

# Ming-Li Chen

## List of Publications by Year in descending order

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105  
papers

3,576  
citations

126858

33  
h-index

161767

54  
g-index

105  
all docs

105  
docs citations

105  
times ranked

4185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Green preparation of carbon dots with papaya as carbon source for effective fluorescent sensing of Iron (III) and Escherichia coli. <i>Biosensors and Bioelectronics</i> , 2016, 85, 68-75.	5.3	309
2	Nitrogen-doped fluorescence carbon dots as multi-mechanism detection for iodide and curcumin in biological and food samples. <i>Bioactive Materials</i> , 2021, 6, 1541-1554.	8.6	160
3	Cyanobacterium metallothionein decorated graphene oxide nanosheets for highly selective adsorption of ultra-trace cadmium. <i>Journal of Materials Chemistry</i> , 2012, 22, 21909.	6.7	143
4	Atmospheric-Pressure Dielectric-Barrier Discharge as a Radiation Source for Optical Emission Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7909-7912.	7.2	114
5	Green preparation of carbon dots for intracellular pH sensing and multicolor live cell imaging. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7130-7137.	2.9	109
6	Genetic and chemical modification of cells for selective separation and analysis of heavy metals of biological or environmental significance. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 66, 90-102.	5.8	101
7	Polyhedral Oligomeric Silsesquioxane Functionalized Carbon Dots for Cell Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16609-16616.	4.0	100
8	Deep Eutectic Solvent-Assisted Preparation of Nitrogen/Chloride-Doped Carbon Dots for Intracellular Biological Sensing and Live Cell Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7901-7909.	4.0	91
9	Three-Dimensional DNA Nanomachine Biosensor by Integrating DNA Walker and Rolling Machine Cascade Amplification for Ultrasensitive Detection of Cancer-Related Gene. <i>Analytical Chemistry</i> , 2020, 92, 11111-11118.	3.2	78
10	Aggregation-induced emission luminogens for highly effective microwave dynamic therapy. <i>Bioactive Materials</i> , 2022, 7, 112-125.	8.6	78
11	Copper-Cysteamine Nanoparticles as a Heterogeneous Fenton-Like Catalyst for Highly Selective Cancer Treatment. <i>ACS Applied Bio Materials</i> , 2020, 3, 1804-1814.	2.3	69
12	Highly Sensitive Detection of MicroRNA-21 with ICPMS via Hybridization Accumulation of Upconversion Nanoparticles. <i>Analytical Chemistry</i> , 2018, 90, 12116-12122.	3.2	64
13	Core-shell nanorods for controlled release of silver that can serve as a nanoheater for photothermal treatment on bacteria. <i>Acta Biomaterialia</i> , 2015, 11, 511-519.	4.1	63
14	Mercury Speciation with Fluorescent Gold Nanocluster as a Probe. <i>Analytical Chemistry</i> , 2018, 90, 6945-6951.	3.2	63
15	Fabrication of magnetic Fe <sub>3</sub> O <sub>4</sub> @metal organic framework@covalent organic framework composite and its selective separation of trace copper. <i>Applied Surface Science</i> , 2020, 530, 147254.	3.1	62
16	Zn-based metal organic framework-covalent organic framework composites for trace lead extraction and fluorescence detection of TNP. <i>Journal of Hazardous Materials</i> , 2021, 411, 125021.	6.5	60
17	SERS-Fluorescence Dual-Mode pH-Sensing Method Based on Janus Microparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 39699-39707.	4.0	58
18	Screening arsenic(III)-binding peptide for colorimetric detection of arsenic(III) based on the peptide induced aggregation of gold nanoparticles. <i>Talanta</i> , 2018, 177, 212-216.	2.9	56

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19	Thermo/pH dual-stimuli-responsive drug delivery for chemo-/photothermal therapy monitored by cell imaging. <i>Talanta</i> , 2018, 181, 278-285.	2.9	55
20	Boronic acid functionalized g-C <sub>3</sub> N <sub>4</sub> nanosheets for ultrasensitive and selective sensing of glycoprotein in the physiological environment. <i>Nanoscale</i> , 2018, 10, 4913-4920.	2.8	48
21	Supported carbon dots serve as high-performance adsorbent for the retention of trace cadmium. <i>Talanta</i> , 2018, 180, 18-24.	2.9	48
22	Chromium(III) Binding Phage Screening for the Selective Adsorption of Cr(III) and Chromium Speciation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21287-21294.	4.0	44
23	A Novel Three-Dimensional Nanosensing Array for the Discrimination of Sulfur-Containing Species and Sulfur Bacteria. <i>Analytical Chemistry</i> , 2019, 91, 6012-6018.	3.2	43
24	M13 phage-based nanoprobe for SERS detection and inactivation of <i>Staphylococcus aureus</i> . <i>Talanta</i> , 2021, 221, 121668.	2.9	42
25	High-Throughput/High-Precision Sampling of Single Cells into ICP-MS for Elucidating Cellular Nanoparticles. <i>Analytical Chemistry</i> , 2018, 90, 14543-14550.	3.2	41
26	Ultrafast Gradient Separation with Narrow Open Tubular Liquid Chromatography. <i>Analytical Chemistry</i> , 2019, 91, 10738-10743.	3.2	41
27	Cu-Based Metal-Organic Framework Nanoparticles for Sensing Cr(VI) Ions. <i>ACS Applied Nano Materials</i> , 2021, 4, 802-810.	2.4	41
28	Analysis of the Distribution Pattern of Chromium Species in Single Cells. <i>Analytical Chemistry</i> , 2016, 88, 12437-12444.	3.2	40
29	Zwitterionic poly(sulfobetaine methacrylate)s in water: from upper critical solution temperature (UCST) to lower critical solution temperature (LCST) with increasing length of one alkyl substituent on the nitrogen atom. <i>Polymer Chemistry</i> , 2018, 9, 5257-5261.	1.9	39
30	Dual-Multivalent-Aptamer-Conjugated Nanoprobes for Superefficient Discerning of Single Circulating Tumor Cells in a Microfluidic Chip with Inductively Coupled Plasma Mass Spectrometry Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 43668-43675.	4.0	38
31	Live HeLa Cells Preconcentrate and Differentiate Inorganic Arsenic Species. <i>Analytical Chemistry</i> , 2009, 81, 1291-1296.	3.2	37
32	Placeholder Strategy with Upconversion Nanoparticles-Eriochrome Black T Conjugate for a Colorimetric Assay of an Anthrax Biomarker. <i>Analytical Chemistry</i> , 2019, 91, 12094-12099.	3.2	37
33	Mesoporous carbon nanoparticles capped with polyacrylic acid as drug carrier for bi-trigger continuous drug release. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5178-5184.	2.9	36
34	Inertial-Force-Assisted, High-Throughput, Droplet-Free, Single-Cell Sampling Coupled with ICP-MS for Real-Time Cell Analysis. <i>Analytical Chemistry</i> , 2020, 92, 6604-6612.	3.2	36
35	Arsenic preconcentration via solid phase extraction and speciation by HPLC-gradient hydride generation atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 133-140.	1.6	34
36	CuS@PDA-FA nanocomposites: a dual stimuli-responsive DOX delivery vehicle with ultrahigh loading level for synergistic photothermal-chemotherapies on breast cancer. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1396-1404.	2.9	33

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37	Nano-octahedral bimetallic Fe/Eu-MOF preparation and dual model sensing of serum alkaline phosphatase (ALP) based on its peroxidase-like property and fluorescence. <i>Materials Science and Engineering C</i> , 2021, 129, 112404.	3.8	33
38	A Spiral-Helix (3D) Tubing Array That Ensures Ultrahigh-Throughput Single-Cell Sampling. <i>Analytical Chemistry</i> , 2019, 91, 15826-15832.	3.2	31
39	Amplification Strategy of Silver Nanoclusters with a Satellite-Nanostructure for Substrate-Free Assay of Alkaline Phosphatase by ICP-MS. <i>Analytical Chemistry</i> , 2020, 92, 3769-3774.	3.2	30
40	Magnetic Nanohybrids Loaded with Bimetal Core-Shell Nanorods for Bacteria Capture, Separation, and Near-Infrared Photothermal Treatment. <i>Chemistry - A European Journal</i> , 2015, 21, 6582-6589.	1.7	28
41	A novel modularized optical sensor for pH monitoring in biological matrixes. <i>Biosensors and Bioelectronics</i> , 2018, 109, 150-155.	5.3	28
42	A Three-Dimensional Porous Organic Framework for Highly Selective Capture of Mercury and Copper Ions. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2797-2806.	2.0	27
43	A hybrid of carbon dots with 4-chloro-7-nitro-2,1,3-benzoxadiazole for selective detection of p-phenylenediamine. <i>Environmental Science: Nano</i> , 2017, 4, 1037-1044.	2.2	26
44	Functionalized magnetic composites based on the aptamer serve as novel bio-adsorbent for the separation and preconcentration of trace lead. <i>Talanta</i> , 2019, 203, 210-219.	2.9	26
45	Discrimination of antibiotic-resistant Gram-negative bacteria with a novel 3D nano sensing array. <i>Chemical Communications</i> , 2020, 56, 1717-1720.	2.2	26
46	Recent advances in single-cell ultra-trace analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 127, 115886.	5.8	26
47	Aptamer-anchored di-polymer shell-capped mesoporous carbon as a drug carrier for bi-trigger targeted drug delivery. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6882-6889.	2.9	25
48	Hybrids of Upconversion Nanoparticles and Silver Nanoclusters Ensure Superior Bactericidal Capability via Combined Sterilization. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 51285-51292.	4.0	25
49	ICP-MS and Photothermal Dual-Readout Assay for Ultrasensitive and Point-of-Care Detection of Pancreatic Cancer Exosomes. <i>Analytical Chemistry</i> , 2021, 93, 11540-11546.	3.2	25
50	Recent Advances in Nanomaterials for Analysis of Trace Heavy Metals. <i>Critical Reviews in Analytical Chemistry</i> , 2021, 51, 353-372.	1.8	24
51	Supported carbon dots decorated with metallothionein for selective cadmium adsorption and removal. <i>Chinese Chemical Letters</i> , 2015, 26, 1496-1501.	4.8	23
52	Synthesis of a Highly Azide-Reactive and Thermosensitive Biofunctional Reagent for Efficient Enrichment and Large-Scale Identification of O-GlcNAc Proteins by Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 5810-5817.	3.2	23
53	In situ growth of gold nanoparticles on Hg <sup>2+</sup> -binding M13 phages for mercury sensing. <i>Nanoscale</i> , 2017, 9, 16728-16734.	2.8	23
54	ZrO <sub>2</sub> doped magnetic mesoporous polyimide for the efficient enrichment of phosphopeptides. <i>Talanta</i> , 2018, 188, 385-392.	2.9	23

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55	Nanostructures serve as adsorbents for the selective separation/enrichment of proteins. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115650.	5.8	23
56	Functionalization of mesoporous organosilica nanocarrier for pH/glutathione dual-responsive drug delivery and imaging of cancer therapy process. <i>Talanta</i> , 2018, 177, 203-211.	2.9	22
57	Copper-Decorated Titanate Nanosheets: Novel Homogeneous Monolayers with a Superior Capacity for Selective Isolation of Hemoglobin. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 28273-28280.	4.0	21
58	Single cell analysis for elucidating cellular uptake and transport of cobalt curcumin complex with detection by time-resolved ICPMS. <i>Analytica Chimica Acta</i> , 2019, 1066, 13-20.	2.6	21
59	Highly selective preconcentration of ultra-trace cadmium by yeast surface engineering. <i>Analyst</i> , The, 2012, 137, 4193.	1.7	20
60	Boron-titanate monolayer nanosheets for highly selective adsorption of immunoglobulin G. <i>Nanoscale</i> , 2019, 11, 9362-9368.	2.8	20
61	One step preparation of proton-functionalized photoluminescent graphitic carbon nitride and its sensing applications. <i>RSC Advances</i> , 2016, 6, 98893-98898.	1.7	19
62	Dual Functional Core@Shell Fluorescent Ag <sub>2</sub> S@Carbon Nanostructure for Selective Assay of <i>E. coli</i> O157:H7 and Bactericidal Treatment. <i>ACS Sensors</i> , 2017, 2, 371-378.	4.0	19
63	The up-to-date strategies for the isolation and manipulation of single cells. <i>Talanta</i> , 2020, 218, 121147.	2.9	19
64	Two-Dimensional Cytometry Platform for Single-Particle/Cell Analysis with Laser-Induced Fluorescence and ICP-MS. <i>Analytical Chemistry</i> , 2021, 93, 8203-8209.	3.2	18
65	Effects of N-Substituents on the Solution Behavior of Poly(sulfobetaine methacrylate)s in Water: Upper and Lower Critical Solution Temperature Transitions. <i>ACS Applied Polymer Materials</i> , 2021, 3, 867-878.	2.0	17
66	Dual functional AgNPs-M13 phage composite serves as antibacterial film and sensing probe for monitoring the corrosion of chromium-containing dental alloys. <i>Chinese Chemical Letters</i> , 2020, 31, 145-149.	4.8	16
67	Probing pH variation in living cells and assaying hemoglobin in blood with nitrogen enriched carbon dots. <i>Talanta</i> , 2018, 188, 788-794.	2.9	15
68	Facile synthesis of metal-organic framework-derived SiW <sub>12</sub> @Co <sub>3</sub> O <sub>4</sub> and its peroxidase-like activity in colorimetric assay. <i>Analyst</i> , The, 2019, 144, 5455-5461.	1.7	14
69	Label-Free Resistance Cytometry at the Orifice of a Nanopipette. <i>Analytical Chemistry</i> , 2021, 93, 2942-2949.	3.2	14
70	Exploration of copper-cysteamine nanoparticles as an efficient heterogeneous Fenton-like catalyst for wastewater treatment. <i>Materials Today Physics</i> , 2022, 22, 100587.	2.9	14
71	Improving the adsorption capacity for ovalbumin by functional modification of aminated mesoporous silica nanoparticles with tryptophan. <i>Journal of Materials Chemistry B</i> , 2018, 6, 7703-7709.	2.9	13
72	Two-dimensional titanate-based zwitterionic hydrophilic sorbent for the selective adsorption of glycoproteins. <i>Analytica Chimica Acta</i> , 2019, 1088, 72-78.	2.6	13

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73	DMSA-Functionalized Mesoporous Alumina with a High Capacity for Selective Isolation of Immunoglobulin G. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36286-36295.	4.0	13
74	Boron-Modified Defect-Rich Molybdenum Disulfide Nanosheets: Reducing Nonspecific Adsorption and Promoting a High Capacity for Isolation of Immunoglobulin G. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 43273-43280.	4.0	13
75	Terbium doping of graphitic carbon nitride endows a highly sensitive ratiometric fluorescence assay of alkaline phosphatase. <i>Chemical Communications</i> , 2021, 57, 8746-8749.	2.2	13
76	Sensitive Western-Blot Analysis of Azide-Tagged Protein Post Translational Modifications Using Thermoresponsive Polymer Self-Assembly. <i>Analytical Chemistry</i> , 2018, 90, 2186-2192.	3.2	12
77	PEGylated titanate nanosheets: hydrophilic monolayers with a superior capacity for the selective isolation of immunoglobulin G. <i>Nanoscale</i> , 2018, 10, 12535-12542.	2.8	12
78	Ensuring high selectivity for preconcentration and detection of ultra-trace cadmium using a phage-functionalized metal-organic framework. <i>Analyst, The</i> , 2020, 145, 5280-5288.	1.7	10
79	A strategy to differentiate dopamine and levodopa based on their cyclization reaction regulated by pH. <i>Analytica Chimica Acta</i> , 2021, 1157, 338379.	2.6	10
80	Investigation on selenium and mercury interactions and the distribution patterns in mice organs with LA-ICP-MS imaging. <i>Analytica Chimica Acta</i> , 2021, 1182, 338941.	2.6	10
81	Biological cells in the speciation analysis of heavy metals. <i>Analytical Methods</i> , 2016, 8, 8251-8261.	1.3	9
82	Tetra-nickel substituted polyoxotungstate as an efficient sorbent for the isolation of His6-tagged proteins from cell lysate. <i>Talanta</i> , 2017, 171, 173-178.	2.9	9
83	High Time-Resolution Optical Sensor for Monitoring Atmospheric Nitrogen Dioxide. <i>Analytical Chemistry</i> , 2017, 89, 13064-13068.	3.2	9
84	Mercury speciation based on mercury-stimulated peroxidase mimetic activity of gold nanoparticles. <i>Analyst, The</i> , 2020, 145, 5200-5205.	1.7	9
85	A modular single-cell pipette microfluidic chip coupling to ETAAS and ICP-MS for single cell analysis. <i>Chinese Chemical Letters</i> , 2022, 33, 1373-1376.	4.8	9
86	Discrimination of pathogenic bacteria with boronic acid modified protonated g-C <sub>3</sub> N <sub>4</sub> nanosheets at various pHs. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129951.	4.0	9
87	Novel thiol-functionalized covalent organic framework-enabled ICP-MS measurement of ultra-trace metals in complex matrices. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 157-164.	1.6	9
88	A novel porous polymeric microsphere for the selective adsorption and isolation of conalbumin. <i>Analytica Chimica Acta</i> , 2021, 1148, 238176.	2.6	8
89	Titanium dioxide- $\epsilon$ -functionalized dendritic mesoporous silica nanoparticles for highly selective isolation of phosphoproteins. <i>Journal of Separation Science</i> , 2021, 44, 3618-3625.	1.3	8
90	Novel Dielectric Barrier Discharge Trap for Arsenic Introduced by Electrothermal Vaporization: Possible Mechanism and Its Application. <i>Analytical Chemistry</i> , 2021, 93, 15063-15071.	3.2	8

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91	Immunolabeling lanthanide nanoparticles for alpha-fetoprotein measurement and cancer cells counting with detection of ICP-MS. <i>Analytica Chimica Acta</i> , 2022, 1201, 339639.	2.6	8
92	The sensitive fluorescence assay of phosphates and alkaline phosphatase based on terbium nanocomplexes synthesized via ligand proportion regulation. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131574.	4.0	8
93	Dual mode assay of glutathione with Tb-doped g-C <sub>3</sub> N <sub>4</sub> /MnO <sub>2</sub> nanoconjugates as fluorescence probe and Mn as elemental target. <i>Analytica Chimica Acta</i> , 2022, 1221, 340100.	2.6	8
94	Metallothionein isoforms for selective biosorption and preconcentration of cadmium at ultra-trace levels. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 929-935.	1.6	7
95	Purification of hemoglobin by adsorption on nitrogen-doped flower-like carbon superstructures. <i>Mikrochimica Acta</i> , 2020, 187, 162.	2.5	7
96	Dual-mode imaging of copper transporter 1 in HepG2 cells by hyphenating confocal laser scanning microscopy with laser ablation ICPMS. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1353-1361.	1.9	7
97	Intracellular silver speciation by coupling capillary electrophoresis to ICP-MS integrating a high performance spiral flow spray chamber. <i>Analytica Chimica Acta</i> , 2021, 1166, 338540.	2.6	7
98	Rare-Earth Doping Graphitic Carbon Nitride Endows Distinctive Multiple Emissions with Large Stokes Shifts. <i>CCS Chemistry</i> , 2022, 4, 1990-1999.	4.6	7
99	M13 phage as network frame for the quantification of Pb <sup>2+</sup> based on the Pb <sup>2+</sup> -induced in-situ growth of gold nanoparticles. <i>Analytica Chimica Acta</i> , 2019, 1073, 72-78.	2.6	6
100	Performing flow injection chromatography using a narrow open tubular column. <i>Analytica Chimica Acta</i> , 2020, 1109, 19-26.	2.6	6
101	Online High Temporal Resolution Measurement of Atmospheric Sulfate and Sulfur Trioxide with a Light Emitting Diode and Liquid Core Waveguide-Based Sensor. <i>Analytical Chemistry</i> , 2018, 90, 7843-7847.	3.2	5
102	Iron-chelated thermoresponsive polymer brushes on bismuth titanate nanosheets for metal affinity separation of phosphoproteins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111282.	2.5	5
103	Identification of intracellular cadmium transformation in HepG2 and MCF-7 cells. <i>Talanta</i> , 2020, 218, 121065.	2.9	5
104	Insights into Surface Charge of Single Particles at the Orifice of a Nanopipette. <i>Analytical Chemistry</i> , 2022, 94, 8187-8193.	3.2	5
105	Cryogenic Laser Ablation in a Rapid Cooling Chamber Ensures Excellent Elemental Imaging in Fresh Biological Tissues. <i>Analytical Chemistry</i> , 2022, 94, 8547-8553.	3.2	4