

# Hong-zhen Lian

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104  
papers

1,736  
citations

24  
h-index

36  
g-index

105  
ext. papers

1,937  
ext. citations

4.7  
avg, IF

4.94  
L-index

#	Paper	IF	Citations
104	A combination approach using two functionalized magnetic nanoparticles for speciation analysis of inorganic arsenic. <i>Talanta</i> , <b>2022</b> , 237, 122939	6.2	0
103	A novel particulate matter sampling and cell exposure strategy based on agar membrane for cytotoxicity study.. <i>Chemosphere</i> , <b>2022</b> , 134473	8.4	1
102	Tetrasulfonate calix[4]arene modified large pore mesoporous silica microspheres: Synthesis, characterization, and application in protein separation. <i>Talanta</i> , <b>2021</b> , 226, 122171	6.2	0
101	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> , <b>2021</b> , 1162, 338477	6.6	5
100	Universal gold nanoparticle modified hybrid monolithic substrate developed for facile in-column post-functionalization. <i>Talanta</i> , <b>2021</b> , 225, 121993	6.2	5
99	Transport of environmental natural organic matter coated silver nanoparticle across cell membrane based on membrane etching treatment and inhibitors. <i>Scientific Reports</i> , <b>2021</b> , 11, 507	4.9	2
98	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> , <b>2020</b> , 187, 356	5.8	12
97	Characteristics and potential inhalation exposure risks of PM <sub>2.5</sub> bound environmental persistent free radicals in Nanjing, a megacity in China. <i>Atmospheric Environment</i> , <b>2020</b> , 224, 117355	5.3	12
96	Development of a novel amine- and carboxyl-bifunctionalized hybrid monolithic column for non-invasive speciation analysis of chromium. <i>Talanta</i> , <b>2020</b> , 212, 120799	6.2	9
95	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> , <b>2020</b> , 191, 110223	7	1
94	Insight into the hydrophilic interaction liquid chromatographic retention behaviors of hydrophilic compounds on different stationary phases. <i>Talanta</i> , <b>2020</b> , 219, 121363	6.2	4
93	Organic molecule-assisted synthesis of FeO/graphene oxide nanocomposites for selective capture of low-abundance peptides and phosphopeptides. <i>Talanta</i> , <b>2020</b> , 208, 120437	6.2	4
92	Solvothermal Synthesis of Novel Magnetic Nickel Based Iron Oxide Nanocomposites for Selective Capture of Global- and Mono-Phosphopeptides. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 1058-1067	7.8	15
91	Cytotoxicity of nZnO and nAg to A549 cells influenced by environmental natural organic matters. <i>Journal of Nanoparticle Research</i> , <b>2020</b> , 22, 1	2.3	0
90	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> , <b>2020</b> , 158, 105210	4.8	6
89	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> , <b>2020</b> , 1137, 85-93	6.6	
88	Guanidyl-Functionalized Magnetic Bimetallic MOF Nanocomposites Developed for Selective Enrichment of Phosphopeptides. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 16422-16429	8.3	11

87	In vitro inhalation bioaccessibility procedures for lead in PM size fraction of soil assessed and optimized by in vivo-in vitro correlation. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 381, 121202	12.8	9
86	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> , <b>2019</b> , 34, 1693-1700	3.7	17
85	Aggregation and dissolution of engineering nano Ag and ZnO pretreated with natural organic matters in the simulated lung biological fluids. <i>Chemosphere</i> , <b>2019</b> , 225, 668-677	8.4	11
84	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> , <b>2019</b> , 175, 112761	3.5	1
83	Speciation analysis of chromium by carboxylic group functionalized mesoporous silica with inductively coupled plasma mass spectrometry. <i>Talanta</i> , <b>2019</b> , 195, 173-180	6.2	29
82	Assessment of in vitro inhalation bioaccessibility of airborne particle-bound potentially toxic elements collected using quartz and PTFE filter. <i>Atmospheric Environment</i> , <b>2019</b> , 196, 118-124	5.3	9
81	Preparation of thiol- and amine-bifunctionalized hybrid monolithic column via "one-pot" and applications in speciation of inorganic arsenic. <i>Talanta</i> , <b>2019</b> , 192, 339-346	6.2	18
80	Study on the polymorphism of G-quadruplexes by reversed-phase HPLC and LC-MS. <i>Journal of Chromatography A</i> , <b>2018</b> , 1542, 61-71	4.5	3
79	Determination of arsenic species in mainstream cigarette smoke based on inductively coupled plasma mass spectrometry. <i>Spectroscopy Letters</i> , <b>2018</b> , 51, 252-256	1.1	6
78	Time-dependent response of A549 cells upon exposure to cadmium. <i>Journal of Applied Toxicology</i> , <b>2018</b> , 38, 1437-1446	4.1	5
77	A novel strategy for retention prediction of nucleic acids with their sequence information in ion-pair reversed phase liquid chromatography. <i>Talanta</i> , <b>2018</b> , 185, 592-601	6.2	5
76	Preparation and analytical application of novel thiol-functionalized solid extraction matrices: From mesoporous silica to hybrid monolithic capillary column. <i>Talanta</i> , <b>2018</b> , 189, 517-526	6.2	15
75	Monolithic alkylsilane column: A promising separation medium for oligonucleotides by ion-pair reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , <b>2018</b> , 1569, 168-177	4.5	7
74	Size Distribution, Bioaccessibility and Health Risks of Indoor/Outdoor Airborne Toxic Elements Collected from School Office Room. <i>Atmosphere</i> , <b>2018</b> , 9, 340	2.7	6
73	Application of Gold Nanorods for the Evaluation of Antioxidant Activity. <i>Current Analytical Chemistry</i> , <b>2018</b> , 14, 591-597	1.7	1
72	The time-dependent cellular response mechanism upon exposure to zinc oxide nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2018</b> , 20, 1	2.3	3
71	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> , <b>2018</b> , 25, 26059-26068	5.1	10
70	Spinel-type manganese ferrite (MnFeO) microspheres: A novel affinity probe for selective and fast enrichment of phosphopeptides. <i>Talanta</i> , <b>2017</b> , 166, 36-45	6.2	41

69	Application of thermoresponsive hydrogel/gold nanorods composites in the detection of diquat. <i>Talanta</i> , <b>2017</b> , 174, 192-197	6.2	11
68	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> , <b>2017</b> , 53, 4620-4623	5.8	18
67	Controllable Preparation of CuFeMnO Nanospheres as a Novel Multifunctional Affinity Probe for Efficient Adsorption and Selective Enrichment of Low-Abundance Peptides and Phosphopeptides. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 10446-10453	7.8	26
66	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> , <b>2017</b> , 19, 1	2.3	17
65	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> , <b>2017</b> , 1528, 25-34	4.5	29
64	Fabrication and characterization of polyethyleneimine immobilized on chloropropyl- and silica-coated magnetic nanoparticles for Pb <sup>2+</sup> removal from aqueous solution. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 13701-13710		3
63	Effects of Different Zinc Species on Cellular Zinc Distribution, Cell Cycle, Apoptosis and Viability in MDAMB231 Cells. <i>Biological Trace Element Research</i> , <b>2016</b> , 170, 75-83	4.5	7
62	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> , <b>2016</b> , 39, 4502-4511	3.4	9
61	Preparation of an aptamer based organic-inorganic hybrid monolithic column with gold nanoparticles as an intermediary for the enrichment of proteins. <i>Analyst</i> , <b>2016</b> , 141, 4961-7	5	28
60	Magnetic solid-phase extraction based on a polydopamine-coated Fe <sub>3</sub> O <sub>4</sub> nanoparticles absorbent for the determination of bisphenol A, tetrabromobisphenol A, 2,4,6-tribromophenol, and (S)-1,1'-bi-2-naphthol in environmental waters by HPLC. <i>Journal of Separation Science</i> , <b>2016</b> , 39, 2562-72	3.4	23
59	Low-cost iron oxide magnetic nanoclusters affinity probe for the enrichment of endogenous phosphopeptides in human saliva. <i>RSC Advances</i> , <b>2016</b> , 6, 96210-96222	3.7	23
58	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> , <b>2015</b> , 5, 28840-28847	3.7	3
57	Facile synthesis of Fe(III) folic acid film-functionalized magnetic silica microspheres for the enrichment of low-abundance peptides and proteins for MALDI-TOF MS analysis. <i>RSC Advances</i> , <b>2015</b> , 5, 63896-63902	3.7	17
56	Recent advances in lipophilicity measurement by reversed-phase high-performance liquid chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2015</b> , 68, 28-36	14.6	50
55	Characterization of Bacitracin Zinc by Matrix-Assisted Laser Desorption Ionization Tandem Time-of-Flight Mass Spectrometry. <i>Instrumentation Science and Technology</i> , <b>2015</b> , 43, 453-468	1.4	1
54	Development of magnetic LuPO microspheres for highly selective enrichment and identification of phosphopeptides for MALDI-TOF MS analysis. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 9330-9339	7.3	10
53	Magnetic solid phase extraction for the determination of trace antimony species in water by inductively coupled plasma mass spectrometry. <i>Talanta</i> , <b>2015</b> , 134, 292-297	6.2	35
52	Analysis of related substances in synthetic arbutin and its intermediates by HPLC-UV and LC-ESI-MS. <i>Research on Chemical Intermediates</i> , <b>2015</b> , 41, 691-703	2.8	4

51	Mechanism and application of halogen bond induced fluorescence enhancement and iodine molecule cleavage in solution. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 262-272	3.6	20
50	Magnetic solid-phase extraction of brominated flame retardants from environmental waters with graphene-doped Fe <sub>3</sub> O <sub>4</sub> nanocomposites. <i>Journal of Separation Science</i> , <b>2015</b> , 38, 1969-76	3.4	28
49	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> , <b>2015</b> , 38, 4043-7	3.4	20
48	Determination of Acetyl-Tryptophan in Human Albumin by Reversed-Phase High Performance Liquid Chromatography. <i>Asian Journal of Chemistry</i> , <b>2015</b> , 27, 2015-2018	0.4	2
47	Aptamer-based organic-silica hybrid affinity monolith prepared via "thiol-ene" click reaction for extraction of thrombin. <i>Talanta</i> , <b>2015</b> , 138, 52-58	6.2	50
46	The Kinetic Response of the Proteome in A549 Cells Exposed to ZnSO <sub>4</sub> Stress. <i>PLoS ONE</i> , <b>2015</b> , 10, e0133451	3.4	8
45	Solid phase extraction of magnetic carbon doped Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Journal of Chromatography A</i> , <b>2014</b> , 1325, 8-15	4.5	46
44	One-pot synthesis of thiol- and amine-bifunctionalized mesoporous silica and applications in uptake and speciation of arsenic. <i>RSC Advances</i> , <b>2014</b> , 4, 49421-49428	3.7	27
43	A centrifugal microfluidic platform integrating monolithic capillary columns for high-throughput speciation of chromium. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2014</b> , 29, 1785-1790	3.7	15
42	The photocatalytic dehalogenation of chlorophenols and bromophenols by cobalt doped nano TiO <sub>2</sub> . <i>Journal of Molecular Catalysis A</i> , <b>2014</b> , 395, 42-51		30
41	RELATIONSHIP BETWEEN HYDROPHOBICITY AND RPLC RETENTION BEHAVIOR OF AMPHOTERIC COMPOUNDS. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>2014</b> , 37, 2711-2724	1.3	4
40	Magnetic solid phase extraction of brominated flame retardants and pentachlorophenol from environmental waters with carbon doped Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Applied Surface Science</i> , <b>2014</b> , 321, 126-135	6.7	41
39	A sequential solid phase microextraction system coupled with inductively coupled plasma mass spectrometry for speciation of inorganic arsenic. <i>Analytical Methods</i> , <b>2014</b> , 6, 4205-4211	3.2	34
38	Determination of the n-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> , <b>2014</b> , 37, 3226-34	3.4	3
37	Zn-responsive proteome profiling and time-dependent expression of proteins regulated by MTF-1 in A549 cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e105797	3.7	14
36	Determination of 2,6-di-tert-butylphenol in Irganox 1425. <i>Research on Chemical Intermediates</i> , <b>2013</b> , 39, 2035-2041	2.8	2
35	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> , <b>2013</b> , 116, 361-7	6.2	97
34	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> , <b>2013</b> , 6, 445-456	3.4	5

33	Effects of exogenous zinc on cell cycle, apoptosis and viability of MDAMB231, HepG2 and 293 T cells. <i>Biological Trace Element Research</i> , <b>2013</b> , 154, 418-26	4.5	18
32	Preparation of poly(trimethyl-2-methacroyloxyethylammonium chloride-co-ethylene glycol dimethacrylate) monolith and its application in solid phase microextraction of brominated flame retardants. <i>Journal of Chromatography A</i> , <b>2013</b> , 1291, 1-9	4.5	19
31	Aptamer-based thrombin assay on microfluidic platform. <i>Electrophoresis</i> , <b>2013</b> , 34, 3260-6	3.6	9
30	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> , <b>2013</b> , 10, 172-181	1.7	8
29	Determination of catalytic oxidation products of phenol by RP-HPLC. <i>Research on Chemical Intermediates</i> , <b>2012</b> , 38, 549-558	2.8	17
28	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> , <b>2012</b> , 1256, 15-21	4.5	22
27	Effects of exogenous zinc on the cellular zinc distribution and cell cycle of A549 cells. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2012</b> , 76, 2014-20	2.1	14
26	Zincon-immobilized silica-coated magnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticles for solid-phase extraction and determination of trace lead in natural and drinking waters by graphite furnace atomic absorption spectrometry. <i>Talanta</i> , <b>2012</b> , 94, 251-6	6.2	86
25	Determination of n-octanol/water partition coefficients of weak ionizable solutes by RP-HPLC with neutral model compounds. <i>Talanta</i> , <b>2012</b> , 97, 355-61	6.2	21
24	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> , <b>2012</b> , 713, 130-5	6.6	14
23	Influence of variation in mobile phase pH and solute pK(a) with the change of organic modifier fraction on QSRRs of hydrophobicity and RP-HPLC retention of weakly acidic compounds. <i>Talanta</i> , <b>2012</b> , 101, 64-70	6.2	11
22	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> , <b>2012</b> , 22, 4720		26
21	Simultaneous determination of nine related substances in p-phthalic acid residue by RP-HPLC. <i>Journal of Chromatographic Science</i> , <b>2012</b> , 50, 410-3	1.4	4
20	Study on Retention Behaviour of Homo-Oligonucleotides in IP-RPLC Using Dual-Point Retention Time Correction on Standard Column with Internal Standards. <i>Current Analytical Chemistry</i> , <b>2012</b> , 8, 550-556	1.7	5
19	Synthesis in aqueous solution and characterisation of a new cobalt-doped ZnS quantum dot as a hybrid ratiometric chemosensor. <i>Analytica Chimica Acta</i> , <b>2011</b> , 708, 134-40	6.6	44
18	Determination of 17 pyrethroid residues in troublesome matrices by gas chromatography/mass spectrometry with negative chemical ionization. <i>Talanta</i> , <b>2011</b> , 84, 141-7	6.2	53
17	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> , <b>2011</b> , 83, 30-7	7.8	117
16	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> , <b>2011</b> , 83, 131-6	8.4	34

15	Spectral data analyses and structure elucidation of metoprolol tartrate. <i>Drug Testing and Analysis</i> , <b>2011</b> , 3, 387-92	3.5	4
14	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> , <b>2011</b> , 37, 617-625	2.8	1
13	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> , <b>2011</b> , 34, 1415-1430	1.3	5
12	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> , <b>2010</b> , 398, 2731-43	4.4	12
11	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> , <b>2009</b> , 395, 2359-70	4.4	46
10	Liquid chromatographic fingerprint of 3-methylflavone-8-carboxylic acid established for its synthesis control analysis. <i>Talanta</i> , <b>2009</b> , 77, 1573-8	6.2	0
9	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> , <b>2009</b> , 78, 1389-94	6.2	1
8	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> , <b>2009</b> , 79, 752-61	6.2	16
7	Determination of Polymerization Retarder, 4-Hydroxyanisole, in Triallyl Cyanurate for Industrial Use by HPLC. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>2008</b> , 31, 2493-2502	1.3	
6	Spectral Data Analyses and Structure Elucidation of Hypoglycemic Drug Glipizide. <i>Instrumentation Science and Technology</i> , <b>2008</b> , 36, 503-514	1.4	
5	Retention behavior of o-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> , <b>2005</b> , 28, 1179-87	3.4	17
4	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> , <b>2003</b> , 376, 542-8	4.4	27
3	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> , <b>2003</b> , 993, 179-85	4.5	29
2	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> , <b>2001</b> , 24, 215-228	1.3	7
1	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> , <b>1996</b> , 19, 207-216	1.3	6