Minghua Lu

List of Publications by Year
in descending order

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	Enzymatic Oxydate-Triggered Self-Illuminated Photoelectrochemical Sensing Platform for Portable Immunoassay Using Digital Multimeter. Analytical Chemistry, 2016, 88, 2958-2966.	6.5	138
2	Urchin-like (gold core)@(platinum shell) nanohybrids: A highly efficient peroxidase-mimetic system for in situ amplified colorimetric immunoassay. Biosensors and Bioelectronics, 2015, 70, 194-201.	10.1	133
3	Matrix Interference-Free Method for the Analysis of Small Molecules by Using Negative Ion Laser Desorption/Ionization on Graphene Flakes. Analytical Chemistry, 2011, 83, 3161-3169.	6.5	119
4	On-off-on fluorescent carbon dots from waste tea: Their properties, antioxidant and selective detection of CrO42â", Fe3+, ascorbic acid and L-cysteine in real samples. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 213, 228-234.	3.9	101
5	Extraction and Analysis of Auxins in Plants Using Dispersive Liquidâ"Liquid Microextraction Followed by High-Performance Liquid Chromatography with Fluorescence Detection. Journal of Agricultural and Food Chemistry, 2010, 58, 2763-2770.	5.2	100
6	Hybridization chain reaction-based colorimetric aptasensor of adenosine 5â€²-triphosphate on unmodified gold nanoparticles and two label-free hairpin probes. Biosensors and Bioelectronics, 2017, 89, 1006-1012.	10.1	100
7	Analysis of flavors and fragrances by HPLC with Fe 3 O 4 @GO magnetic nanocomposite as the adsorbent. Talanta, 2017, 166, 262-267.	5.5	84
8	Nanomaterials as Assisted Matrix of Laser Desorption/Ionization Time-of-Flight Mass Spectrometry for the Analysis of Small Molecules. Nanomaterials, 2017, 7, 87.	4.1	80
9	Highly Efficient, Rapid, and Simultaneous Removal of Cationic Dyes from Aqueous Solution Using Monodispersed Mesoporous Silica Nanoparticles as the Adsorbent. Nanomaterials, 2018, 8, 4.	4.1	78
10	In situ synthesis of fluorescent polydopamine nanoparticles coupled with enzyme-controlled dissolution of MnO₂ nanoflakes for a sensitive immunoassay of cancer biomarkers. Journal of Materials Chemistry B, 2017, 5, 8506-8513.	5.8	75
11	Terbium ion-coordinated carbon dots for fluorescent aptasensing of adenosine 5â€²-triphosphate with unmodified gold nanoparticles. Biosensors and Bioelectronics, 2016, 86, 978-984.	10.1	72
12	Biosynthesis of DHGA12 and its roles in Arabidopsis seedling establishment. Nature Communications, 2019, 10, 1768.	12.8	72
13	Ultrasensitive and label-free electrochemical aptasensor of kanamycin coupling with hybridization chain reaction and strand-displacement amplification. Analytica Chimica Acta, 2018, 1038, 21-28.	5.4	66
14	Mesoporous graphitic carbon nitride@NiCo₂O₄ nanocomposite as a solid phase microextraction coating for sensitive determination of environmental pollutants in human serum samples. Chemical Communications, 2019, 55, 10019-10022.	4.1	65
15	Fenton reaction-based colorimetric immunoassay for sensitive detection of brevetoxin B. Biosensors and Bioelectronics, 2016, 80, 249-256.	10.1	64
16	Photoelectrochemical biosensing of disease marker on p-type Cu-doped Zn0.3Cd0.7S based on RCA and exonuclease III amplification. Biosensors and Bioelectronics, 2018, 117, 590-596.	10.1	60
17	Facile preparation of reduced graphene oxide/ZnFe2O4 nanocomposite as magnetic sorbents for enrichment of estrogens. Talanta, 2020, 208, 120440.	5.5	60
18	Graphene oxide-SiO 2 nanocomposite as the adsorbent for extraction and preconcentration of plant hormones for HPLC analysis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1046, 58-64.	2.3	59

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19	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. Journal of Chromatography A, 2018, 1570, 47-55.	3.7	57
20	Novel electrochemical sensing platform for quantitative monitoring of Hg(II) on DNA-assembled graphene oxide with target recycling. Biosensors and Bioelectronics, 2016, 85, 267-271.	10.1	55
21	HCR-stimulated formation of DNAzyme concatamers on gold nanoparticle for ultrasensitive impedimetric immunoassay. Biosensors and Bioelectronics, 2015, 68, 487-493.	10.1	53
22	Preparation of multivariate zirconia metal-organic frameworks for highly efficient adsorption of endocrine disrupting compounds. Journal of Hazardous Materials, 2022, 424, 127559.	12.4	51
23	Polyion oligonucleotide-decorated gold nanoparticles with tunable surface charge density for amplified signal output of potentiometric immunosensor. Analytica Chimica Acta, 2017, 964, 67-73.	5.4	49
24	Low-cost and highly efficient DNA biosensor for heavy metal ion using specific DNAzyme-modified microplate and portable glucometer-based detection mode. Biosensors and Bioelectronics, 2015, 68, 232-238.	10.1	47
25	Wrapping DNA-gated mesoporous silica nanoparticles for quantitative monitoring of telomerase activity with glucometer readout. Journal of Materials Chemistry B, 2014, 2, 5847-5853.	5.8	41
26	Mesoporous graphitic carbon nitride as an efficient sorbent for extraction of sulfonamides prior to HPLC analysis. Mikrochimica Acta, 2019, 186, 279.	5.0	40
27	Mesoporous carbon-enriched palladium nanostructures with redoxÂactivity for enzyme-free electrochemical immunoassay of brevetoxinÂB. Analytica Chimica Acta, 2015, 887, 67-74.	5.4	38
28	Bismuth ferrite-based photoactive materials for the photoelectrochemical detection of disease biomarkers coupled with multifunctional mesoporous silica nanoparticles. Journal of Materials Chemistry B, 2017, 5, 9600-9607.	5.8	38
29	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. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2018, 35, 2099-2110.	2.3	38
30	Amino-functionalized mesoporous silica nanospheres (MSN-NH₂) as sorbent for extraction and concentration of synthetic dyes from foodstuffs prior to HPLC analysis. Analytical Methods, 2019, 11, 105-112.	2.7	38
31	Potentiometric competitive immunoassay for determination of aflatoxin B1 in food by using antibody-labeled gold nanoparticles. Mikrochimica Acta, 2016, 183, 2815-2822.	5.0	37
32	Facile preparation of nano-g-C3N4/UiO-66-NH2 composite as sorbent for high-efficient extraction and preconcentration of food colorants prior to HPLC analysis. Chinese Chemical Letters, 2022, 33, 903-906.	9.0	36
33	Gold nanocatalyst-based immunosensing strategy accompanying catalytic reduction of 4-nitrophenol for sensitive monitoring of chloramphenicol residue. Analytica Chimica Acta, 2014, 830, 42-48.	5.4	34
34	Laser desorption/ionization on the layer of graphene nanoparticles coupled with mass spectrometry for characterization of polymers. Chemical Communications, 2011, 47, 12807.	4.1	33
35	Functionalization of silver nanoparticles with mPEGylated luteolin for selective visual detection of Hg²⁺ in water sample. RSC Advances, 2018, 8, 28843-28846.	3.6	32
36	Preparation of Al-doped mesoporous crystalline material-41 as fiber coating material for headspace solid-phase microextraction of polycyclic aromatic hydrocarbons from human urine. Journal of Chromatography A, 2020, 1626, 461354.	3.7	32

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37	Simultaneous Determination of Melatonin, l-Tryptophan, and two l-Tryptophan-Derived Esters in Food by HPLC with Graphene Oxide/SiO2 Nanocomposite as the Adsorbent. Food Analytical Methods, 2018, 11, 2438-2446.	2.6	31
38	Flower-like Co3O4/C3N5 composite as solid-phase microextraction coating for high-efficiency adsorption and preconcentration of polycyclic aromatic hydrocarbons and polychlorinated biphenyls in water. Chemical Engineering Journal, 2022, 443, 136293.	12.7	30
39	Mass spectrometry-based metabolomics investigation on two different indica rice grains (Oryza sativa) Tj ETQq1 1 0.784314 rgBT /Over	8.2	27
40	Enhanced transport of heavy metal ions by low-molecular-weight organic acids in saturated porous media: Link complex stability constants to heavy metal mobility. Chemosphere, 2022, 290, 133339.	8.2	27
41	Layer-by-layer fabrication of g-C₃N₄ coating for headspace solid-phase microextraction of food additives followed by gas chromatography-flame ionization detection. Analytical Methods, 2018, 10, 322-329.	2.7	25
42	Novel photoluminescence enzyme immunoassay based on supramolecular host-guest recognition using L-arginine/6-aza-2-thiothymine-stabilized gold nanocluster. Biosensors and Bioelectronics, 2018, 109, 70-74.	10.1	24
43	MIL-101(Fe)-derived magnetic porous carbon as sorbent for stir bar sorptive-dispersive microextraction of sulfonamides. Mikrochimica Acta, 2021, 188, 340.	5.0	24
44	Ag(I)-coordinated hairpin DNA for homogenous electronic monitoring of hepatitis C virus accompanying isothermal cycling signal amplification strategy. Biosensors and Bioelectronics, 2015, 73, 195-201.	10.1	23
45	Fabrication of stable multivariate metal-organic frameworks with excellent adsorption performance toward bisphenols from environmental samples. Talanta, 2021, 235, 122818.	5.5	23
46	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. Journal of Molecular Liquids, 2022, 359, 119231.	4.9	19
47	Gas-cycle-assisted headspace solid-phase microextraction coupled with gas chromatography for rapid analysis of organic pollutants. Chemical Communications, 2021, 57, 8810-8813.	4.1	18
48	Nitrogen-rich carbon nitride as solid-phase microextraction fiber coating for high-efficient pretreatment of polychlorinated biphenyls from environmental samples. Journal of Chromatography A, 2021, 1659, 462655.	3.7	18
49	Poly(divinylbenzene) as a fiber coating for headspace solid-phase microextraction of polycyclic aromatic hydrocarbons from river water. Chemical Communications, 2022, 58, 7574-7577.	4.1	18
50	Thio-Michael addition of Î±,Î²-unsaturated amides catalyzed by Nmm-based ionic liquids. RSC Advances, 2017, 7, 43104-43113.	3.6	17
51	Effects of phosphate on the transport of graphene oxide nanoparticles in saturated clean and iron oxide-coated sand columns. Journal of Environmental Sciences, 2021, 103, 80-92.	6.1	17
52	Advances of MALDI-TOF MS in the Analysis of Traditional Chinese Medicines. Topics in Current Chemistry, 2012, 331, 143-164.	4.0	16
53	Target-responsive aptamer release from manganese dioxide nanosheets for electrochemical sensing of cocaine with target recycling amplification. Talanta, 2016, 160, 444-448.	5.5	16
54	Monodispersed mesoporous SiO2@metal-organic framework (MSN@MIL-101(Fe)) composites as sorbent for extraction and preconcentration of phytohormones prior to HPLC-DAD analysis. Mikrochimica Acta, 2020, 187, 367.	5.0	15

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55	Facile synthesis of mPEG-luteolin-capped silver nanoparticles with antimicrobial activity and cytotoxicity to neuroblastoma SK-N-SH cells. Colloids and Surfaces B: Biointerfaces, 2017, 160, 390-394.	5.0	14
56	Novel electrochemical immunoassay for human IgG1 using metal sulfide quantum dot-doped bovine serum albumin microspheres on antibody-functionalized magnetic beads. Analytica Chimica Acta, 2017, 979, 24-30.	5.4	13
57	Bioresponsive-controlled release of methylene blue from magnetic mesoporous silica from the electrochemical detection of telomerase activity. Analyst, The, 2017, 142, 3477-3483.	3.5	13
58	Graphene oxide nanoparticles and hematite colloids behave oppositely in their co-transport in saturated porous media. Chemosphere, 2021, 265, 129081.	8.2	13
59	Digital multimeter-based immunosensing strategy for sensitive monitoring of biomarker by coupling an external capacitor with an enzymatic catalysis. Biosensors and Bioelectronics, 2014, 55, 255-258.	10.1	12
60	Nmp-based ionic liquids: Recyclable catalysts for both hetero-Michael addition and Knoevenagel condensation in water. Synthetic Communications, 2018, 48, 1060-1067.	2.1	10
61	Multiplexed electrochemical immunoassay for two immunoglobulin proteins based on Cd and Cu nanocrystals. Analyst, The, 2017, 142, 4794-4800.	3.5	9
62	Fe3O4 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. Journal of Liquid Chromatography and Related Technologies, 2017, 40, 832-838.	1.0	8
63	Proximity Ligation Assayâ€induced Structureâ€switching Hairpin DNA toward Development of Electrochemical Immunosensor. Electroanalysis, 2016, 28, 1777-1782.	2.9	3
64	Porous Hexagonal Boron Nitride as Solid-Phase Microextraction Coating Material for Extraction and Preconcentration of Polycyclic Aromatic Hydrocarbons from Soil Sample. Nanomaterials, 2022, 12, 1860.	4.1	1