Hong-zhen Lian

List of Publications by Year
in descending order

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104 papers	2,190 citations	201674 27 h-index	276875 41 g-index
105 all docs	105 docs citations	105 times ranked	2659 citing authors

#	Article	IF	Citations
1	Room-Temperature Phosphorescence Chemosensor and Rayleigh Scattering Chemodosimeter Dual-Recognition Probe for 2,4,6-Trinitrotoluene Based on Manganese-Doped ZnS Quantum Dots. Analytical Chemistry, 2011, 83, 30-37.	6.5	122
2	Magnetic solid-phase extraction combined with graphite furnace atomic absorption spectrometry for speciation of Cr(III) and Cr(VI) in environmental waters. Talanta, 2013, 116, 361-367.	5.5	105
3	Zincon-immobilized silica-coated magnetic Fe3O4 nanoparticles for solid-phase extraction and determination of trace lead in natural and drinking waters by graphite furnace atomic absorption spectrometry. Talanta, 2012, 94, 251-256.	5.5	89
4	Determination of 17 pyrethroid residues in troublesome matrices by gas chromatography/mass spectrometry with negative chemical ionization. Talanta, 2011, 84, 141-147.	5.5	59
5	Aptamer-based organic-silica hybrid affinity monolith prepared via â€œthiol-eneâ€•click reaction for extraction of thrombin. Talanta, 2015, 138, 52-58.	5.5	58
6	Recent advances in lipophilicity measurement by reversed-phase high-performance liquid chromatography. TrAC - Trends in Analytical Chemistry, 2015, 68, 28-36.	11.4	58
7	Determination of low-level ink photoinitiator residues in packaged milk by solid-phase extraction and LC-ESI/MS/MS using triple-quadrupole mass analyzer. Analytical and Bioanalytical Chemistry, 2009, 395, 2359-2370.	3.7	56
8	Solid phase extraction of magnetic carbon doped Fe3O4 nanoparticles. Journal of Chromatography A, 2014, 1325, 8-15.	3.7	52
9	Synthesis in aqueous solution and characterisation of a new cobalt-doped ZnS quantum dot as a hybrid ratiometric chemosensor. Analytica Chimica Acta, 2011, 708, 134-140.	5.4	51
10	Spinel-type manganese ferrite (MnFe 2 O 4) microspheres: A novel affinity probe for selective and fast enrichment of phosphopeptides. Talanta, 2017, 166, 36-45.	5.5	49
11	Magnetic solid phase extraction of brominated flame retardants and pentachlorophenol from environmental waters with carbon doped Fe3O4 nanoparticles. Applied Surface Science, 2014, 321, 126-135.	6.1	47
12	Determination of n-octanol/water partition coefficient for DDT-related compounds by RP-HPLC with a novel dual-point retention time correction. Chemosphere, 2011, 83, 131-136.	8.2	43
13	Magnetic solid phase extraction for the determination of trace antimony species in water by inductively coupled plasma mass spectrometry. Talanta, 2015, 134, 292-297.	5.5	43
14	Speciation analysis of chromium by carboxylic group functionalized mesoporous silica with inductively coupled plasma mass spectrometry. Talanta, 2019, 195, 173-180.	5.5	41
15	A sequential solid phase microextraction system coupled with inductively coupled plasma mass spectrometry for speciation of inorganic arsenic. Analytical Methods, 2014, 6, 4205-4211.	2.7	38
16	The photocatalytic dehalogenation of chlorophenols and bromophenols by cobalt doped nano TiO2. Journal of Molecular Catalysis A, 2014, 395, 42-51.	4.8	36
17	Controllable Preparation of CuFeMnO₄ Nanospheres as a Novel Multifunctional Affinity Probe for Efficient Adsorption and Selective Enrichment of Low-Abundance Peptides and Phosphopeptides. Analytical Chemistry, 2017, 89, 10446-10453.	6.5	36
18	Determination of reversed-phase high performance liquid chromatography based octanol-water partition coefficients for neutral and ionizable compounds: Methodology evaluation. Journal of Chromatography A, 2017, 1528, 25-34.	3.7	36

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19	Determination of aluminum in environmental and biological samples by reversed-phase high-performance liquid chromatography via pre-column complexation with morin. Journal of Chromatography A, 2003, 993, 179-185.	3.7	35
20	One-pot synthesis of thiol- and amine-bifunctionalized mesoporous silica and applications in uptake and speciation of arsenic. RSC Advances, 2014, 4, 49421-49428.	3.6	35
21	Morin applied in speciation of aluminium in natural waters and biological samples by reversed-phase high-performance liquid chromatography with fluorescence detection. Analytical and Bioanalytical Chemistry, 2003, 376, 542-548.	3.7	33
22	Magnetic solid-phase extraction of brominated flame retardants from environmental waters with graphene-doped Fe₃ O₄ nanocomposites. Journal of Separation Science, 2015, 38, 1969-1976.	2.5	33
23	Solubility of nano-sized metal oxides evaluated by using in vitro simulated lung and gastrointestinal fluids: implication for health risks. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	32
24	Guanidyl-Functionalized Magnetic Bimetallic MOF Nanocomposites Developed for Selective Enrichment of Phosphopeptides. ACS Sustainable Chemistry and Engineering, 2020, 8, 16422-16429.	6.7	31
25	Preparation of thiol- and amine-bifunctionalized hybrid monolithic column via â€œone-potâ€•and applications in speciation of inorganic arsenic. Talanta, 2019, 192, 339-346.	5.5	30
26	Magnetic-room temperature phosphorescent multifunctional nanocomposites as chemosensor for detection and photo-driven enzyme mimetics for degradation of 2,4,6-trinitrotoluene. Journal of Materials Chemistry, 2012, 22, 4720.	6.7	29
27	Magnetic solidâ€•phase extraction based on a polydopamineâ€•coated Fe₃O₄ nanoparticles absorbent for the determination of bisphenol A, tetrabromobisphenol A, 2,4,6â€•tribromophenol, and (S)â€1,1â€™â€•biâ€2â€•naphthol in environmental waters by HPLC. Journal of Separation Science, 2016, 39, 2562-2572.	2.5	29
28	Preparation of an aptamer based organicâ€“inorganic hybrid monolithic column with gold nanoparticles as an intermediary for the enrichment of proteins. Analyst, The, 2016, 141, 4961-4967.	3.5	29
29	Solvothermal Synthesis of Novel Magnetic Nickel Based Iron Oxide Nanocomposites for Selective Capture of Global- and Mono-Phosphopeptides. Analytical Chemistry, 2020, 92, 1058-1067.	6.5	29
30	Characteristics and potential inhalation exposure risks of PM2.5â€“bound environmental persistent free radicals in Nanjing, a megaâ€“city in China. Atmospheric Environment, 2020, 224, 117355.	4.1	28
31	Low-cost iron oxide magnetic nanoclusters affinity probe for the enrichment of endogenous phosphopeptides in human saliva. RSC Advances, 2016, 6, 96210-96222.	3.6	26
32	Effects of Exogenous Zinc on Cell Cycle, Apoptosis and Viability of MDAMB231, HepG2 and 293ÂT Cells. Biological Trace Element Research, 2013, 154, 418-426.	3.5	25
33	Determination of hexavalent chromium in traditional Chinese medicines by high-performance liquid chromatography with inductively coupled plasma mass spectrometry. Journal of Separation Science, 2015, 38, 4043-4047.	2.5	25
34	Determination of n-octanol/water partition coefficients of weak ionizable solutes by RP-HPLC with neutral model compounds. Talanta, 2012, 97, 355-361.	5.5	24
35	Preparation of a novel amino functionalized ion-imprinted hybrid monolithic column for the selective extraction of trace copper followed by ICP-MS detection. Analytica Chimica Acta, 2021, 1162, 338477.	5.4	24
36	A practical interface designed for on-line polymer monolith microextraction: Synthesis and application of poly(4-vinylpyridine-co-ethylene glycol dimethacrylate) monolith. Journal of Chromatography A, 2012, 1256, 15-21.	3.7	22

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37	Determination of catalytic oxidation products of phenol by RP-HPLC. Research on Chemical Intermediates, 2012, 38, 549-558.	2.7	22
38	Facile synthesis of Fe^{III}â€“tannic acid film-functionalized magnetic silica microspheres for the enrichment of low-abundance peptides and proteins for MALDI-TOF MS analysis. RSC Advances, 2015, 5, 63896-63902.	3.6	22
39	Mechanism and application of halogen bond induced fluorescence enhancement and iodine molecule cleavage in solution. New Journal of Chemistry, 2015, 39, 262-272.	2.8	22
40	In-tube solid-phase microextraction with a hybrid monolithic column for the preconcentration of ultra-trace metals prior to simultaneous determination by ICP-MS. Mikrochimica Acta, 2020, 187, 356.	5.0	21
41	Preparation of poly(trimethyl-2-methacroyloxyethylammonium chloride-co-ethylene glycol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5(retardants. Journal of Chromatography A, 2013, 1291, 1-9.	3.7	20
42	A combination strategy using two novel cerium-based nanocomposite affinity probes for the selective enrichment of mono- and multi-phosphopeptides in mass spectrometric analysis. Chemical Communications, 2017, 53, 4620-4623.	4.1	20
43	Preparation and analytical application of novel thiol-functionalized solid extraction matrices: From mesoporous silica to hybrid monolithic capillary column. Talanta, 2018, 189, 517-526.	5.5	20
44	Simultaneous speciation analysis of chromium and antimony by novel carboxyl-functionalized hybrid monolithic column solid phase microextraction coupled with ICP-MS. Journal of Analytical Atomic Spectrometry, 2019, 34, 1693-1700.	3.0	20
45	In vitro inhalation bioaccessibility procedures for lead in PM2.5 size fraction of soil assessed and optimized by in vivo-in vitro correlation. Journal of Hazardous Materials, 2020, 381, 121202.	12.4	20
46	A novel evaluation method for extrapolated retention factor in determination of n-octanol/water partition coefficient of halogenated organic pollutants by reversed-phase high performance liquid chromatography. Analytica Chimica Acta, 2012, 713, 130-135.	5.4	18
47	Retention behavior ofo-phthalic, 3-nitrophthalic, and 4-nitrophthalic acids in ion-suppression reversed-phase high performance liquid chromatography using acids instead of buffers as ion-suppressors. Journal of Separation Science, 2005, 28, 1179-1187.	2.5	17
48	Chromatographic retention prediction and octanolâ€“water partition coefficient determination of monobasic weak acidic compounds in ion-suppression reversed-phase liquid chromatography using acids as ion-suppressors. Talanta, 2009, 79, 752-761.	5.5	17
49	Aggregation and dissolution of engineering nano Ag and ZnO pretreated with natural organic matters in the simulated lung biological fluids. Chemosphere, 2019, 225, 668-677.	8.2	17
50	Assessment of in vitro inhalation bioaccessibility of airborne particleâ€'bound potentially toxic elements collected using quartz and PTFE filter. Atmospheric Environment, 2019, 196, 118-124.	4.1	17
51	Development of a novel amine- and carboxyl-bifunctionalized hybrid monolithic column for non-invasive speciation analysis of chromium. Talanta, 2020, 212, 120799.	5.5	17
52	Effects of Exogenous Zinc on the Cellular Zinc Distribution and Cell Cycle of A549 Cells. Bioscience, Biotechnology and Biochemistry, 2012, 76, 2014-2020.	1.3	16
53	Influence of variation in mobile phase pH and solute pKa with the change of organic modifier fraction on QSRRs of hydrophobicity and RP-HPLC retention of weakly acidic compounds. Talanta, 2012, 101, 64-70.	5.5	16
54	A centrifugal microfluidic platform integrating monolithic capillary columns for high-throughput speciation of chromium. Journal of Analytical Atomic Spectrometry, 2014, 29, 1785-1790.	3.0	16

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55	Application of thermoresponsive hydrogel/gold nanorods composites in the detection of diquat. Talanta, 2017, 174, 192-197.	5.5	16
56	Zn-Responsive Proteome Profiling and Time-Dependent Expression of Proteins Regulated by MTF-1 in A549 Cells. PLoS ONE, 2014, 9, e105797.	2.5	14
57	In vitro inhalation/ingestion bioaccessibility, health risks, and source appointment of airborne particle-bound elements trapped in room air conditioner filters. Environmental Science and Pollution Research, 2018, 25, 26059-26068.	5.3	14
58	Retention of nucleic acids in ionâ€pair reversedâ€phase highâ€performance liquid chromatography depends not only on base composition but also on base sequence. Journal of Separation Science, 2016, 39, 4502-4511.	2.5	13
59	Retention prediction and hydrophobicity estimation of weak acidic compounds by reversed-phase liquid chromatography using acetic and perchloric acids as ion suppressors. Analytical and Bioanalytical Chemistry, 2010, 398, 2731-2743.	3.7	12
60	Monolithic alkylsilane column: A promising separation medium for oligonucleotides by ion-pair reversed-phase liquid chromatography. Journal of Chromatography A, 2018, 1569, 168-177.	3.7	12
61	Universal gold nanoparticle modified hybrid monolithic substrate developed for facile in-column post-functionalization. Talanta, 2021, 225, 121993.	5.5	11
62	Aptamerâ€based thrombin assay on microfluidic platform. Electrophoresis, 2013, 34, 3260-3266.	2.4	10
63	Development of magnetic LuPO₄ microspheres for highly selective enrichment and identification of phosphopeptides for MALDI-TOF MS analysis. Journal of Materials Chemistry B, 2015, 3, 9330-9339.	5.8	10
64	The Kinetic Response of the Proteome in A549 Cells Exposed to ZnSO4 Stress. PLoS ONE, 2015, 10, e0133451.	2.5	10
65	A combination approach using two functionalized magnetic nanoparticles for speciation analysis of inorganic arsenic. Talanta, 2022, 237, 122939.	5.5	10
66	SIMULTANEOUS DETERMINATION OF 14 QUINOLONES IN ROYAL JELLY BY LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY USING ANION-EXCHANGE SOLID-PHASE EXTRACTION. Journal of Liquid Chromatography and Related Technologies, 2011, 34, 1415-1430.	1.0	9
67	Analysis of related substances in synthetical arbutin and its intermediates by HPLCâ€“UV and LCâ€“ESIâ€“MS. Research on Chemical Intermediates, 2015, 41, 691-703.	2.7	9
68	Timeâ€dependent response of A549 cells upon exposure to cadmium. Journal of Applied Toxicology, 2018, 38, 1437-1446.	2.8	9
69	A novel strategy for retention prediction of nucleic acids with their sequence information in ion-pair reversed phase liquid chromatography. Talanta, 2018, 185, 592-601.	5.5	9
70	Hybrid monolith assisted magnetic ion-imprinted polymer extraction coupled with ICP-MS for determination of trace Au(III) in environmental and mineral samples. Microchemical Journal, 2020, 158, 105210.	4.5	9
71	Simultaneous Determination of Metsulfuron-Methyl, Chlorsulfuron and Bensulfuron-methyl in Various Formulations of Sulfonylurea Herbicides by HPLC-UV Detection. Journal of Liquid Chromatography and Related Technologies, 1996, 19, 207-216.	1.0	8
72	DIRECT DETERMINATION OF ALUMINUM IN DRINKING AND NATURAL WATERS AS 8-HYDROXYQUINOLINE CHELATE BY RP-HPLC. Journal of Liquid Chromatography and Related Technologies, 2001, 24, 215-228.	1.0	8

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73	Retention Prediction and Hydrophobicity Measurement of Weakly Basic Compounds in Reversed-phase Liquid Chromatography Using Ammonia and Triethylamine as Ion-suppressors. Current Analytical Chemistry, 2013, 10, 172-181.	1.2	8
74	Effects of Different Zinc Species on Cellar Zinc Distribution, Cell Cycle, Apoptosis and Viability in MDAMB231 Cells. Biological Trace Element Research, 2016, 170, 75-83.	3.5	8
75	Size Distribution, Bioaccessibility and Health Risks of Indoor/Outdoor Airborne Toxic Elements Collected from School Office Room. Atmosphere, 2018, 9, 340.	2.3	8
76	Determination of arsenic species in mainstream cigarette smoke based on inductively coupled plasma mass spectrometry. Spectroscopy Letters, 2018, 51, 252-256.	1.0	7
77	Study on Retention Behaviour of Homo-Oligonucleotides in IP-RPLC Using Dual-Point Retention Time Correction on â€œStandard Columnâ€•with Internal Standards. Current Analytical Chemistry, 2012, 8, 550-556.	1.2	6
78	A Comparative Study of the Ionization Modes in GCâ€“MS Multi-residue Method for the Determination of Organochlorine Pesticides and Polychlorinated Biphenyls in Crayfish. Food Analytical Methods, 2013, 6, 445-456.	2.6	6
79	Study on the polymorphism of G-quadruplexes by reversed-phase HPLC and LCâ€“MS. Journal of Chromatography A, 2018, 1542, 61-71.	3.7	6
80	Cytotoxicity and toxicoproteomic analyses of human lung epithelial cells exposed to extracts of atmospheric particulate matters on PTFE filters using acetone and water. Ecotoxicology and Environmental Safety, 2020, 191, 110223.	6.0	6
81	Spectral data analyses and structure elucidation of metoprolol tartrate. Drug Testing and Analysis, 2011, 3, 387-392.	2.6	5
82	RELATIONSHIP BETWEEN HYDROPHOBICITY AND RPLC RETENTION BEHAVIOR OF AMPHOTERIC COMPOUNDS. Journal of Liquid Chromatography and Related Technologies, 2014, 37, 2711-2724.	1.0	5
83	Influence of n-octanol in mobile phase on QSRRs of lipophilicity and retention mechanism of acidic and basic compounds in RP-HPLC. RSC Advances, 2015, 5, 28840-28847.	3.6	5
84	Organic molecule-assisted synthesis of Fe3O4/graphene oxide nanocomposites for selective capture of low-abundance peptides and phosphopeptides. Talanta, 2020, 208, 120437.	5.5	5
85	Insight into the hydrophilic interaction liquid chromatographic retention behaviors of hydrophilic compounds on different stationary phases. Talanta, 2020, 219, 121363.	5.5	5
86	Simultaneous Determination of Nine Related Substances in p-Phthalic Acid Residue by RP-HPLC. Journal of Chromatographic Science, 2012, 50, 410-413.	1.4	4
87	Determination of then-octanol/water partition coefficients of weakly ionizable basic compounds by reversed-phase high-performance liquid chromatography with neutral model compounds. Journal of Separation Science, 2014, 37, 3226-3234.	2.5	4
88	Fabrication and characterization of polyethyleneimine immobilized on chloropropyl- and silica-coated magnetic nanoparticles for Pb²⁺removal from aqueous solution. Desalination and Water Treatment, 2016, 57, 13701-13710.	1.0	4
89	Tetrasulfonate calix[4]arene modified large pore mesoporous silica microspheres: Synthesis, characterization, and application in protein separation. Talanta, 2021, 226, 122171.	5.5	4
90	A novel particulate matter sampling and cell exposure strategy based on agar membrane for cytotoxicity study. Chemosphere, 2022, 300, 134473.	8.2	4

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91	The time-dependent cellular response mechanism upon exposure to zinc oxide nanoparticles. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	3
92	Carboxyl-functionalized hybrid monolithic column prepared by â€œthiol-eneâ€•click reaction for noninvasive speciation analysis of chromium with inductively coupled plasma-mass spectrometry. Analytica Chimica Acta, 2020, 1137, 85-93.	5.4	3
93	A non-element-enriched, non-lyophilized candidate rat serum reference material prepared for once use in determination of inorganic elements by ICP-MS. Talanta, 2009, 78, 1389-1394.	5.5	2
94	Determination of 2,6-di-tert-butylphenol in Irganox 1425. Research on Chemical Intermediates, 2013, 39, 2035-2041.	2.7	2
95	Determination of Acetyl-Tryptophan in Human Albumin by Reversed-Phase High Performance Liquid Chromatography. Asian Journal of Chemistry, 2015, 27, 2015-2018.	0.3	2
96	Transport of environmental natural organic matter coated silver nanoparticle across cell membrane based on membrane etching treatment and inhibitors. Scientific Reports, 2021, 11, 507.	3.3	2
97	Spectral Data Analyses and Structure Elucidation of Hypoglycemic Drug Glipizide. Instrumentation Science and Technology, 2008, 36, 503-514.	1.8	1
98	Liquid chromatographic fingerprint of 3-methylflavone-8-carboxylic acid established for its synthesis control analysis. Talanta, 2009, 77, 1573-1578.	5.5	1
99	An example of quality control of fine chemical intermediates: related impurity analysis of industrial phthalic anhydride by reversed-phase high-performance liquid chromatography. Research on Chemical Intermediates, 2011, 37, 617-625.	2.7	1
100	Characterization of Bacitracin Zinc by Matrix-Assisted Laser Desorption Ionization â€“ Tandem Time-of-Flight Mass Spectrometry. Instrumentation Science and Technology, 2015, 43, 453-468.	1.8	1
101	Application of Gold Nanorods for the Evaluation of Antioxidant Activity. Current Analytical Chemistry, 2018, 14, 591-597.	1.2	1
102	One-pot preparation of zwitterionic sulfoalkylbetaine monolith for rapid and efficient separation of lysozyme from egg white. Journal of Pharmaceutical and Biomedical Analysis, 2019, 175, 112761.	2.8	1
103	Cytotoxicity of nZnO and nAg to A549 cells influenced by environmental natural organic matters. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	1
104	Determination of Polymerization Retarder, 4-Hydroxyanisole, in Triallyl Cyanurate for Industrial Use by HPLC. Journal of Liquid Chromatography and Related Technologies, 2008, 31, 2493-2502.	1.0	0