

Di Li

List of Publications by Year in descending order

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111
papers

12,738
citations

50276

46
h-index

24258

110
g-index

118
all docs

118
docs citations

118
times ranked

14888
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-Based Antibacterial Paper. ACS Nano, 2010, 4, 4317-4323.	14.6	1,771
2	A Graphene Nanoprobe for Rapid, Sensitive, and Multicolor Fluorescent DNA Analysis. Advanced Functional Materials, 2010, 20, 453-459.	14.9	1,310
3	Target-Responsive Structural Switching for Nucleic Acid-Based Sensors. Accounts of Chemical Research, 2010, 43, 631-641.	15.6	704
4	Self-Assembled Multivalent DNA Nanostructures for Noninvasive Intracellular Delivery of Immunostimulatory CpG Oligonucleotides. ACS Nano, 2011, 5, 8783-8789.	14.6	656
5	Optical Analysis of Hg ²⁺ Ions by Oligonucleotide-Gold Nanoparticle Hybrids and DNA-Based Machines. Angewandte Chemie - International Edition, 2008, 47, 3927-3931.	13.8	633
6	Self-Catalyzed, Self-Limiting Growth of Glucose Oxidase-Mimicking Gold Nanoparticles. ACS Nano, 2010, 4, 7451-7458.	14.6	534
7	A graphene-based fluorescent nanoprobe for silver(i) ions detection by using graphene oxide and a silver-specific oligonucleotide. Chemical Communications, 2010, 46, 2596.	4.1	455
8	Highly Sensitive Electrochemical Sensor for Mercury(II) Ions by Using a Mercury-Specific Oligonucleotide Probe and Gold Nanoparticle-Based Amplification. Analytical Chemistry, 2009, 81, 7660-7666.	6.5	426
9	Amplified Analysis of Low-Molecular-Weight Substrates or Proteins by the Self-Assembly of DNAzyme-Aptamer Conjugates. Journal of the American Chemical Society, 2007, 129, 5804-5805.	13.7	323
10	Catalytic Gold Nanoparticles for Nanoplasmonic Detection of DNA Hybridization. Angewandte Chemie - International Edition, 2011, 50, 11994-11998.	13.8	306
11	Spotlighting of Cocaine by an Autonomous Aptamer-Based Machine. Journal of the American Chemical Society, 2007, 129, 3814-3815.	13.7	271
12	Single-Step Rapid Assembly of DNA Origami Nanostructures for Addressable Nanoscale Bioreactors. Journal of the American Chemical Society, 2013, 135, 696-702.	13.7	242
13	Long-Term Antimicrobial Effect of Silicon Nanowires Decorated with Silver Nanoparticles. Advanced Materials, 2010, 22, 5463-5467.	21.0	241
14	Graphene on Au(111): A Highly Conductive Material with Excellent Adsorption Properties for High-Resolution Bio/Nanodetection and Identification. ChemPhysChem, 2010, 11, 585-589.	2.1	222
15	A graphene-enhanced molecular beacon for homogeneous DNA detection. Nanoscale, 2010, 2, 1021.	5.6	219
16	Graphene Oxide-Facilitated Electron Transfer of Metalloproteins at Electrode Surfaces. Langmuir, 2010, 26, 1936-1939.	3.5	215
17	Highly Photoluminescent CdTe/Poly(N-isopropylacrylamide) Temperature-Sensitive Gels. Advanced Materials, 2005, 17, 163-166.	21.0	201
18	DNAzyme-Based Rolling-Circle Amplification DNA Machine for Ultrasensitive Analysis of MicroRNA in <i>Drosophila</i> Larva. Analytical Chemistry, 2012, 84, 7664-7669.	6.5	173

#	ARTICLE	IF	CITATIONS
19	Metal ion-modulated graphene-DNAzyme interactions: design of a nanoprobe for fluorescent detection of lead(II) ions with high sensitivity, selectivity and tunable dynamic range. <i>Chemical Communications</i> , 2011, 47, 6278.	4.1	166
20	Adenosine detection by using gold nanoparticles and designed aptamer sequences. <i>Analyst</i> , 2009, 134, 1355.	3.5	157
21	Nanoplasmonic Imaging of Latent Fingerprints and Identification of Cocaine. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11542-11545.	13.8	150
22	Design of a gold nanoprobe for rapid and portable mercury detection with the naked eye. <i>Chemical Communications</i> , 2008, , 4885.	4.1	143
23	Design of a carbon nanotube/magnetic nanoparticle-based peroxidase-like nanocomplex and its application for highly efficient catalytic oxidation of phenols. <i>Nano Research</i> , 2009, 2, 617-623.	10.4	133
24	DNA-Directed Assembly of Gold Nanohalo for Quantitative Plasmonic Imaging of Single-Particle Catalysis. <i>Journal of the American Chemical Society</i> , 2015, 137, 4292-4295.	13.7	125
25	Functionalization of single-walled carbon nanotubes with Prussian blue. <i>Electrochemistry Communications</i> , 2004, 6, 1180-1184.	4.7	122
26	Mixed ligand system of cysteine and thioglycolic acid assisting in the synthesis of highly luminescent water-soluble CdTe nanorods. Electronic supplementary information (ESI) available: instrumentation, discussion of dipole attraction, XRD pattern of CdTe nanorods and TEM image of CdTe nanowires. See http://www.rsc.org/suppdata/cc/b4/b405623j/ . <i>Chemical Communications</i> , 2004, , 1740.	4.1	109
27	Parallel Analysis of Two Analytes in Solutions or on Surfaces by Using a Bifunctional Aptamer: Applications for Biosensing and Logic Gate Operations. <i>ChemBioChem</i> , 2008, 9, 232-239.	2.6	109
28	Amplified electrochemical detection of DNA through the aggregation of Au nanoparticles on electrodes and the incorporation of methylene blue into the DNA-crosslinked structure. <i>Chemical Communications</i> , 2007, , 3544.	4.1	106
29	Proteins modified with DNAzymes or aptamers act as biosensors or biosensor labels. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2570-2576.	10.1	105
30	Real-Time Imaging of Single-Molecule Enzyme Cascade Using a DNA Origami Raft. <i>Journal of the American Chemical Society</i> , 2017, 139, 17525-17532.	13.7	100
31	Catalysis-Driven Self-Assembly of Janus Plasmonic Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 515-518.	13.8	93
32	Oriented nano-structured hydroxyapatite from the template. <i>Chemical Physics Letters</i> , 2003, 376, 493-497.	2.6	88
33	An Electrochemically Actuated Reversible DNA Switch. <i>Nano Letters</i> , 2010, 10, 1393-1397.	9.1	78
34	β -Cyclodextrin controlled assembling nanostructures from gold nanoparticles to gold nanowires. <i>Chemical Physics Letters</i> , 2004, 389, 14-18.	2.6	69
35	Inhibition of the In Vitro Replication of DNA by an Aptamer-Protein Complex in an Autonomous DNA Machine. <i>Chemistry - A European Journal</i> , 2009, 15, 11898-11903.	3.3	68
36	Guiding protein delivery into live cells using DNA-programmed membrane fusion. <i>Chemical Science</i> , 2018, 9, 5967-5975.	7.4	66

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37	A highly sensitive chemiluminescence sensor for detecting mercury (II) ions: a combination of Exonuclease III-aided signal amplification and graphene oxide-assisted background reduction. <i>Science China Chemistry</i> , 2015, 58, 514-518.	8.2	63
38	Pattern Recognition Analysis of Proteins Using DNA-Decorated Catalytic Gold Nanoparticles. <i>Small</i> , 2013, 9, 2844-2849.	10.0	59
39	Multi-functional crosslinked Au nanoaggregates for the amplified optical DNA detection. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3311-3315.	10.1	54
40	A nano- and micro- integrated protein chip based on quantum dot probes and a microfluidic network. <i>Nano Research</i> , 2008, 1, 490-496.	10.4	52
41	Water-soluble myofibrillar protein-pectin complex for enhanced physical stability near the isoelectric point: Fabrication, rheology and thermal property. <i>International Journal of Biological Macromolecules</i> , 2020, 142, 615-623.	7.5	52
42	Luminescent CdTe quantum dots and nanorods as metal ion probes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 257-258, 267-271.	4.7	51
43	Nanoplasmonic detection of adenosine triphosphate by aptamer regulated self-catalytic growth of single gold nanoparticles. <i>Chemical Communications</i> , 2012, 48, 9574.	4.1	50
44	Nanoplasmonic Imaging of Latent Fingerprints with Explosive RDX Residues. <i>Analytical Chemistry</i> , 2015, 87, 9403-9407.	6.5	49
45	Probing of enzyme reactions by the biocatalyst-induced association or dissociation of redox labels linked to monolayer-functionalized electrodes. <i>Chemical Communications</i> , 2006, , 5027.	4.1	46
46	Biomolecular sensing via coupling DNA-based recognition with gold nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 203001.	2.8	44
47	A silicon nanowire-based electrochemical glucose biosensor with high electrocatalytic activity and sensitivity. <i>Nanoscale</i> , 2010, 2, 1704.	5.6	42
48	Temperature dependant self-assembly of surfactant Brij 76 in room temperature ionic liquid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 273, 24-28.	4.7	41
49	Single-Molecular Catalysis Identifying Activation Energy of the Intermediate Product and Rate-Limiting Step in Plasmonic Photocatalysis. <i>Nano Letters</i> , 2020, 20, 2507-2513.	9.1	40
50	Sequence-specific DNA detection by using biocatalyzed electrochemiluminescence and non-fouling surfaces. <i>Biosensors and Bioelectronics</i> , 2009, 25, 368-372.	10.1	39
51	Gating of Redox Currents at Gold Nanoelectrodes via DNA Hybridization. <i>Advanced Materials</i> , 2010, 22, 2148-2150.	21.0	39
52	Photoactive Nanocarriers for Controlled Delivery. <i>Advanced Functional Materials</i> , 2020, 30, 1903896.	14.9	38
53	A Wide-Bandgap Semiconducting Polymer for Ultraviolet and Blue Light Emitting Diodes. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 2274-2280.	2.2	37
54	Amperometric Sensor for Hydroxylamine Based on Hybrid Nickel-Cobalt Hexacyanoferrate Modified Electrode. <i>Electroanalysis</i> , 2005, 17, 2190-2194.	2.9	37

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55	Following protein kinase activity by electrochemical means and contact angle measurements. <i>Chemical Communications</i> , 2008, , 2376.	4.1	35
56	Unraveling the Role of Hydrogen Peroxide in α -Synuclein Aggregation Using an Ultrasensitive Nanoplasmonic Probe. <i>Analytical Chemistry</i> , 2015, 87, 1968-1973.	6.5	35
57	Reactivating Catalytic Surface: Insights into the Role of Hot Holes in Plasmonic Catalysis. <i>Small</i> , 2018, 14, e1703510.	10.0	35
58	Self-assembly of inorganic nanoparticles mediated by host-guest interactions. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 35, 59-67.	7.4	30
59	A methylation-stimulated DNA machine: an autonomous isothermal route to methyltransferase activity and inhibition analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3459-3464.	3.7	28
60	Nanoplasmonic Biological Sensing and Imaging. <i>Acta Chimica Sinica</i> , 2017, 75, 1036.	1.4	28
61	Impact of gum Arabic on the partition and stability of resveratrol in sunflower oil emulsions stabilized by whey protein isolate. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 749-755.	5.0	27
62	Self-assembly of 4-ferrocene thiophenol capped electroactive gold nanoparticles onto gold electrode. <i>Surface Science</i> , 2003, 522, 105-111.	1.9	24
63	A Conjugated Polymer-Based Electrochemical DNA Sensor: Design and Application of a Multi-Functional and Water-Soluble Conjugated Polymer. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1489-1494.	3.9	24
64	A quartz crystal microbalance-based molecular ruler for biopolymers. <i>Chemical Communications</i> , 2010, 46, 949-951.	4.1	24
65	Synthesis, characterization, electrochemistry and optical properties of a novel phenanthrenequinone- <i>di</i> alkylfluorene conjugated copolymer. <i>Polymer International</i> , 2007, 56, 1507-1513.	3.1	23
66	Catalysis-Driven Self-Thermophoresis of Janus Plasmonic Nanomotors. <i>Angewandte Chemie</i> , 2017, 129, 530-533.	2.0	23
67	Magnetic nanochains-based dynamic ELISA for rapid and ultrasensitive detection of acute myocardial infarction biomarkers. <i>Analytica Chimica Acta</i> , 2021, 1166, 338567.	5.4	22
68	Electroactive gold nanoparticles protected by 4-ferrocene thiophenol monolayer. <i>Journal of Colloid and Interface Science</i> , 2003, 264, 109-113.	9.4	21
69	Optical monitoring of faradaic reaction using single plasmon-resonant nanorods functionalized with graphene. <i>Chemical Communications</i> , 2015, 51, 3223-3226.	4.1	21
70	Gold nanoparticle-based sensing strategies for biomolecular detection. <i>Pure and Applied Chemistry</i> , 2010, 82, 81-89.	1.9	19
71	Single-Molecule Studies of Allosteric Inhibition of Individual Enzyme on a DNA Origami Reactor. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6786-6794.	4.6	19
72	Intelligent Probabilistic System for Digital Tracing Cellular Origin of Individual Clinical Extracellular Vesicles. <i>Analytical Chemistry</i> , 2021, 93, 10343-10350.	6.5	19

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73	Comparative Studies on Electrocatalytic Activities of Chemically Reduced Graphene Oxide and Electrochemically Reduced Graphene Oxide Noncovalently Functionalized with Poly(methylene blue). <i>Electroanalysis</i> , 2010, 22, 2862-2870.	2.9	18
74	Unique structure and photoluminescence of Au/CdTe nanostructure materialsElectronic supplementary information (ESI) available: photoluminescence and UV-Vis spectra of Au nanoparticles, and XRD spectra of CdTe nanocrystals and Au/CdTe. See http://www.rsc.org/suppdata/cc/b3/b314664b/ . <i>Chemical Communications</i> , 2004, , 982.	4.1	17
75	DNA nanotweezers for stabilizing and dynamically lighting up a lipid raft on living cell membranes and the activation of T cells. <i>Chemical Science</i> , 2020, 11, 1581-1586.	7.4	16
76	Direct conversion of N ₂ and O ₂ : status, challenge and perspective. <i>National Science Review</i> , 2022, 9, .	9.5	16
77	Encoded and Enzyme-Activated Nanolithography of Gold and Magnetic Nanoparticles on Silicon. <i>Langmuir</i> , 2007, 23, 2293-2296.	3.5	15
78	Visualizing dopamine released from living cells using a nanoplasmonic probe. <i>Nanoscale</i> , 2015, 7, 15070-15074.	5.6	15
79	Polydopamine-mediated synthesis of core@shell gold@calcium phosphate nanoparticles for enzyme immobilization. <i>Biomaterials Science</i> , 2019, 7, 2841-2849.	5.4	15
80	Preparation, characterization and quantized capacitance of 3-mercapto-1,2-propanediol monolayer protected gold nanoparticles. <i>Chemical Physics Letters</i> , 2003, 372, 668-673.	2.6	13
81	Semipermeable membrane embodying noble metal nanoparticles and its electrochemical behaviors. <i>Journal of Electroanalytical Chemistry</i> , 2005, 579, 277-282.	3.8	12
82	Fractal-type dendrons-capped gold clusters. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 257-258, 255-259.	4.7	12
83	Preparation of CdTe nanocrystals and CdTe/SiO ₂ nanocomposites in glycol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 257-258, 329-332.	4.7	12
84	Detection of B-type natriuretic peptide by establishing a low-cost and replicable fluorescence resonance energy transfer platform. <i>Mikrochimica Acta</i> , 2020, 187, 331.	5.0	12
85	Surface effects of monolayer-protected gold nanoparticles on the redox reactions between ferricyanide and thiosulfate. <i>Science in China Series B: Chemistry</i> , 2005, 48, 424.	0.8	11
86	Alleviated Inhibition of Single Enzyme in Confined and Crowded Environment. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 82-89.	4.6	11
87	Engineering CrtW and CrtZ for improving biosynthesis of astaxanthin in <i>Escherichia coli</i> . <i>Chinese Journal of Natural Medicines</i> , 2020, 18, 666-676.	1.3	11
88	Enhancing cell membrane phase separation for inhibiting cancer metastasis with a stimuli-responsive DNA nanodevice. <i>Chemical Science</i> , 2022, 13, 6303-6308.	7.4	10
89	In-situ plasmonic tracking oxygen evolution reveals multistage oxygen diffusion and accumulating inhibition. <i>Nature Communications</i> , 2021, 12, 2164.	12.8	9
90	Switchable charge transport path via a potassium ions promoted conformational change of G-quadruplex probe monolayer. <i>Electrochemistry Communications</i> , 2008, 10, 1258-1260.	4.7	8

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91	Application Progress of DNA Nanostructures in Drug Delivery and Smart Drug Carriers. Chinese Journal of Analytical Chemistry, 2017, 45, 1078-1087.	1.7	8
92	Single Particle Hopping as an Indicator for Evaluating Electrocatalysts. Nano Letters, 2022, 22, 5495-5502.	9.1	8
93	Influence of configuration of carboxylic acid capping ligands on the salt-induced aggregation of gold clusters. Journal of Colloid and Interface Science, 2005, 283, 440-445.	9.4	7
94	Multienzyme nanoassemblies: from rational design to biomedical applications. Biomaterials Science, 2021, 9, 7323-7342.	5.4	7
95	Electrochemical study of 4-ferrocene thiophenol monolayers assembled on gold nanoparticles. Microelectronic Engineering, 2003, 66, 91-94.	2.4	6
96	Optical approaches in study of nanocatalysis with single-molecule and single-particle resolution. Frontiers of Optoelectronics, 2015, 8, 379-393.	3.7	6
97	Progresses of Single Molecular Fluorescence Resonance Energy Transfer in Studying Biomacromolecule Dynamic Process. Chinese Journal of Analytical Chemistry, 2018, 46, 803-813.	1.7	6
98	Triphenylmethanethiol: a novel rigid capping agent for gold nanoclusters. New Journal of Chemistry, 2003, 27, 498-501.	2.8	4
99	The enzyme-amplified amperometric DNA sensor using an electrodeposited polymer redox mediator. Science in China Series B: Chemistry, 2009, 52, 746-750.	0.8	4
100	Universal optical assays based on multi-component nanoprobe for genomic deoxyribonucleic acid and proteins. Analytica Chimica Acta, 2011, 702, 114-119.	5.4	4
101	Recent Progresses in Molecule Motors Driven by Enzymatic Reactions. Chinese Journal of Analytical Chemistry, 2016, 44, 1133-1139.	1.7	4
102	Precise regulating T cell activation signaling with spatial controllable positioning of receptors on DNA origami. Chinese Journal of Analytical Chemistry, 2022, 50, 100091.	1.7	3
103	Inside Cover: Graphene on Au(111): A Highly Conductive Material with Excellent Adsorption Properties for High-Resolution Bio/Nanodetection and Identification (ChemPhysChem 3/2010). ChemPhysChem, 2010, 11, 530-530.	2.1	2
104	Optical Detection of Non-amplified Genomic DNA. Soft and Biological Matter, 2012, , 153-183.	0.3	2
105	DNA-Mediated Membrane Fusion and Its Biological Applications: Sensing, Reaction Control and Drug Delivery. Analysis & Sensing, 2022, 2, .	2.0	2
106	Research Progresses in Single Molecule Enzymology. Chinese Journal of Analytical Chemistry, 2016, 44, 1437-1446.	1.7	1
107	Progress in Membrane Fusion and Its Application in Drug Delivery. Chinese Journal of Analytical Chemistry, 2019, 47, 1871-1877.	1.7	1
108	Mechanistic Aspects of Monomer, Polymer Formation, and Synthesis of PQ-Alt-Dialkyl-fluorene Conjugated Copolymer. Chemical Research in Chinese Universities, 2008, 24, 110-115.	2.6	0

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109	Nucleic Acid Enzyme-Based DNA Nanomachine for Biosensing. , 2013, , 307-320.		0
110	Asymmetrical DNA engineering of cell membrane via membrane fusion. Chinese Journal of Analytical Chemistry, 2022, 50, 100053.	1.7	0
111	Controlled Delivery. , 2022, , 525-553.		0