

Chunyang Lei

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,199
citations

218381

26
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233125

45
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64
all docs

64
docs citations

64
times ranked

2537
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | PAM-less conditional DNA substrates leverage trans-cleavage of CRISPR-Cas12a for versatile live-cell biosensing. <i>Chemical Science</i> , 2022, 13, 2011-2020. | 3.7 | 35 |
| 2 | Integration of electrochemical interface and cell-free synthetic biology for biosensing. <i>Journal of Electroanalytical Chemistry</i> , 2022, 911, 116209. | 1.9 | 6 |
| 3 | A switchable Cas12a enabling CRISPR-based direct histone deacetylase activity detection. <i>Biosensors and Bioelectronics</i> , 2022, 213, 114468. | 5.3 | 12 |
| 4 | Visualization of Deep Tissue G-quadruplexes with a Novel Large Stokes-Shifted Red Fluorescent Benzothiazole Derivative. <i>Analytical Chemistry</i> , 2022, 94, 10283-10290. | 3.2 | 15 |
| 5 | Kinetics Accelerated CRISPR-Cas12a Enabling Live-Cell Monitoring of Mn ²⁺ Homeostasis. <i>Analytical Chemistry</i> , 2022, 94, 10159-10167. | 3.2 | 12 |
| 6 | A ligation-driven CRISPR-Cas biosensing platform for non-nucleic acid target detections. <i>Chemical Communications</i> , 2021, 57, 7051-7054. | 2.2 | 22 |
| 7 | Modular Combination of Proteolysis-Responsive Transcription and Spherical Nucleic Acids for Smartphone-Based Colorimetric Detection of Protease Biomarkers. <i>Analytical Chemistry</i> , 2021, 93, 3517-3525. | 3.2 | 23 |
| 8 | Visual and quantitative detection of <i>E. coli</i> O157:H7 by coupling immunomagnetic separation and quantum dot-based paper strip. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4417-4426. | 1.9 | 8 |
| 9 | Advances in the Integration of Nucleic Acid Nanotechnology into CRISPR-Cas System. <i>Journal of Analysis and Testing</i> , 2021, 5, 130-141. | 2.5 | 14 |
| 10 | Amplified and label-free electrochemical detection of a protease biomarker by integrating proteolysis-triggered transcription. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113372. | 5.3 | 6 |
| 11 | A CRISPR-Cas autocatalysis-driven feedback amplification network for supersensitive DNA diagnostics. <i>Science Advances</i> , 2021, 7, . | 4.7 | 152 |
| 12 | Coupling of proteolysis-triggered transcription and CRISPR-Cas12a for ultrasensitive protease detection. <i>Science China Chemistry</i> , 2021, 64, 330-336. | 4.2 | 18 |
| 13 | Biom mineralization synthesis of a near-infrared fluorescent nanoprobe for direct glucose sensing in whole blood. <i>Nanoscale</i> , 2020, 12, 864-870. | 2.8 | 15 |
| 14 | CRISPR-Cas System for RNA Detection and Imaging. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 157-163. | 1.3 | 8 |
| 15 | Design strategies for fluorescent proteins/mimics and their applications in biosensing and bioimaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 122, 115757. | 5.8 | 18 |
| 16 | Proteolysis-Responsive Rolling Circle Transcription Assay Enabling Femtomolar Sensitivity Detection of a Target Protease Biomarker. <i>Analytical Chemistry</i> , 2020, 92, 16314-16321. | 3.2 | 17 |
| 17 | Dual-Product Synergistically Enhanced Colorimetric Assay for Sensitive Detection of Lipid Transferase Activity. <i>Analytical Chemistry</i> , 2020, 92, 15236-15243. | 3.2 | 4 |
| 18 | Fluorometric and Colorimetric Dual-Readout Assay for Histone Demethylase Activity Based on Formaldehyde Inhibition of Ag ⁺ -Triggered Oxidation of <i>O</i> -Phenylenediamine. <i>Analytical Chemistry</i> , 2020, 92, 9421-9428. | 3.2 | 27 |

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|----|---|-----|-----------|
| 19 | Chimeric Peptides Self-Assembling on Titanium Carbide MXenes as Biosensing Interfaces for Activity Assay of Post-translational Modification Enzymes. <i>Analytical Chemistry</i> , 2020, 92, 8819-8826. | 3.2 | 23 |
| 20 | Integrating CRISPR-Cas12a with a DNA circuit as a generic sensing platform for amplified detection of microRNA. <i>Chemical Science</i> , 2020, 11, 7362-7368. | 3.7 | 169 |
| 21 | Target-activated transcription for the amplified sensing of protease biomarkers. <i>Chemical Science</i> , 2020, 11, 2993-2998. | 3.7 | 16 |
| 22 | Protein@Inorganic Nanodumpling System for High-Loading Protein Delivery with Activatable Fluorescence and Magnetic Resonance Bimodal Imaging Capabilities. <i>ACS Nano</i> , 2020, 14, 2172-2182. | 7.3 | 37 |
| 23 | Advances in antimicrobial peptides-based biosensing methods for detection of foodborne pathogens: A review. <i>Food Control</i> , 2020, 112, 107116. | 2.8 | 59 |
| 24 | Enzyme-activated anchoring of peptide probes onto plasma membranes for selectively lighting up target cells. <i>Analyst</i> , 2020, 145, 3626-3633. | 1.7 | 0 |
| 25 | Click-Type Protein-DNA Conjugation for Mn ²⁺ Imaging in Living Cells. <i>Analytical Chemistry</i> , 2019, 91, 10180-10187. | 3.2 | 7 |
| 26 | A semisynthetic fluorescent protein assembly-based FRET probe for real-time profiling of cell membrane protease functions <i>in situ</i> . <i>Chemical Communications</i> , 2019, 55, 2218-2221. | 2.2 | 13 |
| 27 | Functional Titanium Carbide MXenes-Loaded Entropy-Driven RNA Explorer for Long Noncoding RNA PCA3 Imaging in Live Cells. <i>Analytical Chemistry</i> , 2019, 91, 8622-8629. | 3.2 | 37 |
| 28 | Engineering of Nucleic Acids and Synthetic Cofactors as Holo Sensors for Probing Signaling Molecules in the Cellular Membrane Microenvironment (Angew. Chem. 20/2019). <i>Angewandte Chemie</i> , 2019, 131, 6854-6854. | 1.6 | 0 |
| 29 | Engineering of Nucleic Acids and Synthetic Cofactors as Holo Sensors for Probing Signaling Molecules in the Cellular Membrane Microenvironment. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6590-6594. | 7.2 | 76 |
| 30 | Engineering of Nucleic Acids and Synthetic Cofactors as Holo Sensors for Probing Signaling Molecules in the Cellular Membrane Microenvironment. <i>Angewandte Chemie</i> , 2019, 131, 6662-6666. | 1.6 | 12 |
| 31 | Chimeric DNA-Functionalized Titanium Carbide MXenes for Simultaneous Mapping of Dual Cancer Biomarkers in Living Cells. <i>Analytical Chemistry</i> , 2019, 91, 1651-1658. | 3.2 | 67 |
| 32 | Transpeptidation-Mediated Assembly of Tripartite Split Green Fluorescent Protein for Label-Free Assay of Sortase Activity. <i>Analytical Chemistry</i> , 2018, 90, 3245-3252. | 3.2 | 23 |
| 33 | Light-Up Nonthiolated Aptasensor for Low-Mass, Soluble Amyloid- β ²⁰ Oligomers at High Salt Concentrations. <i>Analytical Chemistry</i> , 2018, 90, 1710-1717. | 3.2 | 53 |
| 34 | Fluorescent Ti ₃ C ₂ MXene quantum dots for an alkaline phosphatase assay and embryonic stem cell identification based on the inner filter effect. <i>Nanoscale</i> , 2018, 10, 19579-19585. | 2.8 | 104 |
| 35 | Cell-Surface-Anchored Ratiometric DNA Tweezer for Real-Time Monitoring of Extracellular and Apoplastic pH. <i>Analytical Chemistry</i> , 2018, 90, 13459-13466. | 3.2 | 70 |
| 36 | Phospholipid-Tailored Titanium Carbide Nanosheets as a Novel Fluorescent Nanoprobe for Activity Assay and Imaging of Phospholipase D. <i>Analytical Chemistry</i> , 2018, 90, 6742-6748. | 3.2 | 52 |

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|----|--|-----|-----------|
| 37 | An enzymatic polymerization-activated silver nanocluster probe for <i>in situ</i> apoptosis assay. <i>Analyst</i> , 2018, 143, 2908-2914. | 1.7 | 7 |
| 38 | Charge designable and tunable GFP as a target pH-responsive carrier for intracellular functional protein delivery and tracing. <i>Chemical Communications</i> , 2018, 54, 7806-7809. | 2.2 | 14 |
| 39 | Bioimmobilization Matrices with Ultrahigh Efficiency Based on Combined Polymerizations of Chemical Oxidation and Metal Organic Coordination for Biosensing. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6229-6236. | 1.5 | 4 |
| 40 | An antimicrobial peptide-based colorimetric bioassay for rapid and sensitive detection of <i>E. coli</i> O157:H7. <i>RSC Advances</i> , 2017, 7, 15769-15775. | 1.7 | 25 |
| 41 | Surface charge tuneable fluorescent protein-based logic gates for smart delivery of nucleic acids. <i>Chemical Communications</i> , 2017, 53, 11326-11329. | 2.2 | 10 |
| 42 | Electrochemical Conversion of Fe ₃ O ₄ Magnetic Nanoparticles to Electroactive Prussian Blue Analogues for Self-Sacrificial Label Biosensing of Avian Influenza Virus H5N1. <i>Analytical Chemistry</i> , 2017, 89, 12145-12151. | 3.2 | 77 |
| 43 | DNA mimics of red fluorescent proteins (RFP) based on G-quadruplex-confined synthetic RFP chromophores. <i>Nucleic Acids Research</i> , 2017, 45, 10380-10392. | 6.5 | 70 |
| 44 | Rapid and sensitive detection of <i>E. coli</i> O157:H7 based on antimicrobial peptide functionalized magnetic nanoparticles and urease-catalyzed signal amplification. <i>Analytical Methods</i> , 2017, 9, 5204-5210. | 1.3 | 27 |
| 45 | Sensitive detection of DNA methyltransferase activity based on supercharged fluorescent protein and template-free DNA polymerization. <i>Science China Chemistry</i> , 2016, 59, 809-815. | 4.2 | 5 |
| 46 | Colorimetric Sensor Array for Thiols Discrimination Based on Urease-Metal Ion Pairs. <i>Analytical Chemistry</i> , 2016, 88, 8542-8547. | 3.2 | 56 |
| 47 | Colorimetric detection of lipopolysaccharides based on a lipopolysaccharide-binding peptide and AuNPs. <i>Analytical Methods</i> , 2016, 8, 8079-8083. | 1.3 | 21 |
| 48 | Sensitive and versatile fluorescent enzymatic assay of nucleases and DNA methyltransferase based on a supercharged fluorescent protein. <i>RSC Advances</i> , 2016, 6, 34074-34080. | 1.7 | 3 |
| 49 | Phosphorylation-Mediated Assembly of a Semisynthetic Fluorescent Protein for Label-Free Detection of Protein Kinase Activity. <i>Analytical Chemistry</i> , 2015, 87, 6311-6318. | 3.2 | 27 |
| 50 | Resurfaced Fluorescent Protein as a Sensing Platform for Label-Free Detection of Copper(II) Ion and Acetylcholinesterase Activity. <i>Analytical Chemistry</i> , 2015, 87, 1974-1980. | 3.2 | 102 |
| 51 | Automatic and Integrated Micro-Enzyme Assay (AI ² /4EA) Platform for Highly Sensitive Thrombin Analysis via an Engineered Fluorescence Protein-Functionalized Monolithic Capillary Column. <i>Analytical Chemistry</i> , 2015, 87, 4552-4559. | 3.2 | 22 |
| 52 | Label-free fluorescence assay for thrombin based on unmodified quantum dots. <i>Biosensors and Bioelectronics</i> , 2014, 54, 42-47. | 5.3 | 34 |
| 53 | A Mix-and-Read Fluorescence Strategy for the Switch-On Probing of Kinase Activity Based on an Aptamer/Peptide/Graphene Oxide Platform. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2560-2567. | 1.7 | 5 |
| 54 | A Supercharged Fluorescent Protein as a Versatile Probe for Homogeneous DNA Detection and Methylation Analysis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8358-8362. | 7.2 | 36 |

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|----|--|-----|-----------|
| 55 | Fluorescent detection of protein kinase based on positively charged gold nanoparticles. <i>Talanta</i> , 2014, 128, 360-365. | 2.9 | 19 |
| 56 | Label-free fluorescent detection of thrombin activity based on a recombinant enhanced green fluorescence protein and nickel ions immobilized nitrilotriacetic acid-coated magnetic nanoparticles. <i>Talanta</i> , 2013, 116, 468-473. | 2.9 | 13 |
| 57 | Fluorescent detection of protein kinase based on zirconium ions-immobilized magnetic nanoparticles. <i>Analytica Chimica Acta</i> , 2013, 780, 89-94. | 2.6 | 33 |
| 58 | Analysis of copper nanoparticles toxicity based on a stress-responsive bacterial biosensor array. <i>Nanoscale</i> , 2013, 5, 653-662. | 2.8 | 61 |
| 59 | Immune-independent and label-free fluorescent assay for Cystatin C detection based on protein-stabilized Au nanoclusters. <i>Biosensors and Bioelectronics</i> , 2013, 41, 256-261. | 5.3 | 79 |
| 60 | Development of a novel antioxidant assay technique based on G-quadruplex DNAzyme. <i>Biosensors and Bioelectronics</i> , 2010, 26, 523-529. | 5.3 | 27 |
| 61 | Impedimetric Aptasensor with Femtomolar Sensitivity Based on the Enlargement of Surface-Charged Gold Nanoparticles. <i>Analytical Chemistry</i> , 2009, 81, 739-745. | 3.2 | 162 |