

Rui Liu

List of Publications by Year in descending order

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91
papers

3,482
citations

109321

35
h-index

155660

55
g-index

93
all docs

93
docs citations

93
times ranked

3566
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-Tunable Strategies for a Tumor Targeted Drug Delivery System. ACS Central Science, 2020, 6, 100-116.	11.3	281
2	Highly Sensitive Immunoassay Based on Immunogold-Silver Amplification and Inductively Coupled Plasma Mass Spectrometric Detection. Analytical Chemistry, 2011, 83, 2330-2336.	6.5	150
3	Sequentially responsive biomimetic nanoparticles with optimal size in combination with checkpoint blockade for cascade synergetic treatment of breast cancer and lung metastasis. Biomaterials, 2019, 217, 119309.	11.4	149
4	Theranostic nanoparticles with tumor-specific enzyme-triggered size reduction and drug release to perform photothermal therapy for breast cancer treatment. Acta Pharmaceutica Sinica B, 2019, 9, 410-420.	12.0	147
5	Macrophage-mimic shape changeable nanomedicine retained in tumor for multimodal therapy of breast cancer. Journal of Controlled Release, 2020, 321, 589-601.	9.9	135
6	Metal Stable Isotope Tagging: Renaissance of Radioimmunoassay for Multiplex and Absolute Quantification of Biomolecules. Accounts of Chemical Research, 2016, 49, 775-783.	15.6	130
7	Phagocyte-membrane-coated and laser-responsive nanoparticles control primary and metastatic cancer by inducing anti-tumor immunity. Biomaterials, 2020, 255, 120159.	11.4	99
8	Inductively coupled plasma mass spectrometry-based immunoassay: A review. Mass Spectrometry Reviews, 2014, 33, 373-393.	5.4	90
9	A new strategy for highly sensitive immunoassay based on single-particle mode detection by inductively coupled plasma mass spectrometry. Journal of the American Society for Mass Spectrometry, 2009, 20, 1096-1103.	2.8	89
10	D-T7 Peptide-Modified PEGylated Bilirubin Nanoparticles Loaded with Cediranib and Paclitaxel for Antiangiogenesis and Chemotherapy of Glioma. ACS Applied Materials & Interfaces, 2019, 11, 176-186.	8.0	79
11	Imaging viscosity and peroxynitrite by a mitochondria-targeting two-photon ratiometric fluorescent probe. Sensors and Actuators B: Chemical, 2018, 276, 238-246.	7.8	78
12	Linear Chimeric Triblock Molecules Self-Assembled Micelles with Controllably Transformable Property to Enhance Tumor Retention for Chemodynamic Photodynamic Therapy of Breast Cancer. Advanced Functional Materials, 2019, 29, 1808462.	14.9	76
13	Turn-on Fluorescent Probe for Exogenous and Endogenous Imaging of Hypochlorous Acid in Living Cells and Quantitative Application in Flow Cytometry. Analytical Chemistry, 2017, 89, 9544-9551.	6.5	74
14	DNA-templated copper nanoparticles: Versatile platform for label-free bioassays. TrAC - Trends in Analytical Chemistry, 2018, 105, 436-452.	11.4	65
15	Silver Enhancement of Gold Nanoparticles for Biosensing: From Qualitative to Quantitative. Applied Spectroscopy Reviews, 2014, 49, 121-138.	6.7	59
16	Multiplex miRNA assay using lanthanide-tagged probes and the duplex-specific nuclease amplification strategy. Chemical Communications, 2016, 52, 14310-14313.	4.1	59
17	Shape Transformable Strategies for Drug Delivery. Advanced Functional Materials, 2021, 31, 2009765.	14.9	57
18	Application of chemical vapor generation in ICP-MS: A review. Science Bulletin, 2013, 58, 1980-1991.	1.7	56

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19	Highly sensitive and interference-free determination of bismuth in environmental samples by electrothermal vaporization atomic fluorescence spectrometry after hydride trapping on iridium-coated tungsten coil. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 704-709.	2.9	51
20	Fast response near-infrared fluorescent probe for hydrogen sulfide in natural waters. <i>Talanta</i> , 2019, 202, 159-164.	5.5	48
21	Self-propelled nanomotor reconstructs tumor microenvironment through synergistic hypoxia alleviation and glycolysis inhibition for promoted anti-metastasis. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 2924-2936.	12.0	47
22	Novel Strategy for Engineering the Metal-Oxide@MOF Core@Shell Architecture and Its Applications in Cataluminescence Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3471-3480.	8.0	47
23	Biosensors for explosives: State of art and future trends. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 123-137.	11.4	45
24	Visualization of Lung Inflammation to Pulmonary Fibrosis via Peroxynitrite Fluctuation. <i>Analytical Chemistry</i> , 2019, 91, 11461-11466.	6.5	43
25	Inorganic arsenic speciation analysis of water samples by trapping arsine on tungsten coil for atomic fluorescence spectrometric determination. <i>Talanta</i> , 2009, 78, 885-890.	5.5	42
26	Thiol-functionalized single-layered MoS ₂ nanosheet as a photoluminescence sensing platform via charge transfer for dopamine detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 380-388.	7.8	40
27	Metal-Free Cataluminescence Gas Sensor for Hydrogen Sulfide Based on Its Catalytic Oxidation on Silicon Carbide Nanocages. <i>Analytical Chemistry</i> , 2017, 89, 13666-13672.	6.5	40
28	Atomic absorption spectrometric determination of trace tellurium after hydride trapping on platinum-coated tungsten coil. <i>Microchemical Journal</i> , 2010, 95, 320-325.	4.5	38
29	Label-Free DNA Assay by Metal Stable Isotope Detection. <i>Analytical Chemistry</i> , 2017, 89, 13269-13274.	6.5	38
30	Sensitive sandwich immunoassay based on single particle mode inductively coupled plasma mass spectrometry detection. <i>Talanta</i> , 2010, 83, 48-54.	5.5	37
31	New competitive dendrimer-based and highly selective immunosensor for determination of atrazine in environmental, feed and food samples: The importance of antibody selectivity for discrimination among related triazinic metabolites. <i>Analytica Chimica Acta</i> , 2014, 806, 197-203.	5.4	37
32	Homogeneous Multiplex Immunoassay for One-Step Pancreatic Cancer Biomarker Evaluation. <i>Analytical Chemistry</i> , 2020, 92, 16105-16112.	6.5	37
33	Highly efficient cataluminescence gas sensor for acetone vapor based on UIO-66 metal-organic frameworks as preconcentrator. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127952.	7.8	37
34	Sensitive determination of mercury by a miniaturized spectrophotometer after in situ single-drop microextraction. <i>Journal of Hazardous Materials</i> , 2010, 183, 549-553.	12.4	36
35	Single nanoparticle analysis by ICPMS: a potential tool for bioassay. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 57-67.	3.0	36
36	Absolute Quantification of Peptides by Isotope Dilution Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry and Gas Chromatography/Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 4087-4093.	6.5	35

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37	Simultaneous monitoring of polarity changes of lipid droplets and lysosomes with two-photon fluorescent probes. <i>Analytica Chimica Acta</i> , 2020, 1136, 34-41.	5.4	35
38	Protein Quantitation Using Ru-NHS Ester Tagging and Isotope Dilution High-Pressure Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry Determination. <i>Analytical Chemistry</i> , 2012, 84, 2769-2775.	6.5	33
39	Antibody-biotemplated HgS nanoparticles: Extremely sensitive labels for atomic fluorescence spectrometric immunoassay. <i>Analyst, The</i> , 2012, 137, 1473.	3.5	32
40	Multimodal Imaging Iridium(III) Complex for Hypochlorous Acid in Living Systems. <i>Analytical Chemistry</i> , 2020, 92, 8285-8291.	6.5	32
41	Poly(thymine)-CuNPs: Bimodal Methodology for Accurate and Selective Detection of TNT at Sub-PPT Levels. <i>Analytical Chemistry</i> , 2018, 90, 14469-14474.	6.5	31
42	Direct determination of mercury in cosmetic samples by isotope dilution inductively coupled plasma mass spectrometry after dissolution with formic acid. <i>Analytica Chimica Acta</i> , 2014, 812, 6-11.	5.4	30
43	Metal-Tagged CRISPR/Cas12a Bioassay Enables Ultrasensitive and Highly Selective Evaluation of Kanamycin Bioaccumulation in Fish Samples. <i>Analytical Chemistry</i> , 2021, 93, 14214-14222.	6.5	30
44	Mass Spectrometric Assay of Alpha-Fetoprotein Isoforms for Accurate Serological Evaluation. <i>Analytical Chemistry</i> , 2020, 92, 4807-4813.	6.5	29
45	Incorporating Landslide Spatial Information and Correlated Features among Conditioning Factors for Landslide Susceptibility Mapping. <i>Remote Sensing</i> , 2021, 13, 2166.	4.0	29
46	Element probe based CRISPR/Cas14 bioassay for non-nucleic-acid targets. <i>Chemical Communications</i> , 2021, 57, 10423-10426.	4.1	28
47	Determination of total mercury in biological tissue by isotope dilution ICPMS after UV photochemical vapor generation. <i>Talanta</i> , 2013, 117, 371-375.	5.5	26
48	Sensitive determination of osmium in natural waters by inductively coupled plasma mass spectrometry after photochemical vapor generation. <i>Microchemical Journal</i> , 2017, 130, 281-286.	4.5	26
49	Raspberry-Like Mesoporous Zn _{1.07} Ga _{2.34} Si _{0.98} O _{6.56} :Cr _{0.01} Nanocarriers for Enhanced Near-Infrared Afterglow Imaging and Combined Cancer Chemotherapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44978-44988.	8.0	26
50	Highly sensitive pneumatic nebulization flame furnace atomic absorption spectrometry: complete sample aerosol introduction and on-line preconcentration of cadmium by atom trap. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 37-42.	3.0	25
51	Label-Free CRISPR/Cas9 Assay for Site-Specific Nucleic Acid Detection. <i>Analytical Chemistry</i> , 2019, 91, 10870-10878.	6.5	25
52	Green Synthesis of Silver Nanoparticles at Room Temperature Using Kiwifruit Juice. <i>Spectroscopy Letters</i> , 2014, 47, 790-795.	1.0	24
53	Modulating near-infrared persistent luminescence of core-shell nanoplatform for imaging of glutathione in tumor mouse model. <i>Biosensors and Bioelectronics</i> , 2019, 144, 111671.	10.1	24
54	LRET-based functional persistent luminescence nanoprobe for imaging and detection of cyanide ion. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 189-196.	7.8	24

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55	Comparison of tungsten coil electrothermal vaporization and thermospray sample introduction methods for flame furnace atomic absorption spectrometry. <i>Talanta</i> , 2009, 77, 1778-1782.	5.5	22
56	Inductively coupled plasma mass spectrometry for determination of total urinary protein with CdTe quantum dots label. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2493.	3.0	21
57	Enzyme-free amplified DNA assay: five orders of linearity provided by metal stable isotope detection. <i>Chemical Communications</i> , 2018, 54, 13782-13785.	4.1	21
58	Self-Validated Homogeneous Immunoassay by Single Nanoparticle in-Depth Scrutinization. <i>Analytical Chemistry</i> , 2020, 92, 2876-2881.	6.5	19
59	Tag-Free Methodology for Ultrasensitive Biosensing of miRNA Based on Intrinsic Isotope Detection. <i>Analytical Chemistry</i> , 2020, 92, 8523-8529.	6.5	18
60	Label-Free Nuclease Assay with Long-Term Stability. <i>Analytical Chemistry</i> , 2019, 91, 8691-8696.	6.5	16
61	Illuminate Proteins and Peptides by Elemental Tag for HPLC-ICP-MS Detection. <i>Applied Spectroscopy Reviews</i> , 2014, 49, 492-512.	6.7	15
62	Ratiometric DNA Walking Machine for Accurate and Amplified Bioassay. <i>Chemistry - A European Journal</i> , 2019, 25, 12270-12274.	3.3	15
63	Dual-amplified CRISPR-Cas12a bioassay for HIV-related nucleic acids. <i>Chemical Communications</i> , 2022, 58, 4247-4250.	4.1	14
64	Old commercialized magnetic particles new trick: Intrinsic internal standard. <i>Chinese Chemical Letters</i> , 2022, 33, 1267-1270.	9.0	13
65	Multiplex DNA Walking Machines for Lung Cancer-Associated miRNAs. <i>Analytical Chemistry</i> , 2022, 94, 1787-1794.	6.5	13
66	Glymphatic System and Subsidiary Pathways Drive Nanoparticles Away from the Brain. <i>Research</i> , 2022, 2022, 9847612.	5.7	13
67	Multiplex Nucleic Acid Assay of SARS-CoV-2 via a Lanthanide Nanoparticle-Tagging Strategy. <i>Analytical Chemistry</i> , 2021, 93, 12714-12722.	6.5	12
68	A novel synthesis of spherical LiFePO ₄ /C composite using Fe _{1.5} P and mixed lithium salts via oxygen permeation. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1094-1101.	2.7	11
69	A sensitive atomic absorption spectrometric metalloimmunoassay with copper nanoparticles labeling. <i>Microchemical Journal</i> , 2016, 126, 1-6.	4.5	11
70	When imaging meets size-transformable nanosystems. <i>Advanced Drug Delivery Reviews</i> , 2022, 183, 114176.	13.7	11
71	Effects of the Addition of Selenium on Trace Element Concentrations in Danshen (<i>Salvia miltiorrhiza</i>). <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1873-1880.	1.8	10
72	Isotopic core-satellites enable accurate and sensitive bioassay of adenosine triphosphate. <i>Chemical Communications</i> , 2019, 55, 10665-10668.	4.1	10

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73	Roles of G Protein-Coupled Receptors (GPCRs) in Gastrointestinal Cancers: Focus on Sphingosine 1-Phosphate Receptors, Angiotensin II Receptors, and Estrogen-Related GPCRs. <i>Cells</i> , 2021, 10, 2988.	4.1	10
74	Application of NaYF ₄ :Yb,Er Nanoparticles as Peroxidase Mimetics in Uric Acid Detection. <i>Chinese Journal of Analytical Chemistry</i> , 2013, 41, 330-336.	1.7	9
75	Lanthanide Nanoprobes for the Multiplex Evaluation of Breast Cancer Biomarkers. <i>Analytical Chemistry</i> , 2021, 93, 13719-13726.	6.5	9
76	Element coding based accurate evaluation of CRISPR/Cas9 initial cleavage. <i>Chemical Science</i> , 2021, 12, 13404-13412.	7.4	8
77	Synthesis and electrochemical characteristics of Fe-P alloy prepared by electrothermal reduction method. <i>Metals and Materials International</i> , 2010, 16, 993-999.	3.4	7
78	ICPMS based multiplexed bioassay: Principles, approaches and progresses. <i>Applied Spectroscopy Reviews</i> , 2023, 58, 39-64.	6.7	7
79	Standard-free single magnetic bead evaluation: a stable nanopatform for prostate disease differentiation. <i>Chemical Science</i> , 2022, 13, 6270-6275.	7.4	7
80	Kiwifruit as Reducing Reagent for Green Synthesis of Gold Nanoparticles at Room Temperature. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 118-123.	0.4	6
81	Single nanoparticle analysis for homogeneous immunoassay of CA19-9 for serological evaluation. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 279-284.	3.0	6
82	Engineering activatable nanoprobes based on time-resolved luminescence for chemo/biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 140, 116283.	11.4	6
83	Exploration of nano-surface chemistry for spectral analysis. <i>Science Bulletin</i> , 2013, 58, 2017-2026.	1.7	5
84	Switchable supramolecular ensemble for anion binding with ditopic hydrogen-bonded macrocycles. <i>Organic Chemistry Frontiers</i> , 2021, 8, 5271-5279.	4.5	5
85	Sensitive and Simultaneous Determination of As and Hg in Human Hair, Nail, and Saliva by CVG-AFS. <i>Atomic Spectroscopy</i> , 2013, 34, 238-243.	1.2	4
86	Elemental Probe-Based CRISPR/Cas12a Biosensing For Sensitive Tobramycin Detection. <i>Atomic Spectroscopy</i> , 2022, 43, .	1.2	4
87	Photochemical Vapor Generation for the Sensitive Determination of Mercury in Soil and Sediment Samples by Atomic Fluorescence Spectrometry. <i>Atomic Spectroscopy</i> , 2016, 37, 190-194.	1.2	2
88	HOGG1-assisted DNA methylation analysis via a sensitive lanthanide labelling strategy. <i>Talanta</i> , 2022, 239, 123136.	5.5	2
89	A electro-thermal atomic absorption spectrometry-based assay for disease-related DNA. <i>Microchemical Journal</i> , 2016, 126, 302-306.	4.5	1
90	Application of NaYF ₄ :Yb,Er Nanoparticles as Peroxidase Mimetics in Uric Acid Detection. <i>Chinese Journal of Analytical Chemistry</i> , 2014, 41, 330-336.	1.7	1

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91	The research on digital tourism engineering evaluation method based on FAHP. , 2009, , .		0