

Chun-Hua Lu

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

6,508
citations

159358

30
h-index

123241

61
g-index

62
all docs

62
docs citations

62
times ranked

8634
citing authors

#	ARTICLE	IF	CITATIONS
1	A Graphene Platform for Sensing Biomolecules. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4785-4787.	7.2	1,801
2	From Cascaded Catalytic Nucleic Acids to Enzyme-like DNA Nanostructures: Controlling Reactivity, Sensing, Logic Operations, and Assembly of Complex Structures. <i>Chemical Reviews</i> , 2014, 114, 2881-2941.	23.0	573
3	Functional nucleic acid-based hydrogels for bioanalytical and biomedical applications. <i>Chemical Society Reviews</i> , 2016, 45, 1410-1431.	18.7	416
4	Using graphene to protect DNA from cleavage during cellular delivery. <i>Chemical Communications</i> , 2010, 46, 3116.	2.2	339
5	Mussel-inspired molecularly imprinted polymer coating superparamagnetic nanoparticles for protein recognition. <i>Journal of Materials Chemistry</i> , 2010, 20, 880-883.	6.7	247
6	Amplified Aptamer-Based Assay through Catalytic Recycling of the Analyte. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8454-8457.	7.2	212
7	Sensing HIV related protein using epitope imprinted hydrophilic polymer coated quartz crystal microbalance. <i>Biosensors and Bioelectronics</i> , 2012, 31, 439-444.	5.3	212
8	Graphitic Carbon Nitride Materials: Sensing, Imaging and Therapy. <i>Small</i> , 2016, 12, 5376-5393.	5.2	195
9	Surface-Imprinted Core-Shell Nanoparticles for Sorbent Assays. <i>Analytical Chemistry</i> , 2007, 79, 5457-5461.	3.2	194
10	Increasing the Sensitivity and Single-Base Mismatch Selectivity of the Molecular Beacon Using Graphene Oxide as the Nanoquencher. <i>Chemistry - A European Journal</i> , 2010, 16, 4889-4894.	1.7	181
11	Bioinspired Mineral-Organic Bone Adhesives for Stable Fracture Fixation and Accelerated Bone Regeneration. <i>Advanced Functional Materials</i> , 2020, 30, 1908381.	7.8	130
12	A black phosphorus nanosheet-based siRNA delivery system for synergistic photothermal and gene therapy. <i>Chemical Communications</i> , 2018, 54, 3142-3145.	2.2	93
13	General Approach for Monitoring Peptide-Protein Interactions Based on Graphene-Peptide Complex. <i>Analytical Chemistry</i> , 2011, 83, 7276-7282.	3.2	92
14	Copper Manganese Sulfide Nanoplates: A New Two-Dimensional Theranostic Nanoplatfor for MRI/MSOT Dual-Modal Imaging-Guided Photothermal Therapy in the Second Near-Infrared Window. <i>Theranostics</i> , 2017, 7, 4763-4776.	4.6	89
15	Nucleic Acids Analysis. <i>Science China Chemistry</i> , 2021, 64, 171-203.	4.2	88
16	Biomimetic Design of Hollow Flower-Like g-C ₃ N ₄ @PDA Organic Framework Nanospheres for Realizing an Efficient Photoreactivity. <i>Small</i> , 2019, 15, e1900011.	5.2	80
17	DNA Octahedron-Based Fluorescence Nanoprobe for Dual Tumor-Related mRNAs Detection and Imaging. <i>Analytical Chemistry</i> , 2018, 90, 12059-12066.	3.2	72
18	Bifunctional superparamagnetic surface molecularly imprinted polymer core-shell nanoparticles. <i>Journal of Materials Chemistry</i> , 2009, 19, 1077.	6.7	70

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19	Photogenerated Holes Mediated Nitric Oxide Production for Hypoxic Tumor Treatment. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7046-7050.	7.2	61
20	Ultrasensitive detection of Cu ²⁺ with the naked eye and application in immunoassays. <i>NPG Asia Materials</i> , 2012, 4, e10-e10.	3.8	59
21	A colorimetric assay for measuring iodide using Au@Ag core-shell nanoparticles coupled with Cu ²⁺ . <i>Analytica Chimica Acta</i> , 2015, 891, 269-276.	2.6	46
22	High photoluminescent carbon based dots with tunable emission color from orange to green. <i>Nanoscale</i> , 2017, 9, 1028-1032.	2.8	43
23	Engineering of tungsten carbide nanoparticles for imaging-guided single 1,064 nm laser-activated dual-type photodynamic and photothermal therapy of cancer. <i>Nano Research</i> , 2018, 11, 4859-4873.	5.8	42
24	Switch-conversional ratiometric fluorescence biosensor for miRNA detection. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112104.	5.3	40
25	Nucleic acid-based molecular computation heads towards cellular applications. <i>Chemical Society Reviews</i> , 2021, 50, 12551-12575.	18.7	38
26	Self-Assembled mRNA-Responsive DNA Nanosphere for Bioimaging and Cancer Therapy in Drug-Resistant Cells. <i>Analytical Chemistry</i> , 2020, 92, 11779-11785.	3.2	35
27	DNA-mediated reversible capture and release of circulating tumor cells with a multivalent dual-specific aptamer coating network. <i>Chemical Communications</i> , 2019, 55, 5387-5390.	2.2	34
28	Functional Self-Assembled DNA Nanohydrogels for Specific Telomerase Activity Imaging and Telomerase-Activated Antitumor Gene Therapy. <i>Analytical Chemistry</i> , 2020, 92, 15179-15186.	3.2	33
29	Simultaneous voltammetry detection of dopamine and uric acid in human serum and urine with a poly(procaterol hydrochloride) modified glassy carbon electrode. <i>Talanta</i> , 2018, 185, 203-212.	2.9	32
30	Reducing PD-L1 expression with a self-assembled nanodrug: an alternative to PD-L1 antibody for enhanced chemo-immunotherapy. <i>Theranostics</i> , 2021, 11, 1970-1981.	4.6	32
31	Active Self-Assembly of Train-Shaped DNA Nanostructures via Catalytic Hairpin Assembly Reactions. <i>Small</i> , 2019, 15, e1901795.	5.2	31
32	Multiplex detection of nucleases by a graphene-based platform. <i>Journal of Materials Chemistry</i> , 2011, 21, 10915.	6.7	27
33	Light-Controlled, Toehold-Mediated Logic Circuit for Assembly of DNA Tiles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6336-6342.	4.0	22
34	Target-directed enzyme-free dual-amplification DNA circuit for rapid signal amplification. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10770-10775.	2.9	21
35	Localized DNA catalytic hairpin assembly reaction on DNA origami for tumor-associated microRNA detection and imaging in live cells. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130195.	4.0	21
36	An electrochemical sensor based on enzyme-free recycling amplification for sensitive and specific detection of miRNAs from cancer cells. <i>Analyst</i> , The, 2020, 145, 3353-3358.	1.7	20

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37	Accelerated DNA tetrahedron-based molecular beacon for efficient microRNA imaging in living cells. <i>Chemical Communications</i> , 2021, 57, 3251-3254.	2.2	19
38	Self-Assembled ATP-Responsive DNA Nanohydrogel for Specifically Activated Fluorescence Imaging and Chemotherapy in Cancer Cells. <i>Analytical Chemistry</i> , 2022, 94, 10221-10226.	3.2	17
39	Electrochemical investigation and determination of procaterol hydrochloride on poly(glutamic) Tj ETQq1 1 0.784314 rgBT /Overlock I carbon electrode. <i>Talanta</i> , 2017, 174, 436-443.	2.9	14
40	Carbon-based dots for the electrochemical production of hydrogen peroxide. <i>Chemical Communications</i> , 2020, 56, 7609-7612.	2.2	14
41	H ₂ O ₂ -Responsive Nanogel for Enhancing Chemodynamic Therapy. <i>ChemNanoMat</i> , 2020, 6, 1054-1058.	1.5	14
42	Multistage Cooperative Nanodrug Combined with PD-L1 for Enhancing Antitumor Chemoimmunotherapy. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101199.	3.9	14
43	Target-Activated, Light-Actuated Three-Dimensional DNA Walker Nanomachine for Amplified miRNA Detection. <i>Langmuir</i> , 2022, 38, 1151-1157.	1.6	14
44	Spatial Regulation of Biomolecular Interactions with a Switchable Trident-Shaped DNA Nanoactuator. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32579-32587.	4.0	13
45	Target-driven assembly of DNAzyme probes for simultaneous electrochemical detection of multiplex microRNAs. <i>Analyst</i> , The, 2022, 147, 262-267.	1.7	13
46	siRNA-Based Carrier-Free System for Synergistic Chemo/Chemodynamic/RNAi Therapy of Drug-Resistant Tumors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 361-372.	4.0	13
47	Rational design of a prodrug to inhibit self-inflammation for cancer treatment. <i>Nanoscale</i> , 2021, 13, 5817-5825.	2.8	12
48	Ultrasensitive electrochemical detection of microRNA based on in-situ catalytic hairpin assembly actuated DNA tetrahedral interfacial probes. <i>Talanta</i> , 2021, 233, 122600.	2.9	11
49	A Cyanine-Mediated Self-Assembly System for the Construction of a Two-in-One Nanodrug. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21226-21230.	7.2	10
50	An aptamer-tethered DNA origami amplifier for sensitive and accurate imaging of intracellular microRNA. <i>Nanoscale</i> , 2022, 14, 1327-1332.	2.8	10
51	Fullerene-Structural Carbon-Based Dots from C ₆₀ Molecules and their Optical Properties. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 916-923.	1.2	9
52	Construction of a Target-Initiated, Enzyme-Free DNA Cascade Circuit for Amplified Detection of Mercury. <i>ACS Applied Bio Materials</i> , 2020, 3, 1853-1857.	2.3	9
53	Biodegradable Black-Phosphorus-Nanosheet-Based Nanoagent for Enhanced Chemo-Photothermal Therapy. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 2000243.	1.2	8
54	Multifunctional Carbon Monoxide Prodrug-Loaded Nanoplatfoms for Effective Photoacoustic Imaging-Guided Photothermal/Gas Synergistic Therapy. <i>ACS Applied Bio Materials</i> , 2021, 4, 4557-4564.	2.3	8

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55	Dual inhibition of glycolysis and oxidative phosphorylation by aptamer-based artificial enzyme for synergistic cancer therapy. <i>Nano Research</i> , 2022, 15, 6278-6287.	5.8	8
56	Sensitive determination of bromhexine hydrochloride based on its quenching effect on luminol/H ₂ O ₂ electrochemiluminescence system. <i>Luminescence</i> , 2018, 33, 698-703.	1.5	7
57	Rational design of a hollow multilayer heterogeneous organic framework for photochemical applications. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2646-2654.	3.2	6
58	Photogenerated Holes Mediated Nitric Oxide Production for Hypoxic Tumor Treatment. <i>Angewandte Chemie</i> , 2021, 133, 7122-7126.	1.6	3
59	A procedurally activatable nanoplatfom for chemo/chemodynamic synergistic therapy. <i>Biomaterials Science</i> , 2022, 10, 2673-2680.	2.6	3
60	A Cyanine-Mediated Self-Assembly System for the Construction of a Two-in-One Nanodrug. <i>Angewandte Chemie</i> , 2021, 133, 21396-21400.	1.6	1