

Rui Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2360242/publications.pdf>

Version: 2024-02-01

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	ICPMS based multiplexed bioassay: Principles, approaches and progresses. <i>Applied Spectroscopy Reviews</i> , 2023, 58, 39-64.	6.7	7
2	Old commercialized magnetic particles new trick: Intrinsic internal standard. <i>Chinese Chemical Letters</i> , 2022, 33, 1267-1270.	9.0	13
3	HOGG1-assisted DNA methylation analysis via a sensitive lanthanide labelling strategy. <i>Talanta</i> , 2022, 239, 123136.	5.5	2
4	Elemental Probe-Based CRISPR/Cas12a Biosensing For Sensitive Tobramycin Detection. <i>Atomic Spectroscopy</i> , 2022, 43, .	1.2	4
5	Multiplex DNA Walking Machines for Lung Cancer-Associated miRNAs. <i>Analytical Chemistry</i> , 2022, 94, 1787-1794.	6.5	13
6	Dual-amplified CRISPR-Cas12a bioassay for HIV-related nucleic acids. <i>Chemical Communications</i> , 2022, 58, 4247-4250.	4.1	14
7	Glymphatic System and Subsidiary Pathways Drive Nanoparticles Away from the Brain. <i>Research</i> , 2022, 2022, 9847612.	5.7	13
8	When imaging meets size-transformable nanosystems. <i>Advanced Drug Delivery Reviews</i> , 2022, 183, 114176.	13.7	11
9	Standard-free single magnetic bead evaluation: a stable nanoplatform for prostate disease differentiation. <i>Chemical Science</i> , 2022, 13, 6270-6275.	7.4	7
10	Element coding based accurate evaluation of CRISPR/Cas9 initial cleavage. <i>Chemical Science</i> , 2021, 12, 13404-13412.	7.4	8
11	Switchable supramolecular ensemble for anion binding with ditopic hydrogen-bonded macrocycles. <i>Organic Chemistry Frontiers</i> , 2021, 8, 5271-5279.	4.5	5
12	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
13	Element probe based CRISPR/Cas14 bioassay for non-nucleic-acid targets. <i>Chemical Communications</i> , 2021, 57, 10423-10426.	4.1	28
14	Shape Transformable Strategies for Drug Delivery. <i>Advanced Functional Materials</i> , 2021, 31, 2009765.	14.9	57
15	Incorporating Landslide Spatial Information and Correlated Features among Conditioning Factors for Landslide Susceptibility Mapping. <i>Remote Sensing</i> , 2021, 13, 2166.	4.0	29
16	Engineering activatable nanoprobe based on time-resolved luminescence for chemo/biosensing. <i>Trends in Analytical Chemistry</i> , 2021, 140, 116283.	11.4	6
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Lanthanide Nanoprobes for the Multiplex Evaluation of Breast Cancer Biomarkers. <i>Analytical Chemistry</i> , 2021, 93, 13719-13726.	6.5	9
20	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
21	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
22	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
23	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
24	Homogeneous Multiplex Immunoassay for One-Step Pancreatic Cancer Biomarker Evaluation. <i>Analytical Chemistry</i> , 2020, 92, 16105-16112.	6.5	37
25	Multimodal Imaging Iridium(III) Complex for Hypochlorous Acid in Living Systems. <i>Analytical Chemistry</i> , 2020, 92, 8285-8291.	6.5	32
26	Phagocyte-membrane-coated and laser-responsive nanoparticles control primary and metastatic cancer by inducing anti-tumor immunity. <i>Biomaterials</i> , 2020, 255, 120159.	11.4	99
27	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
28	Macrophage-mimic shape changeable nanomedicine retained in tumor for multimodal therapy of breast cancer. <i>Journal of Controlled Release</i> , 2020, 321, 589-601.	9.9	135
29	Mass Spectrometric Assay of Alpha-Fetoprotein Isoforms for Accurate Serological Evaluation. <i>Analytical Chemistry</i> , 2020, 92, 4807-4813.	6.5	29
30	Self-Validated Homogeneous Immunoassay by Single Nanoparticle in-Depth Scrutinization. <i>Analytical Chemistry</i> , 2020, 92, 2876-2881.	6.5	19
31	Size-Tunable Strategies for a Tumor Targeted Drug Delivery System. <i>ACS Central Science</i> , 2020, 6, 100-116.	11.3	281
32	Tag-Free Methodology for Ultrasensitive Biosensing of miRNA Based on Intrinsic Isotope Detection. <i>Analytical Chemistry</i> , 2020, 92, 8523-8529.	6.5	18
33	Isotopic core-satellites enable accurate and sensitive bioassay of adenosine triphosphate. <i>Chemical Communications</i> , 2019, 55, 10665-10668.	4.1	10
34	Ratiometric DNA Walking Machine for Accurate and Amplified Bioassay. <i>Chemistry - A European Journal</i> , 2019, 25, 12270-12274.	3.3	15
35	Label-Free CRISPR/Cas9 Assay for Site-Specific Nucleic Acid Detection. <i>Analytical Chemistry</i> , 2019, 91, 10870-10878.	6.5	25
36	Visualization of Lung Inflammation to Pulmonary Fibrosis via Peroxynitrite Fluctuation. <i>Analytical Chemistry</i> , 2019, 91, 11461-11466.	6.5	43

#	ARTICLE	IF	CITATIONS
37	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
38	Sequentially responsive biomimetic nanoparticles with optimal size in combination with checkpoint blockade for cascade synergetic treatment of breast cancer and lung metastasis. <i>Biomaterials</i> , 2019, 217, 119309.	11.4	149
39	Label-Free Nuclease Assay with Long-Term Stability. <i>Analytical Chemistry</i> , 2019, 91, 8691-8696.	6.5	16
40	Biosensors for explosives: State of art and future trends. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 123-137.	11.4	45
41	Fast response near-infrared fluorescent probe for hydrogen sulfide in natural waters. <i>Talanta</i> , 2019, 202, 159-164.	5.5	48
42	Linear Chimeric Triblock Molecules Self-Assembled Micelles with Controllably Transformable Property to Enhance Tumor Retention for Chemo-Photodynamic Therapy of Breast Cancer. <i>Advanced Functional Materials</i> , 2019, 29, 1808462.	14.9	76
43	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
44	Theranostic nanoparticles with tumor-specific enzyme-triggered size reduction and drug release to perform photothermal therapy for breast cancer treatment. <i>Acta Pharmaceutica Sinica B</i> , 2019, 9, 410-420.	12.0	147
45	D-T7 Peptide-Modified PEGylated Bilirubin Nanoparticles Loaded with Cediranib and Paclitaxel for Antiangiogenesis and Chemotherapy of Glioma. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 176-186.	8.0	79
46	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
47	Single nanoparticle analysis by ICPMS: a potential tool for bioassay. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 57-67.	3.0	36
48	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
49	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
50	Imaging viscosity and peroxynitrite by a mitochondria-targeting two-photon ratiometric fluorescent probe. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 238-246.	7.8	78
51	DNA-templated copper nanoparticles: Versatile platform for label-free bioassays. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 105, 436-452.	11.4	65
52	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
53	Turn-on Fluorescent Probe for Exogenous and Endogenous Imaging of Hypochlorous Acid in Living Cells and Quantitative Application in Flow Cytometry. <i>Analytical Chemistry</i> , 2017, 89, 9544-9551.	6.5	74
54	Label-Free DNA Assay by Metal Stable Isotope Detection. <i>Analytical Chemistry</i> , 2017, 89, 13269-13274.	6.5	38

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Multiplex miRNA assay using lanthanide-tagged probes and the duplex-specific nuclease amplification strategy. <i>Chemical Communications</i> , 2016, 52, 14310-14313.	4.1	59
58	Metal Stable Isotope Tagging: Renaissance of Radioimmunoassay for Multiplex and Absolute Quantification of Biomolecules. <i>Accounts of Chemical Research</i> , 2016, 49, 775-783.	15.6	130
59	A electro-thermal atomic absorption spectrometry-based assay for disease-related DNA. <i>Microchemical Journal</i> , 2016, 126, 302-306.	4.5	1
60	A sensitive atomic absorption spectrometric metalloimmunoassay with copper nanoparticles labeling. <i>Microchemical Journal</i> , 2016, 126, 1-6.	4.5	11
61	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
62	Effects of the Addition of Selenium on Trace Element Concentrations in Danshen (<i>Salvia miltiorrhiza</i>) Tissue. <i>Journal of Analytical Chemistry</i> , 2015, 42, 462-467.	1.8	10
63	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
64	Silver Enhancement of Gold Nanoparticles for Biosensing: From Qualitative to Quantitative. <i>Applied Spectroscopy Reviews</i> , 2014, 49, 121-138.	6.7	59
65	Illuminate Proteins and Peptides by Elemental Tag for HPLC-ICP-MS Detection. <i>Applied Spectroscopy Reviews</i> , 2014, 49, 492-512.	6.7	15
66	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
67	Green Synthesis of Silver Nanoparticles at Room Temperature Using Kiwifruit Juice. <i>Spectroscopy Letters</i> , 2014, 47, 790-795.	1.0	24
68	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
69	Inductively coupled plasma mass spectrometry-based immunoassay: A review. <i>Mass Spectrometry Reviews</i> , 2014, 33, 373-393.	5.4	90
70	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
71	Application of chemical vapor generation in ICP-MS: A review. <i>Science Bulletin</i> , 2013, 58, 1980-1991.	1.7	56
72	Exploration of nano-surface chemistry for spectral analysis. <i>Science Bulletin</i> , 2013, 58, 2017-2026.	1.7	5

#	ARTICLE	IF	CITATIONS
73	Application of NaYF ₄ :Yb,Er Nanoparticles as Peroxidase Mimetics in Uric Acid Detection. Chinese Journal of Analytical Chemistry, 2013, 41, 330-336.	1.7	9
74	Determination of total mercury in biological tissue by isotope dilution ICPMS after UV photochemical vapor generation. Talanta, 2013, 117, 371-375.	5.5	26
75	Absolute Quantification of Peptides by Isotope Dilution Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry and Gas Chromatography/Mass Spectrometry. Analytical Chemistry, 2013, 85, 4087-4093.	6.5	35
76	Sensitive and Simultaneous Determination of As and Hg in Human Hair, Nail, and Saliva by CVG-AFS. Atomic Spectroscopy, 2013, 34, 238-243.	1.2	4
77	Antibody-biotemplated HgS nanoparticles: Extremely sensitive labels for atomic fluorescence spectrometric immunoassay. Analyst, The, 2012, 137, 1473.	3.5	32
78	Protein Quantitation Using Ru-NHS Ester Tagging and Isotope Dilution High-Pressure Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry Determination. Analytical Chemistry, 2012, 84, 2769-2775.	6.5	33
79	A novel synthesis of spherical LiFePO ₄ /C composite using Fe _{1.5} P and mixed lithium salts via oxygen permeation. Korean Journal of Chemical Engineering, 2012, 29, 1094-1101.	2.7	11
80	Inductively coupled plasma mass spectrometry for determination of total urinary protein with CdTe quantum dots label. Journal of Analytical Atomic Spectrometry, 2011, 26, 2493.	3.0	21
81	Highly Sensitive Immunoassay Based on Immunogold-Silver Amplification and Inductively Coupled Plasma Mass Spectrometric Detection. Analytical Chemistry, 2011, 83, 2330-2336.	6.5	150
82	Synthesis and electrochemical characteristics of Fe-P alloy prepared by electrothermal reduction method. Metals and Materials International, 2010, 16, 993-999.	3.4	7
83	Sensitive determination of mercury by a miniaturized spectrophotometer after in situ single-drop microextraction. Journal of Hazardous Materials, 2010, 183, 549-553.	12.4	36
84	Atomic absorption spectrometric determination of trace tellurium after hydride trapping on platinum-coated tungsten coil. Microchemical Journal, 2010, 95, 320-325.	4.5	38
85	Sensitive sandwich immunoassay based on single particle mode inductively coupled plasma mass spectrometry detection. Talanta, 2010, 83, 48-54.	5.5	37
86	The research on digital tourism engineering evaluation method based on FAHP. , 2009, , .		0
87	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
88	Comparison of tungsten coil electrothermal vaporization and thermospray sample introduction methods for flame furnace atomic absorption spectrometry. Talanta, 2009, 77, 1778-1782.	5.5	22
89	Inorganic arsenic speciation analysis of water samples by trapping arsine on tungsten coil for atomic fluorescence spectrometric determination. Talanta, 2009, 78, 885-890.	5.5	42
90	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. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 704-709.	2.9	51

#	ARTICLE	IF	CITATIONS
91	Highly sensitive pneumatic nebulization flame furnace atomic absorption spectrometry: complete sample aerosol introduction and on-line preconcentration of cadmium by atom trap. Journal of Analytical Atomic Spectrometry, 2008, 23, 37-42.	3.0	25