

Minghua Lu

List of Publications by Year in descending order

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64
papers

2,763
citations

126907

33
h-index

189892

50
g-index

65
all docs

65
docs citations

65
times ranked

3311
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile preparation of nano-g-C ₃ N ₄ /UiO-66-NH ₂ composite as sorbent for high-efficient extraction and preconcentration of food colorants prior to HPLC analysis. <i>Chinese Chemical Letters</i> , 2022, 33, 903-906.	9.0	36
2	Preparation of multivariate zirconia metal-organic frameworks for highly efficient adsorption of endocrine disrupting compounds. <i>Journal of Hazardous Materials</i> , 2022, 424, 127559.	12.4	51
3	Enhanced transport of heavy metal ions by low-molecular-weight organic acids in saturated porous media: Link complex stability constants to heavy metal mobility. <i>Chemosphere</i> , 2022, 290, 133339.	8.2	27
4	Flower-like Co ₃ O ₄ /C ₃ N ₅ composite as solid-phase microextraction coating for high-efficiency adsorption and preconcentration of polycyclic aromatic hydrocarbons and polychlorinated biphenyls in water. <i>Chemical Engineering Journal</i> , 2022, 443, 136293.	12.7	30
5	Melamine/MIL-101(Fe)-derived magnetic carbon nanotube-decorated nitrogen-doped carbon materials as sorbent for rapid removal of organic dyes from environmental water sample. <i>Journal of Molecular Liquids</i> , 2022, 359, 119231.	4.9	19
6	Porous Hexagonal Boron Nitride as Solid-Phase Microextraction Coating Material for Extraction and Preconcentration of Polycyclic Aromatic Hydrocarbons from Soil Sample. <i>Nanomaterials</i> , 2022, 12, 1860.	4.1	1
7	Poly(divinylbenzene) as a fiber coating for headspace solid-phase microextraction of polycyclic aromatic hydrocarbons from river water. <i>Chemical Communications</i> , 2022, 58, 7574-7577.	4.1	18
8	Effects of phosphate on the transport of graphene oxide nanoparticles in saturated clean and iron oxide-coated sand columns. <i>Journal of Environmental Sciences</i> , 2021, 103, 80-92.	6.1	17
9	Graphene oxide nanoparticles and hematite colloids behave oppositely in their co-transport in saturated porous media. <i>Chemosphere</i> , 2021, 265, 129081.	8.2	13
10	Mass spectrometry-based metabolomics investigation on two different indica rice grains (<i>Oryza sativa</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	8.25	27
11	Gas-cycle-assisted headspace solid-phase microextraction coupled with gas chromatography for rapid analysis of organic pollutants. <i>Chemical Communications</i> , 2021, 57, 8810-8813.	4.1	18
12	MIL-101(Fe)-derived magnetic porous carbon as sorbent for stir bar sorptive-dispersive microextraction of sulfonamides. <i>Mikrochimica Acta</i> , 2021, 188, 340.	5.0	24
13	Fabrication of stable multivariate metal-organic frameworks with excellent adsorption performance toward bisphenols from environmental samples. <i>Talanta</i> , 2021, 235, 122818.	5.5	23
14	Nitrogen-rich carbon nitride as solid-phase microextraction fiber coating for high-efficient pretreatment of polychlorinated biphenyls from environmental samples. <i>Journal of Chromatography A</i> , 2021, 1659, 462655.	3.7	18
15	Facile preparation of reduced graphene oxide/ZnFe ₂ O ₄ nanocomposite as magnetic sorbents for enrichment of estrogens. <i>Talanta</i> , 2020, 208, 120440.	5.5	60
16	Monodispersed mesoporous SiO ₂ @metal-organic framework (MSN@MIL-101(Fe)) composites as sorbent for extraction and preconcentration of phytohormones prior to HPLC-DAD analysis. <i>Mikrochimica Acta</i> , 2020, 187, 367.	5.0	15
17	Preparation of Al-doped mesoporous crystalline material-41 as fiber coating material for headspace solid-phase microextraction of polycyclic aromatic hydrocarbons from human urine. <i>Journal of Chromatography A</i> , 2020, 1626, 461354.	3.7	32
18	Mesoporous graphitic carbon nitride@NiCo ₂ O ₄ nanocomposite as a solid phase microextraction coating for sensitive determination of environmental pollutants in human serum samples. <i>Chemical Communications</i> , 2019, 55, 10019-10022.	4.1	65

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19	On-off-on fluorescent carbon dots from waste tea: Their properties, antioxidant and selective detection of CrO ₄ ²⁻ , Fe ³⁺ , ascorbic acid and L-cysteine in real samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 213, 228-234.	3.9	101
20	Amino-functionalized mesoporous silica nanospheres (MSN-NH ₂) as sorbent for extraction and concentration of synthetic dyes from foodstuffs prior to HPLC analysis. <i>Analytical Methods</i> , 2019, 11, 105-112.	2.7	38
21	Biosynthesis of DHGA12 and its roles in Arabidopsis seedling establishment. <i>Nature Communications</i> , 2019, 10, 1768.	12.8	72
22	Mesoporous graphitic carbon nitride as an efficient sorbent for extraction of sulfonamides prior to HPLC analysis. <i>Mikrochimica Acta</i> , 2019, 186, 279.	5.0	40
23	Novel photoluminescence enzyme immunoassay based on supramolecular host-guest recognition using L-arginine/6-aza-2-thiothymine-stabilized gold nanocluster. <i>Biosensors and Bioelectronics</i> , 2018, 109, 70-74.	10.1	24
24	Layer-by-layer fabrication of g-C ₃ N ₄ coating for headspace solid-phase microextraction of food additives followed by gas chromatography-flame ionization detection. <i>Analytical Methods</i> , 2018, 10, 322-329.	2.7	25
25	Simultaneous Determination of Melatonin, L-Tryptophan, and two L-Tryptophan-Derived Esters in Food by HPLC with Graphene Oxide/SiO ₂ Nanocomposite as the Adsorbent. <i>Food Analytical Methods</i> , 2018, 11, 2438-2446.	2.6	31
26	Magnetic graphene oxide nanocomposites as the adsorbent for extraction and pre-concentration of azo dyes in different food samples followed by high-performance liquid chromatography analysis. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2018, 35, 2099-2110.	2.3	38
27	Nmp-based ionic liquids: Recyclable catalysts for both hetero-Michael addition and Knoevenagel condensation in water. <i>Synthetic Communications</i> , 2018, 48, 1060-1067.	2.1	10
28	Photoelectrochemical biosensing of disease marker on p-type Cu-doped Zn _{0.3} Cd _{0.7} S based on RCA and exonuclease III amplification. <i>Biosensors and Bioelectronics</i> , 2018, 117, 590-596.	10.1	60
29	Fabrication of nanoscale graphitic carbon nitride/copper oxide hybrid composites coated solid-phase microextraction fibers coupled with gas chromatography for determination of polycyclic aromatic hydrocarbons. <i>Journal of Chromatography A</i> , 2018, 1570, 47-55.	3.7	57
30	Ultrasensitive and label-free electrochemical aptasensor of kanamycin coupling with hybridization chain reaction and strand-displacement amplification. <i>Analytica Chimica Acta</i> , 2018, 1038, 21-28.	5.4	66
31	Highly Efficient, Rapid, and Simultaneous Removal of Cationic Dyes from Aqueous Solution Using Monodispersed Mesoporous Silica Nanoparticles as the Adsorbent. <i>Nanomaterials</i> , 2018, 8, 4.	4.1	78
32	Functionalization of silver nanoparticles with mPEGylated luteolin for selective visual detection of Hg ²⁺ in water sample. <i>RSC Advances</i> , 2018, 8, 28843-28846.	3.6	32
33	Analysis of flavors and fragrances by HPLC with Fe ₃ O ₄ @GO magnetic nanocomposite as the adsorbent. <i>Talanta</i> , 2017, 166, 262-267.	5.5	84
34	Graphene oxide-SiO ₂ nanocomposite as the adsorbent for extraction and preconcentration of plant hormones for HPLC analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1046, 58-64.	2.3	59
35	Polyion oligonucleotide-decorated gold nanoparticles with tunable surface charge density for amplified signal output of potentiometric immunosensor. <i>Analytica Chimica Acta</i> , 2017, 964, 67-73.	5.4	49
36	Novel electrochemical immunoassay for human IgG1 using metal sulfide quantum dot-doped bovine serum albumin microspheres on antibody-functionalized magnetic beads. <i>Analytica Chimica Acta</i> , 2017, 979, 24-30.	5.4	13

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37	In situ synthesis of fluorescent polydopamine nanoparticles coupled with enzyme-controlled dissolution of MnO ₂ nanoflakes for a sensitive immunoassay of cancer biomarkers. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8506-8513.	5.8	75
38	Facile synthesis of mPEG-luteolin-capped silver nanoparticles with antimicrobial activity and cytotoxicity to neuroblastoma SK-N-SH cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 390-394.	5.0	14
39	Fe ₃ O ₄ nanoparticles as the adsorbent of magnetic solid-phase extraction for clean and preconcentration of maltol and ethyl maltol in food samples followed by HPLC analysis. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2017, 40, 832-838.	1.0	8
40	Thio-Michael addition of α,β -unsaturated amides catalyzed by Nmm-based ionic liquids. <i>RSC Advances</i> , 2017, 7, 43104-43113.	3.6	17
41	Bioresponsive-controlled release of methylene blue from magnetic mesoporous silica from the electrochemical detection of telomerase activity. <i>Analyst</i> , 2017, 142, 3477-3483.	3.5	13
42	Bismuth ferrite-based photoactive materials for the photoelectrochemical detection of disease biomarkers coupled with multifunctional mesoporous silica nanoparticles. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9600-9607.	5.8	38
43	Multiplexed electrochemical immunoassay for two immunoglobulin proteins based on Cd and Cu nanocrystals. <i>Analyst</i> , 2017, 142, 4794-4800.	3.5	9
44	Hybridization chain reaction-based colorimetric aptasensor of adenosine 5'-triphosphate on unmodified gold nanoparticles and two label-free hairpin probes. <i>Biosensors and Bioelectronics</i> , 2017, 89, 1006-1012.	10.1	100
45	Nanomaterials as Assisted Matrix of Laser Desorption/Ionization Time-of-Flight Mass Spectrometry for the Analysis of Small Molecules. <i>Nanomaterials</i> , 2017, 7, 87.	4.1	80
46	Novel electrochemical sensing platform for quantitative monitoring of Hg(II) on DNA-assembled graphene oxide with target recycling. <i>Biosensors and Bioelectronics</i> , 2016, 85, 267-271.	10.1	55
47	Terbium ion-coordinated carbon dots for fluorescent aptasensing of adenosine 5'-triphosphate with unmodified gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2016, 86, 978-984.	10.1	72
48	Target-responsive aptamer release from manganese dioxide nanosheets for electrochemical sensing of cocaine with target recycling amplification. <i>Talanta</i> , 2016, 160, 444-448.	5.5	16
49	Potentiometric competitive immunoassay for determination of aflatoxin B1 in food by using antibody-labeled gold nanoparticles. <i>Mikrochimica Acta</i> , 2016, 183, 2815-2822.	5.0	37
50	Proximity Ligation Assay-Induced Structure-Switching Hairpin DNA toward Development of Electrochemical Immunosensor. <i>Electroanalysis</i> , 2016, 28, 1777-1782.	2.9	3
51	Enzymatic Oxidate-Triggered Self-Illuminated Photoelectrochemical Sensing Platform for Portable Immunoassay Using Digital Multimeter. <i>Analytical Chemistry</i> , 2016, 88, 2958-2966.	6.5	138
52	Fenton reaction-based colorimetric immunoassay for sensitive detection of brevetoxin B. <i>Biosensors and Bioelectronics</i> , 2016, 80, 249-256.	10.1	64
53	Low-cost and highly efficient DNA biosensor for heavy metal ion using specific DNAzyme-modified microplate and portable glucometer-based detection mode. <i>Biosensors and Bioelectronics</i> , 2015, 68, 232-238.	10.1	47
54	HCR-stimulated formation of DNAzyme concatamers on gold nanoparticle for ultrasensitive impedimetric immunoassay. <i>Biosensors and Bioelectronics</i> , 2015, 68, 487-493.	10.1	53

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55	Ag(I)-coordinated hairpin DNA for homogenous electronic monitoring of hepatitis C virus accompanying isothermal cycling signal amplification strategy. <i>Biosensors and Bioelectronics</i> , 2015, 73, 195-201.	10.1	23
56	Mesoporous carbon-enriched palladium nanostructures with redox activity for enzyme-free electrochemical immunoassay of brevetoxin A. <i>Analytica Chimica Acta</i> , 2015, 887, 67-74.	5.4	38
57	Urchin-like (gold core)@(platinum shell) nano hybrids: A highly efficient peroxidase-mimetic system for in situ amplified colorimetric immunoassay. <i>Biosensors and Bioelectronics</i> , 2015, 70, 194-201.	10.1	133
58	Digital multimeter-based immunosensing strategy for sensitive monitoring of biomarker by coupling an external capacitor with an enzymatic catalysis. <i>Biosensors and Bioelectronics</i> , 2014, 55, 255-258.	10.1	12
59	Wrapping DNA-gated mesoporous silica nanoparticles for quantitative monitoring of telomerase activity with glucometer readout. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5847-5853.	5.8	41
60	Gold nanocatalyst-based immunosensing strategy accompanying catalytic reduction of 4-nitrophenol for sensitive monitoring of chloramphenicol residue. <i>Analytica Chimica Acta</i> , 2014, 830, 42-48.	5.4	34
61	Advances of MALDI-TOF MS in the Analysis of Traditional Chinese Medicines. <i>Topics in Current Chemistry</i> , 2012, 331, 143-164.	4.0	16
62	Matrix Interference-Free Method for the Analysis of Small Molecules by Using Negative Ion Laser Desorption/Ionization on Graphene Flakes. <i>Analytical Chemistry</i> , 2011, 83, 3161-3169.	6.5	119
63	Laser desorption/ionization on the layer of graphene nanoparticles coupled with mass spectrometry for characterization of polymers. <i>Chemical Communications</i> , 2011, 47, 12807.	4.1	33
64	Extraction and Analysis of Auxins in Plants Using Dispersive Liquid-Liquid Microextraction Followed by High-Performance Liquid Chromatography with Fluorescence Detection. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 2763-2770.	5.2	100