018, 112, 54-71.	10.1	288
6	Plasmonic colorimetric sensors based on etching and growth of noble metal nanoparticles: Strategies and applications. Biosensors and Bioelectronics, 2018, 114, 52-65.	10.1	281
7	Magnetic copper-based metal organic framework as an effective and recyclable adsorbent for removal of two fluoroquinolone antibiotics from aqueous solutions. Journal of Colloid and Interface Science, 2018, 528, 360-371.	9.4	244
8	Label-free SERS detection of Raman-Inactive protein biomarkers by Raman reporter indicator: Toward ultrasensitivity and universality. Biosensors and Bioelectronics, 2021, 174, 112825.	10.1	181
9	Water-compatible temperature and magnetic dual-responsive molecularly imprinted polymers for recognition and extraction of bisphenol A. Journal of Chromatography A, 2016, 1435, 30-38.	3.7	165
10	Molecular Imprinting Based Hybrid Ratiometric Fluorescence Sensor for the Visual Determination of Bovine Hemoglobin. ACS Sensors, 2018, 3, 378-385.	7.8	157
11	A molecular imprinting-based turn-on Ratiometric fluorescence sensor for highly selective and sensitive detection of 2,4-dichlorophenoxyacetic acid (2,4-D). Biosensors and Bioelectronics, 2016, 81, 438-444.	10.1	153
12	Magnetic solid-phase extraction of heterocyclic pesticides in environmental water samples using metal-organic frameworks coupled to high performance liquid chromatography determination. Journal of Chromatography A, 2018, 1553, 57-66.	3.7	151
13	Rotational Paper-Based Microfluidic-Chip Device for Multiplexed and Simultaneous Fluorescence Detection of Phenolic Pollutants Based on a Molecular-Imprinting Technique. Analytical Chemistry, 2018, 90, 11827-11834.	6.5	140
14	Molecular-Imprinting-Based Surface-Enhanced Raman Scattering Sensors. ACS Sensors, 2020, 5, 601-619.	7.8	139
15	Quantum Dots Based Mesoporous Structured Imprinting Microspheres for the Sensitive Fluorescent Detection of Phycocyanin. ACS Applied Materials & Interfaces, 2015, 7, 9118-9127.	8.0	128
16	One-pot synthesis of a quantum dot-based molecular imprinting nanosensor for highly selective and sensitive fluorescence detection of 4-nitrophenol in environmental waters. Environmental Science: Nano, 2017, 4, 493-502.	4.3	121
17	The strategy of antibody-free biomarker analysis by in-situ synthesized molecularly imprinted polymers on movable valve paper-based device. Biosensors and Bioelectronics, 2019, 142, 111533.	10.1	120
18	Fluorescent probe for mercury ion imaging analysis: Strategies and applications. Chemical Engineering Journal, 2021, 406, 127166.	12.7	117

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19	Ternary Emission of a Blue-, Green-, and Red-Based Molecular Imprinting Fluorescence Sensor for the Multiplexed and Visual Detection of Bovine Hemoglobin. Analytical Chemistry, 2019, 91, 6561-6568.	6.5	113
20	Multi-template imprinted polymers for simultaneous selective solid-phase extraction of six phenolic compounds in water samples followed by determination using capillary electrophoresis. Journal of Chromatography A, 2017, 1483, 30-39.	3.7	110
21	Ratiometric fluorescence sensor based on dithiothreitol modified carbon dots-gold nanoclusters for the sensitive detection of mercury ions in water samples. Sensors and Actuators B: Chemical, 2018, 262, 810-817.	7.8	109
22	Determination of phthalate esters in environmental water by magnetic Zeolitic Imidazolate Framework-8 solid-phase extraction coupled with high-performance liquid chromatography. Journal of Chromatography A, 2015, 1409, 46-52.	3.7	108
23	Green multi-functional monomer based ion imprinted polymers for selective removal of copper ions from aqueous solution. Journal of Colloid and Interface Science, 2019, 541, 376-386.	9.4	105
24	Dual-template molecularly imprinted polymers for dispersive solid-phase extraction of fluoroquinolones in water samples coupled with high performance liquid chromatography. Analyst, The, 2019, 144, 1292-1302.	3.5	102
25	Ratiometric fluorescence and colorimetry dual-mode assay based on manganese dioxide nanosheets for visual detection of alkaline phosphatase activity. Sensors and Actuators B: Chemical, 2020, 302, 127176.	7.8	89
26	Cationic metal-organic frameworks as an efficient adsorbent for the removal of 2,4-dichlorophenoxyacetic acid from aqueous solutions. Environmental Research, 2020, 186, 109542.	7.5	86
27	Molecular imprinting ratiometric fluorescence sensor for highly selective and sensitive detection of phycocyanin. Biosensors and Bioelectronics, 2016, 77, 624-630.	10.1	80
28	Magnetic molecularly imprinted polymers for the fluorescent detection of trace 17Î²-estradiol in environmental water. Sensors and Actuators B: Chemical, 2017, 238, 1309-1315.	7.8	73
29	One-pot synthesis of magnetic molecularly imprinted microspheres by RAFT precipitation polymerization for the fast and selective removal of 17Î²-estradiol. RSC Advances, 2015, 5, 10611-10618.	3.6	71
30	Molecularly imprinted polymers based materials and their applications in chromatographic and electrophoretic separations. TrAC - Trends in Analytical Chemistry, 2022, 146, 116504.	11.4	69
31	Novel monodisperse molecularly imprinted shell for estradiol based on surface imprinted hollow vinyl-SiO2 particles. Talanta, 2014, 124, 7-13.	5.5	63
32	Multi-emitting fluorescence sensor of MnO₂â€“OPDâ€“QD for the multiplex and visual detection of ascorbic acid and alkaline phosphatase. Journal of Materials Chemistry C, 2020, 8, 5554-5561.	5.5	62
33	Facile approach to the synthesis of molecularly imprinted ratiometric fluorescence nanosensor for the visual detection of folic acid. Food Chemistry, 2020, 319, 126575.	8.2	59
34	Quantum dots based imprinting fluorescent nanosensor for the selective and sensitive detection of phycocyanin: A general imprinting strategy toward proteins. Sensors and Actuators B: Chemical, 2018, 255, 268-274.	7.8	58
35	Graphene quantum dots combined with copper(II) ions as a fluorescent probe for turn-on detection of sulfide ions. Mikrochimica Acta, 2015, 182, 2139-2146.	5.0	55
36	Fluorescent nanosensor designing via hybrid of carbon dots and post-imprinted polymers for the detection of ovalbumin. Talanta, 2020, 211, 120727.	5.5	53

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37	Bronzeâ€Phase TiO₂ as Anode Materials in Lithium and Sodiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	14.9	53
38	Thermosensitive molecularly imprinted coreâ€“shell CdTe quantum dots as a ratiometric fluorescence nanosensor for phycocyanin recognition and detection in seawater. Analyst, The, 2018, 143, 3570-3578.	3.5	52
39	Preparation of mixed-matrix membranes from metal organic framework (MIL-53) and poly (vinylidene) Tj ETQq1 1 0.784314 rgBT /Ove performance liquid chromatography. Journal of Colloid and Interface Science, 2019, 553, 834-844.	9.4	51
40	Rational construction of a triple emission molecular imprinting sensor for accurate naked-eye detection of folic acid. Nanoscale, 2020, 12, 6529-6536.	5.6	49
41	Synthesis of multi-ion imprinted polymers based on dithizone chelation for simultaneous removal of Hg²⁺, Cd²⁺, Ni²⁺ and Cu²⁺ from aqueous solutions. RSC Advances, 2016, 6, 44087-44095.	3.6	48
42	Dual-emission color-controllable nanoparticle based molecular imprinting ratiometric fluorescence sensor for the visual detection of Brilliant Blue. Sensors and Actuators B: Chemical, 2019, 284, 428-436.	7.8	48
43	Switchable zipper-like thermoresponsive molecularly imprinted polymers for selective recognition and extraction of estradiol. Talanta, 2018, 176, 187-194.	5.5	39
44	Onâ€“Offâ€“On Fluorescent Chemosensors Based on N/P-Codoped Carbon Dots for Detection of Microcystin-LR. ACS Applied Nano Materials, 2021, 4, 6852-6860.	5.0	37
45	Magnetic covalent-organic frameworks for the simultaneous extraction of eleven emerging aromatic disinfection byproducts in water samples coupled with UHPLCâ€“MS/MS determination. Journal of Hazardous Materials, 2022, 424, 127687.	12.4	36
46	Using Response Surface Methodology to Optimize Countercurrent Chromatographic Separation of Polyphenol Compounds from Fenugreek (Trigonella foenum-graecum L.) Seeds. Journal of Liquid Chromatography and Related Technologies, 2015, 38, 29-35.	1.0	31
47	Dual-Emissive Near-Infrared Carbon Dot-Based Ratiometric Fluorescence Sensor for Lysozyme. ACS Applied Nano Materials, 2022, 5, 1656-1663.	5.0	29
48	Determination of carbohydrates as their 3-aminophthalhydrazide derivatives by capillary zone electrophoresis with on-line chemiluminescence detection. Journal of Chromatography A, 2003, 992, 181-191.	3.7	28
49	A carbon dot-based fluorescent nanoprobe for the associated detection of iron ions and the determination of the fluctuation of ascorbic acid induced by hypoxia in cells and in vivo. Analyst, The, 2019, 144, 6609-6616.	3.5	28
50	Structural Insights into the Molecular Recognition between Cerebral Cavernous Malformation 2 and Mitogen-Activated Protein Kinase Kinase Kinase 3. Structure, 2015, 23, 1087-1096.	3.3	25
51	Functional ZnS:Mn(II) quantum dot modified with L-cysteine and 6-mercaptonicotinic acid as a fluorometric probe for copper(II). Mikrochimica Acta, 2018, 185, 420.	5.0	24
52	Detection of hypochlorous acid fluctuation via a selective fluorescent probe in acute lung injury cells and mouse models. Journal of Materials Chemistry B, 2020, 8, 9899-9905.	5.8	23
53	Rational design of a nitroreductase-activatable two-photon fluorescent probe for hypoxia imaging in cell and in vivo. Sensors and Actuators B: Chemical, 2020, 310, 127755.	7.8	23
54	Determination of anionic perfluorinated compounds in water samples using cationic fluorinated metal organic framework membrane coupled with UHPLCâ€“MS/MS. Journal of Hazardous Materials, 2022, 429, 128333.	12.4	23

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55	Separation and purification of four oligostilbenes from Iris lactea Pall. var. chinensis (Fisch.) Koidz by high-speed counter-current chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 988, 127-134.	2.3	20
56	Multi-Walled Carbon Nanotubes for Magnetic Solid-Phase Extraction of Six Heterocyclic Pesticides in Environmental Water Samples Followed by HPLC-DAD Determination. Materials, 2020, 13, 5729.	2.9	20
57	Enhancing anti-interference ability of molecularly imprinted ratiometric fluorescence sensor via differential strategy demonstrated by the detection of bovine hemoglobin. Sensors and Actuators B: Chemical, 2020, 322, 128581.	7.8	17
58	Separation and Purification of Five Flavone Glucosides and One Lignan from Caragana korshinskii Kom. by the Combination of HSCCC and Semi-preparative RPLC. Chromatographia, 2016, 79, 823-831.	1.3	15
59	A ratiometric fluorescent probe for detecting the endogenous biological signaling molecule superoxide anion and bioimaging during tumor treatment. Journal of Materials Chemistry B, 2020, 8, 1017-1025.	5.8	15
60	Comprehensive Comparisons between 1-Phenyl-3-methyl-5-pyrazolones, 1-(4-Methoxyphenyl)-3-methyl-5-pyrazolones and 1-(2-Naphthyl)-3-methyl-5-pyrazolones as Labeling Reagents Used in LC-DAD-ESI-MS-MS Analysis of Neutral Aldoses and Uronic Acids. Chromatographia, 2010, 71, 789-797.	1.3	13
61	Isolation and Purification of Six Bioactive Compounds from the Seeds ofTrigonella foenum-graecumL. using High-Speed Counter-Current Chromatography. Separation Science and Technology, 2014, 49, 580-587.	2.5	13
62	Rapid separation of three proanthocyanidin dimers from Iris lactea Pall. var. Chinensis (Fisch.) Koidz by highâ€speed counterâ€current chromatography with continuous sample load and doubleâ€pump balancing mode. Phytochemical Analysis, 2015, 26, 444-453.	2.4	13
63	Extraction and Separation of Vitisin D, Ampelopsin B andcis-Vitisin A fromIris lacteaPall. var.chinensis (Fisch.) Koidz by Alkaline Extractionâ€“Acid Precipitation and High-Speed Counter-Current Chromatography. Journal of Chromatographic Science, 2016, 54, 744-751.	1.4	13
64	Advanced preparation technologies and strategies for molecularly imprinted materials. Chinese Science Bulletin, 2019, 64, 1352-1367.	0.7	12
65	Extraction of pollen lipids by SFEâ€CO₂ and determination of free fatty acids by HPLC. European Journal of Lipid Science and Technology, 2009, 111, 155-163.	1.5	11
66	Efficient Protocol for Isolation of Rhaponticin and Rhapontigenin with Consecutive Sample Injection from Fenugreek (Trigonella foenum-graecumL.) by HSCCC. Journal of Chromatographic Science, 2015, 54, bmv169.	1.4	10
67	Application of chromatography technology in the separation of active alkaloids from Hypecoum leptocarpum and their inhibitory effect on fatty acid synthase. Journal of Separation Science, 2015, 38, 4063-4070.	2.5	9
68	Comparative Analysis of Allantoin, Quercetin, and 1â€Methylâ€1,2,3,4â€Tetrahydroâ€²â€Carbolineâ€3â€Carboxylic Acid in Nitraria tangutorum Bobr. Seed by HPLCâ€APCIâ€MS and CE. Journal of Liquid Chromatography and Related Technologies, 2007, 30, 363-376.	1.0	8
69	Separation and Purification of Four Flavan-3-ols FromIris LacteaPall.var. Chinensis(Fisch.) Koidz by High-Speed Counter-Current Chromatography with Flow-Rate Gradient. Journal of Liquid Chromatography and Related Technologies, 2015, 38, 1486-1493.	1.0	8
70	Separation and Determination of the Major Active Components in Tibetan Folk Medicinal Species Swertia franchetiana by HPLC with DAD. Journal of Liquid Chromatography and Related Technologies, 2007, 30, 1687-1696.	1.0	7
71	Oneâ€step Preparative Separation of Two Polyhydroxystilbenes from Rheum likiangense Sam. by Highâ€speed Counterâ€current Chromatography. Phytochemical Analysis, 2012, 23, 684-688.	2.4	7
72	A sensitive highâ€performance liquid chromatography method with fluorescence detection for the determination of fatty acids as exemplified for Dendrobium species. European Journal of Lipid Science and Technology, 2013, 115, 1155-1163.	1.5	5

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73	Identification of Human IDO1 Enzyme Activity by Using Genetically Encoded Nitrotyrosine. ChemBioChem, 2020, 21, 1593-1596.	2.6	5
74	Separation and purification of four tannins from Potentilla parvifolia Fisch. (Rosaceae) using high-speed counter-current chromatography. Separation Science and Technology, 2016, 51, 2020-2027.	2.5	4
75	Preparative Separation ofN-Feruloyl Serotonin andN-(p-Coumaroyl) Serotonin from Safflower Seed Meal Using High-Speed Counter-Current Chromatography. Journal of Chromatographic Science, 2015, 53, 1341-1345.	1.4	3
76	A decade of discovery: the stunning progress of premature ovarian insufficiency research in China. Biology of Reproduction, 0, , .	2.7	2
77	When spermatogenesis meets human aging and elevated body mass. , 0, , .		2