

Hong-zhen Lian

List of Publications by Year in descending order

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104
papers

2,190
citations

201385

27
h-index

288905

40
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. <i>Analytical Chemistry</i> , 2011, 83, 30-37.	3.2	122
2	Magnetic solid-phase extraction combined with graphite furnace atomic absorption spectrometry for speciation of Cr(III) and Cr(VI) in environmental waters. <i>Talanta</i> , 2013, 116, 361-367.	2.9	105
3	Zincon-immobilized silica-coated magnetic Fe ₃ O ₄ nanoparticles for solid-phase extraction and determination of trace lead in natural and drinking waters by graphite furnace atomic absorption spectrometry. <i>Talanta</i> , 2012, 94, 251-256.	2.9	89
4	Determination of 17 pyrethroid residues in troublesome matrices by gas chromatography/mass spectrometry with negative chemical ionization. <i>Talanta</i> , 2011, 84, 141-147.	2.9	59
5	Aptamer-based organic-silica hybrid affinity monolith prepared via α -thiol-ene click reaction for extraction of thrombin. <i>Talanta</i> , 2015, 138, 52-58.	2.9	58
6	Recent advances in lipophilicity measurement by reversed-phase high-performance liquid chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 68, 28-36.	5.8	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. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2359-2370.	1.9	56
8	Solid phase extraction of magnetic carbon doped Fe ₃ O ₄ nanoparticles. <i>Journal of Chromatography A</i> , 2014, 1325, 8-15.	1.8	52
9	Synthesis in aqueous solution and characterisation of a new cobalt-doped ZnS quantum dot as a hybrid ratiometric chemosensor. <i>Analytica Chimica Acta</i> , 2011, 708, 134-140.	2.6	51
10	Spinel-type manganese ferrite (MnFe ₂ O ₄) microspheres: A novel affinity probe for selective and fast enrichment of phosphopeptides. <i>Talanta</i> , 2017, 166, 36-45.	2.9	49
11	Magnetic solid phase extraction of brominated flame retardants and pentachlorophenol from environmental waters with carbon doped Fe ₃ O ₄ nanoparticles. <i>Applied Surface Science</i> , 2014, 321, 126-135.	3.1	47
12	Determination of n-octanol/water partition coefficient for DDT-related compounds by RP-HPLC with a novel dual-point retention time correction. <i>Chemosphere</i> , 2011, 83, 131-136.	4.2	43
13	Magnetic solid phase extraction for the determination of trace antimony species in water by inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2015, 134, 292-297.	2.9	43
14	Speciation analysis of chromium by carboxylic group functionalized mesoporous silica with inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2019, 195, 173-180.	2.9	41
15	A sequential solid phase microextraction system coupled with inductively coupled plasma mass spectrometry for speciation of inorganic arsenic. <i>Analytical Methods</i> , 2014, 6, 4205-4211.	1.3	38
16	The photocatalytic dehalogenation of chlorophenols and bromophenols by cobalt doped nano TiO ₂ . <i>Journal of Molecular Catalysis A</i> , 2014, 395, 42-51.	4.8	36
17	Controllable Preparation of CuFeMnO ₄ Nanospheres as a Novel Multifunctional Affinity Probe for Efficient Adsorption and Selective Enrichment of Low-Abundance Peptides and Phosphopeptides. <i>Analytical Chemistry</i> , 2017, 89, 10446-10453.	3.2	36
18	Determination of reversed-phase high performance liquid chromatography based octanol-water partition coefficients for neutral and ionizable compounds: Methodology evaluation. <i>Journal of Chromatography A</i> , 2017, 1528, 25-34.	1.8	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. <i>Journal of Chromatography A</i> , 2003, 993, 179-185.	1.8	35
20	One-pot synthesis of thiol- and amine-bifunctionalized mesoporous silica and applications in uptake and speciation of arsenic. <i>RSC Advances</i> , 2014, 4, 49421-49428.	1.7	35
21	Morin applied in speciation of aluminium in natural waters and biological samples by reversed-phase high-performance liquid chromatography with fluorescence detection. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 542-548.	1.9	33
22	Magnetic solid-phase extraction of brominated flame retardants from environmental waters with graphene-doped Fe ₃ O ₄ nanocomposites. <i>Journal of Separation Science</i> , 2015, 38, 1969-1976.	1.3	33
23	Solubility of nano-sized metal oxides evaluated by using in vitro simulated lung and gastrointestinal fluids: implication for health risks. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	32
24	Guanidyl-Functionalized Magnetic Bimetallic MOF Nanocomposites Developed for Selective Enrichment of Phosphopeptides. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16422-16429.	3.2	31
25	Preparation of thiol- and amine-bifunctionalized hybrid monolithic column via one-pot and applications in speciation of inorganic arsenic. <i>Talanta</i> , 2019, 192, 339-346.	2.9	30
26	Magnetic-room temperature phosphorescent multifunctional nanocomposites as chemosensor for detection and photo-driven enzyme mimetics for degradation of 2,4,6-trinitrotoluene. <i>Journal of Materials Chemistry</i> , 2012, 22, 4720.	6.7	29
27	Magnetic solid-phase extraction based on a polydopamine-coated Fe ₃ O ₄ nanoparticles absorbent for the determination of bisphenol A, tetrabromobisphenol A, 2,4,6-tribromophenol, and 1,1'-bis(2-naphthol) in environmental waters by HPLC. <i>Journal of Separation Science</i> , 2016, 39, 2562-2572.	1.3	29
28	Preparation of an aptamer based organic-inorganic hybrid monolithic column with gold nanoparticles as an intermediary for the enrichment of proteins. <i>Analyst</i> , 2016, 141, 4961-4967.	1.7	29
29	Solvothermal Synthesis of Novel Magnetic Nickel Based Iron Oxide Nanocomposites for Selective Capture of Global- and Mono-Phosphopeptides. <i>Analytical Chemistry</i> , 2020, 92, 1058-1067.	3.2	29
30	Characteristics and potential inhalation exposure risks of PM _{2.5} -bound environmental persistent free radicals in Nanjing, a mega-city in China. <i>Atmospheric Environment</i> , 2020, 224, 117355.	1.9	28
31	Low-cost iron oxide magnetic nanoclusters affinity probe for the enrichment of endogenous phosphopeptides in human saliva. <i>RSC Advances</i> , 2016, 6, 96210-96222.	1.7	26
32	Effects of Exogenous Zinc on Cell Cycle, Apoptosis and Viability of MDAMB231, HepG2 and 293T Cells. <i>Biological Trace Element Research</i> , 2013, 154, 418-426.	1.9	25
33	Determination of hexavalent chromium in traditional Chinese medicines by high-performance liquid chromatography with inductively coupled plasma mass spectrometry. <i>Journal of Separation Science</i> , 2015, 38, 4043-4047.	1.3	25
34	Determination of n-octanol/water partition coefficients of weak ionizable solutes by RP-HPLC with neutral model compounds. <i>Talanta</i> , 2012, 97, 355-361.	2.9	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. <i>Analytica Chimica Acta</i> , 2021, 1162, 338477.	2.6	24
36	A practical interface designed for on-line polymer monolith microextraction: Synthesis and application of poly(4-vinylpyridine-co-ethylene glycol dimethacrylate) monolith. <i>Journal of Chromatography A</i> , 2012, 1256, 15-21.	1.8	22

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37	Determination of catalytic oxidation products of phenol by RP-HPLC. <i>Research on Chemical Intermediates</i> , 2012, 38, 549-558.	1.3	22
38	Facile synthesis of Fe ^{III} -tannic acid film-functionalized magnetic silica microspheres for the enrichment of low-abundance peptides and proteins for MALDI-TOF MS analysis. <i>RSC Advances</i> , 2015, 5, 63896-63902.	1.7	22
39	Mechanism and application of halogen bond induced fluorescence enhancement and iodine molecule cleavage in solution. <i>New Journal of Chemistry</i> , 2015, 39, 262-272.	1.4	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. <i>Mikrochimica Acta</i> , 2020, 187, 356.	2.5	21
41	Preparation of poly(trimethyl-2-methacroyloxyethylammonium chloride-co-ethylene glycol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 retardants. <i>Journal of Chromatography A</i> , 2013, 1291, 1-9.	1.8	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. <i>Chemical Communications</i> , 2017, 53, 4620-4623.	2.2	20
43	Preparation and analytical application of novel thiol-functionalized solid extraction matrices: From mesoporous silica to hybrid monolithic capillary column. <i>Talanta</i> , 2018, 189, 517-526.	2.9	20
44	Simultaneous speciation analysis of chromium and antimony by novel carboxyl-functionalized hybrid monolithic column solid phase microextraction coupled with ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1693-1700.	1.6	20
45	In vitro inhalation bioaccessibility procedures for lead in PM _{2.5} size fraction of soil assessed and optimized by in vivo-in vitro correlation. <i>Journal of Hazardous Materials</i> , 2020, 381, 121202.	6.5	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. <i>Analytica Chimica Acta</i> , 2012, 713, 130-135.	2.6	18
47	Retention behavior of phthalic, 3-nitrophthalic, and 4-nitrophthalic acids in ion-suppression reversed-phase high performance liquid chromatography using acids instead of buffers as ion-suppressors. <i>Journal of Separation Science</i> , 2005, 28, 1179-1187.	1.3	17
48	Chromatographic retention prediction and octanol-water partition coefficient determination of monobasic weak acidic compounds in ion-suppression reversed-phase liquid chromatography using acids as ion-suppressors. <i>Talanta</i> , 2009, 79, 752-761.	2.9	17
49	Aggregation and dissolution of engineering nano Ag and ZnO pretreated with natural organic matters in the simulated lung biological fluids. <i>Chemosphere</i> , 2019, 225, 668-677.	4.2	17
50	Assessment of in vitro inhalation bioaccessibility of airborne particle-bound potentially toxic elements collected using quartz and PTFE filter. <i>Atmospheric Environment</i> , 2019, 196, 118-124.	1.9	17
51	Development of a novel amine- and carboxyl-bifunctionalized hybrid monolithic column for non-invasive speciation analysis of chromium. <i>Talanta</i> , 2020, 212, 120799.	2.9	17
52	Effects of Exogenous Zinc on the Cellular Zinc Distribution and Cell Cycle of A549 Cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 2014-2020.	0.6	16
53	Influence of variation in mobile phase pH and solute pKa with the change of organic modifier fraction on QRRs of hydrophobicity and RP-HPLC retention of weakly acidic compounds. <i>Talanta</i> , 2012, 101, 64-70.	2.9	16
54	A centrifugal microfluidic platform integrating monolithic capillary columns for high-throughput speciation of chromium. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1785-1790.	1.6	16

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55	Application of thermoresponsive hydrogel/gold nanorods composites in the detection of diquat. <i>Talanta</i> , 2017, 174, 192-197.	2.9	16
56	Zn-Responsive Proteome Profiling and Time-Dependent Expression of Proteins Regulated by MTF-1 in A549 Cells. <i>PLoS ONE</i> , 2014, 9, e105797.	1.1	14
57	In vitro inhalation/ingestion bioaccessibility, health risks, and source appointment of airborne particle-bound elements trapped in room air conditioner filters. <i>Environmental Science and Pollution Research</i> , 2018, 25, 26059-26068.	2.7	14
58	Retention of nucleic acids in ion-pair reversed-phase high-performance liquid chromatography depends not only on base composition but also on base sequence. <i>Journal of Separation Science</i> , 2016, 39, 4502-4511.	1.3	13
59	Retention prediction and hydrophobicity estimation of weak acidic compounds by reversed-phase liquid chromatography using acetic and perchloric acids as ion suppressors. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2731-2743.	1.9	12
60	Monolithic alkylsilane column: A promising separation medium for oligonucleotides by ion-pair reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2018, 1569, 168-177.	1.8	12
61	Universal gold nanoparticle modified hybrid monolithic substrate developed for facile in-column post-functionalization. <i>Talanta</i> , 2021, 225, 121993.	2.9	11
62	Aptamer-based thrombin assay on microfluidic platform. <i>Electrophoresis</i> , 2013, 34, 3260-3266.	1.3	10
63	Development of magnetic LuPO ₄ microspheres for highly selective enrichment and identification of phosphopeptides for MALDI-TOF MS analysis. <i>Journal of Materials Chemistry B</i> , 2015, 3, 9330-9339.	2.9	10
64	The Kinetic Response of the Proteome in A549 Cells Exposed to ZnSO ₄ Stress. <i>PLoS ONE</i> , 2015, 10, e0133451.	1.1	10
65	A combination approach using two functionalized magnetic nanoparticles for speciation analysis of inorganic arsenic. <i>Talanta</i> , 2022, 237, 122939.	2.9	10
66	SIMULTANEOUS DETERMINATION OF 14 QUINOLONES IN ROYAL JELLY BY LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY USING ANION-EXCHANGE SOLID-PHASE EXTRACTION. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2011, 34, 1415-1430.	0.5	9
67	Analysis of related substances in synthetical arbutin and its intermediates by HPLC-UV and LC-ESI-MS. <i>Research on Chemical Intermediates</i> , 2015, 41, 691-703.	1.3	9
68	Time-dependent response of A549 cells upon exposure to cadmium. <i>Journal of Applied Toxicology</i> , 2018, 38, 1437-1446.	1.4	9
69	A novel strategy for retention prediction of nucleic acids with their sequence information in ion-pair reversed phase liquid chromatography. <i>Talanta</i> , 2018, 185, 592-601.	2.9	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. <i>Microchemical Journal</i> , 2020, 158, 105210.	2.3	9
71	Simultaneous Determination of Metsulfuron-Methyl, Chlorsulfuron and Bensulfuron-methyl in Various Formulations of Sulfonylurea Herbicides by HPLC-UV Detection. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1996, 19, 207-216.	0.5	8
72	DIRECT DETERMINATION OF ALUMINUM IN DRINKING AND NATURAL WATERS AS 8-HYDROXYQUINOLINE CHELATE BY RP-HPLC. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2001, 24, 215-228.	0.5	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. <i>Current Analytical Chemistry</i> , 2013, 10, 172-181.	0.6	8
74	Effects of Different Zinc Species on Cellular Zinc Distribution, Cell Cycle, Apoptosis and Viability in MDAMB231 Cells. <i>Biological Trace Element Research</i> , 2016, 170, 75-83.	1.9	8
75	Size Distribution, Bioaccessibility and Health Risks of Indoor/Outdoor Airborne Toxic Elements Collected from School Office Room. <i>Atmosphere</i> , 2018, 9, 340.	1.0	8
76	Determination of arsenic species in mainstream cigarette smoke based on inductively coupled plasma mass spectrometry. <i>Spectroscopy Letters</i> , 2018, 51, 252-256.	0.5	7
77	Study on Retention Behaviour of Homo-Oligonucleotides in IP-RPLC Using Dual-Point Retention Time Correction on a Standard Column with Internal Standards. <i>Current Analytical Chemistry</i> , 2012, 8, 550-556.	0.6	6
78	A Comparative Study of the Ionization Modes in GC-MS Multi-residue Method for the Determination of Organochlorine Pesticides and Polychlorinated Biphenyls in Crayfish. <i>Food Analytical Methods</i> , 2013, 6, 445-456.	1.3	6
79	Study on the polymorphism of G-quadruplexes by reversed-phase HPLC and LC-MS. <i>Journal of Chromatography A</i> , 2018, 1542, 61-71.	1.8	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. <i>Ecotoxicology and Environmental Safety</i> , 2020, 191, 110223.	2.9	6
81	Spectral data analyses and structure elucidation of metoprolol tartrate. <i>Drug Testing and Analysis</i> , 2011, 3, 387-392.	1.6	5
82	RELATIONSHIP BETWEEN HYDROPHOBICITY AND RPLC RETENTION BEHAVIOR OF AMPHOTERIC COMPOUNDS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2014, 37, 2711-2724.	0.5	5
83	Influence of n-octanol in mobile phase on QSRRs of lipophilicity and retention mechanism of acidic and basic compounds in RP-HPLC. <i>RSC Advances</i> , 2015, 5, 28840-28847.	1.7	5
84	Organic molecule-assisted synthesis of Fe ₃ O ₄ /graphene oxide nanocomposites for selective capture of low-abundance peptides and phosphopeptides. <i>Talanta</i> , 2020, 208, 120437.	2.9	5
85	Insight into the hydrophilic interaction liquid chromatographic retention behaviors of hydrophilic compounds on different stationary phases. <i>Talanta</i> , 2020, 219, 121363.	2.9	5
86	Simultaneous Determination of Nine Related Substances in p-Phthalic Acid Residue by RP-HPLC. <i>Journal of Chromatographic Science</i> , 2012, 50, 410-413.	0.7	4
87	Determination of the <i>n</i> -octanol/water partition coefficients of weakly ionizable basic compounds by reversed-phase high-performance liquid chromatography with neutral model compounds. <i>Journal of Separation Science</i> , 2014, 37, 3226-3234.	1.3	4
88	Fabrication and characterization of polyethyleneimine immobilized on chloropropyl- and silica-coated magnetic nanoparticles for Pb ²⁺ removal from aqueous solution. <i>Desalination and Water Treatment</i> , 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. <i>Talanta</i> , 2021, 226, 122171.	2.9	4
90	A novel particulate matter sampling and cell exposure strategy based on agar membrane for cytotoxicity study. <i>Chemosphere</i> , 2022, 300, 134473.	4.2	4

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91	The time-dependent cellular response mechanism upon exposure to zinc oxide nanoparticles. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	3
92	Carboxyl-functionalized hybrid monolithic column prepared by "thiol-ene" click reaction for noninvasive speciation analysis of chromium with inductively coupled plasma-mass spectrometry. <i>Analytica Chimica Acta</i> , 2020, 1137, 85-93.	2.6	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. <i>Talanta</i> , 2009, 78, 1389-1394.	2.9	2
94	Determination of 2,6-di-tert-butylphenol in Irganox 1425. <i>Research on Chemical Intermediates</i> , 2013, 39, 2035-2041.	1.3	2
95	Determination of Acetyl-Tryptophan in Human Albumin by Reversed-Phase High Performance Liquid Chromatography. <i>Asian Journal of Chemistry</i> , 2015, 27, 2015-2018.	0.1	2
96	Transport of environmental natural organic matter coated silver nanoparticle across cell membrane based on membrane etching treatment and inhibitors. <i>Scientific Reports</i> , 2021, 11, 507.	1.6	2
97	Spectral Data Analyses and Structure Elucidation of Hypoglycemic Drug Glipizide. <i>Instrumentation Science and Technology</i> , 2008, 36, 503-514.	0.9	1
98	Liquid chromatographic fingerprint of 3-methylflavone-8-carboxylic acid established for its synthesis control analysis. <i>Talanta</i> , 2009, 77, 1573-1578.	2.9	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. <i>Research on Chemical Intermediates</i> , 2011, 37, 617-625.	1.3	1
100	Characterization of Bacitracin Zinc by Matrix-Assisted Laser Desorption Ionization " Tandem Time-of-Flight Mass Spectrometry. <i>Instrumentation Science and Technology</i> , 2015, 43, 453-468.	0.9	1
101	Application of Gold Nanorods for the Evaluation of Antioxidant Activity. <i>Current Analytical Chemistry</i> , 2018, 14, 591-597.	0.6	1
102	One-pot preparation of zwitterionic sulfoalkylbetaine monolith for rapid and efficient separation of lysozyme from egg white. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 175, 112761.	1.4	1
103	Cytotoxicity of nZnO and nAg to A549 cells influenced by environmental natural organic matters. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	1
104	Determination of Polymerization Retarder, 4-Hydroxyanisole, in Triallyl Cyanurate for Industrial Use by HPLC. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2008, 31, 2493-2502.	0.5	0