

Wei Ren

List of Publications by Year in descending order

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33
papers

1,780
citations

471509

17
h-index

434195

31
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33
all docs

33
docs citations

33
times ranked

2546
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Nanomaterials and Enabling Technologies for High-Security-Level Anticounterfeiting. <i>Advanced Materials</i> , 2020, 32, e1901430.	21.0	305
2	Activation of the surface dark-layer to enhance upconversion in a thermal field. <i>Nature Photonics</i> , 2018, 12, 154-158.	31.4	270
3	Three-dimensional controlled growth of monodisperse sub-50-nm heterogeneous nanocrystals. <i>Nature Communications</i> , 2016, 7, 10254.	12.8	267
4	Graphene Surface-Anchored Fluorescence Sensor for Sensitive Detection of MicroRNA Coupled with Enzyme-Free Signal Amplification of Hybridization Chain Reaction. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6450-6453.	8.0	202
5	Water-resistant perovskite nanodots enable robust two-photon lasing in aqueous environment. <i>Nature Communications</i> , 2020, 11, 1192.	12.8	123
6	New CRISPR-Derived microRNA Sensing Mechanism Based on Cas12a Self-Powered and Rolling Circle Transcription-Unleashed Real-Time crRNA Recruiting. <i>Analytical Chemistry</i> , 2020, 92, 6702-6708.	6.5	88
7	Upconversion Nanophosphor: An Efficient Phosphopeptides-Recognizing Matrix and Luminescence Resonance Energy Transfer Donor for Robust Detection of Protein Kinase Activity. <i>Analytical Chemistry</i> , 2014, 86, 6095-6102.	6.5	64
8	One-Step Protein Conjugation to Upconversion Nanoparticles. <i>Analytical Chemistry</i> , 2015, 87, 10406-10413.	6.5	54
9	A cytometric bead assay for sensitive DNA detection based on enzyme-free signal amplification of hybridization chain reaction. <i>Biosensors and Bioelectronics</i> , 2013, 49, 380-386.	10.1	53
10	Anisotropic functionalization of upconversion nanoparticles. <i>Chemical Science</i> , 2018, 9, 4352-4358.	7.4	45
11	Algal blooms: Proactive strategy. <i>Science</i> , 2014, 346, 175-176.	12.6	43
12	Flow Cytometry-Assisted Mix-and-Read Assay for Ultrasensitive Detection of Protein Kinase Activity by use of Zr ⁴⁺ -Functionalized Mesoporous SiO ₂ Microspheres. <i>Analytical Chemistry</i> , 2013, 85, 10956-10961.	6.5	35
13	A Versatile Photoinduced Electron Transfer-Based Upconversion Fluorescent Biosensing Platform for the Detection of Disease Biomarkers and Nerve Agent. <i>Advanced Functional Materials</i> , 2019, 29, 1903191.	14.9	34
14	Amplification-Free and Mix-and-Read Analysis of Multiplexed MicroRNAs on a Single Plasmonic Microbead. <i>Nano Letters</i> , 2021, 21, 6718-6724.	9.1	25
15	Click Chemistry-Actuated Digital DNA Walker Confined on a Single Particle toward Absolute MicroRNA Quantification. <i>Analytical Chemistry</i> , 2021, 93, 1620-1626.	6.5	25
16	Plasmon-Enhanced Surface-Enhanced Raman Scattering Mapping Concentrated on a Single Bead for Ultrasensitive and Multiplexed Immunoassay. <i>Analytical Chemistry</i> , 2020, 92, 12387-12393.	6.5	19
17	Microchamber-Free Digital Flow Cytometric Analysis of T4 Polynucleotide Kinase Phosphatase Based on Single-Enzyme-to-Single-Bead Space-Confined Reaction. <i>Analytical Chemistry</i> , 2021, 93, 14828-14836.	6.5	19
18	Enhanced energy transfer in heterogeneous nanocrystals for near infrared upconversion photocurrent generation. <i>Nanoscale</i> , 2017, 9, 18661-18667.	5.6	14

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19	Direct cation exchange of surface ligand capped upconversion nanocrystals to produce strong luminescence. <i>Chemical Communications</i> , 2018, 54, 9587-9590.	4.1	13
20	Tea polyphenols protect learning and memory in sleep-deprived mice by promoting AMPA receptor internalization. <i>NeuroReport</i> , 2020, 31, 857-864.	1.2	12
21	An emulsion-free digital flow cytometric platform for the precise quantification of microRNA based on single molecule extension-illuminated microbeads (dFlowSeim). <i>Chemical Communications</i> , 2020, 56, 7179-7182.	4.1	12
22	Programming the <i>trans</i> -cleavage Activity of CRISPR-Cas13a by Single-Strand DNA Blocker and Its Biosensing Application. <i>Analytical Chemistry</i> , 2022, 94, 3987-3996.	6.5	11
23	DNA-mediated anisotropic silica coating of upconversion nanoparticles. <i>Chemical Communications</i> , 2018, 54, 7183-7186.	4.1	9
24	Nucleic Acid Substrate-Independent DNA Polymerization on the Exosome Membrane: A Mechanism Study and Application in Exosome Analysis. <i>Analytical Chemistry</i> , 2022, 94, 2172-2179.	6.5	8
25	Facile Clamp-Assisted Ligation Strategy for Direct Discrimination and Background-Free Quantification of Site-Specific 5-Formylcytosine. <i>Analytical Chemistry</i> , 2020, 92, 3477-3482.	6.5	7
26	Colorimetric and fluorometric dual-readout protein kinase assay by tuning the active surface of nanoceria. <i>Chemical Communications</i> , 2021, 57, 8154-8157.	4.1	7
27	Anticounterfeiting Systems: Optical Nanomaterials and Enabling Technologies for High-Security-Level Anticounterfeiting (<i>Adv. Mater.</i> 18/2020). <i>Advanced Materials</i> , 2020, 32, 2070141.	21.0	6
28	High-Precision Pinpointing of Luminescent Targets in Encoder-Assisted Scanning Microscopy Allowing High-Speed Quantitative Analysis. <i>Analytical Chemistry</i> , 2016, 88, 1312-1319.	6.5	3
29	Trends of Bead Counting-Based Technologies Toward the Detection of Disease-Related Biomarkers. <i>Frontiers in Chemistry</i> , 2020, 8, 600317.	3.6	3
30	Nanoparticle Tracking Analysis-Based <i>In Vitro</i> Detection of Critical Biomarkers. <i>ACS Applied Nano Materials</i> , 2020, 3, 2881-2888.	5.0	3
31	One-step detection of T4 polynucleotide kinase activity based on single particle-confined enzyme reaction and digital particle counting. <i>Chinese Chemical Letters</i> , 2023, 34, 107673.	9.0	1
32	On-bead enzyme-catalyzed signal amplification for the high-sensitive detection of disease biomarkers. <i>Methods in Enzymology</i> , 2020, 630, 179-197.	1.0	0
33	Quantification of Site-Specific 5-Formylcytosine by Integrating Peptide Nucleic Acid-Clamped Ligation with Loop-Mediated Isothermal Amplification. <i>Springer Protocols</i> , 2022, , 77-91.	0.3	0