

Xiaogang Qu

List of Publications by Year in descending order

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Version: 2024-02-01

390
papers

42,836
citations

1704

104
h-index

2828

191
g-index

401
all docs

401
docs citations

401
times ranked

33312
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanozymes: Classification, Catalytic Mechanisms, Activity Regulation, and Applications. <i>Chemical Reviews</i> , 2019, 119, 4357-4412.	47.7	1,955
2	Graphene Oxide: Intrinsic Peroxidase Catalytic Activity and Its Application to Glucose Detection. <i>Advanced Materials</i> , 2010, 22, 2206-2210.	21.0	1,844
3	Catalytically Active Nanomaterials: A Promising Candidate for Artificial Enzymes. <i>Accounts of Chemical Research</i> , 2014, 47, 1097-1105.	15.6	1,020
4	Cancer biomarker detection: recent achievements and challenges. <i>Chemical Society Reviews</i> , 2015, 44, 2963-2997.	38.1	905
5	Cerium oxide nanoparticle: a remarkably versatile rare earth nanomaterial for biological applications. <i>NPG Asia Materials</i> , 2014, 6, e90-e90.	7.9	803
6	Nanozyme Decorated Metal-Organic Frameworks for Enhanced Photodynamic Therapy. <i>ACS Nano</i> , 2018, 12, 651-661.	14.6	670
7	Recent advances in graphene quantum dots for sensing. <i>Materials Today</i> , 2013, 16, 433-442.	14.2	659
8	Graphene Quantum Dots-Band-Aids Used for Wound Disinfection. <i>ACS Nano</i> , 2014, 8, 6202-6210.	14.6	628
9	Metal nanoclusters: novel probes for diagnostic and therapeutic applications. <i>Chemical Society Reviews</i> , 2015, 44, 8636-8663.	38.1	621
10	Microwave assisted one-step green synthesis of cell-permeable multicolor photoluminescent carbon dots without surface passivation reagents. <i>Journal of Materials Chemistry</i> , 2011, 21, 2445.	6.7	608
11	Colorimetric Biosensing Using Smart Materials. <i>Advanced Materials</i> , 2011, 23, 4215-4236.	21.0	594
12	Bifunctionalized Mesoporous Silica-Supported Gold Nanoparticles: Intrinsic Oxidase and Peroxidase Catalytic Activities for Antibacterial Applications. <i>Advanced Materials</i> , 2015, 27, 1097-1104.	21.0	511
13	Label-Free Colorimetric Detection of Single Nucleotide Polymorphism by Using Single-Walled Carbon Nanotube Intrinsic Peroxidase-Like Activity. <i>Chemistry - A European Journal</i> , 2010, 16, 3617-3621.	3.3	484
14	Using Graphene Oxide High Near-Infrared Absorbance for Photothermal Treatment of Alzheimer's Disease. <i>Advanced Materials</i> , 2012, 24, 1722-1728.	21.0	477
15	Biomimetic nanoflowers by self-assembly of nanozymes to induce intracellular oxidative damage against hypoxic tumors. <i>Nature Communications</i> , 2018, 9, 3334.	12.8	464
16	Incorporating Graphene Oxide and Gold Nanoclusters: A Synergistic Catalyst with Surprisingly High Peroxidase-Like Activity Over a Broad pH Range and its Application for Cancer Cell Detection. <i>Advanced Materials</i> , 2013, 25, 2594-2599.	21.0	441
17	Carbon Nanozymes: Enzymatic Properties, Catalytic Mechanism, and Applications. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9224-9237.	13.8	424
18	Antibacterial applications of graphene-based nanomaterials: Recent achievements and challenges. <i>Advanced Drug Delivery Reviews</i> , 2016, 105, 176-189.	13.7	420

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19	Bioinspired Construction of a Nanozyme-Based H ₂ O ₂ Homeostasis Disruptor for Intensive Chemodynamic Therapy. <i>Journal of the American Chemical Society</i> , 2020, 142, 5177-5183.	13.7	409
20	Copper(II)-Graphitic Carbon Nitride Triggered Synergy: Improved ROS Generation and Reduced Glutathione Levels for Enhanced Photodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11467-11471.	13.8	396
21	Near-Infrared Light-Triggered, Targeted Drug Delivery to Cancer Cells by Aptamer Gated Nanovehicles. <i>Advanced Materials</i> , 2012, 24, 2890-2895.	21.0	388
22	Deciphering a Nanocarbon-Based Artificial Peroxidase: Chemical Identification of the Catalytically Active and Substrate-Binding Sites on Graphene Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7176-7180.	13.8	380
23	Nano-Gold as Artificial Enzymes: Hidden Talents. <i>Advanced Materials</i> , 2014, 26, 4200-4217.	21.0	378
24	Two-Dimensional Metal-Organic Framework/Enzyme Hybrid Nanocatalyst as a Benign and Self-Activated Cascade Reagent for <i>in Vivo</i> Wound Healing. <i>ACS Nano</i> , 2019, 13, 5222-5230.	14.6	356
25	Enzyme Mimicry for Combating Bacteria and Biofilms. <i>Accounts of Chemical Research</i> , 2018, 51, 789-799.	15.6	347
26	Erythrocyte Membrane Cloaked Metal-Organic Framework Nanoparticle as Biomimetic Nanoreactor for Starvation-Activated Colon Cancer Therapy. <i>ACS Nano</i> , 2018, 12, 10201-10211.	14.6	332
27	Nanozymes: A clear definition with fuzzy edges. <i>Nano Today</i> , 2021, 40, 101269.	11.9	332
28	Self-Assembly of Multi-nanozymes to Mimic an Intracellular Antioxidant Defense System. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6646-6650.	13.8	330
29	Recent advances in bioapplications of C-dots. <i>Carbon</i> , 2015, 85, 309-327.	10.3	328
30	Activation of biologically relevant levels of reactive oxygen species by Au/g-C ₃ N ₄ hybrid nanozyme for bacteria killing and wound disinfection. <i>Biomaterials</i> , 2017, 113, 145-157.	11.4	318
31	Polyvalent Nucleic Acid/Mesoporous Silica Nanoparticle Conjugates: Dual Stimuli-Responsive Vehicles for Intracellular Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 882-886.	13.8	305
32	Hydrophobic Anticancer Drug Delivery by a 980 nm Laser-Driven Photothermal Vehicle for Efficient Synergistic Therapy of Cancer Cells <i>In Vivo</i> . <i>Advanced Materials</i> , 2013, 25, 4452-4458.	21.0	298
33	Carboxyl-modified single-walled carbon nanotubes selectively induce human telomeric i-motif formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19658-19663.	7.1	248
34	A dual fluorometric and colorimetric sensor for dopamine based on BSA-stabilized Au nanoclusters. <i>Biosensors and Bioelectronics</i> , 2013, 42, 41-46.	10.1	248
35	Defect-Rich Adhesive Nanozymes as Efficient Antibiotics for Enhanced Bacterial Inhibition. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16236-16242.	13.8	246
36	Light Controlled Reversible Inversion of Nanophosphor-Stabilized Pickering Emulsions for Biphasic Enantioselective Biocatalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 7498-7504.	13.7	240

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37	Improvement of Photoluminescence of Graphene Quantum Dots with a Biocompatible Photochemical Reduction Pathway and Its Bioimaging Application. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1174-1179.	8.0	224
38	Multicolor luminescent carbon nanoparticles: Synthesis, supramolecular assembly with porphyrin, intrinsic peroxidase-like catalytic activity and applications. <i>Nano Research</i> , 2011, 4, 908-920.	10.4	215
39	Construction of Nanozyme-Hydrogel for Enhanced Capture and Elimination of Bacteria. <i>Advanced Functional Materials</i> , 2019, 29, 1900518.	14.9	213
40	Mesoporous silica-encapsulated gold nanoparticles as artificial enzymes for self-activated cascade catalysis. <i>Biomaterials</i> , 2013, 34, 2600-2610.	11.4	212
41	Highly Photoluminescent Amino-Functionalized Graphene Quantum Dots Used for Sensing Copper Ions. <i>Chemistry - A European Journal</i> , 2013, 19, 13362-13368.	3.3	211
42	Metal-Organic Framework-Based Vaccine Platforms for Enhanced Systemic Immune and Memory Response. <i>Advanced Functional Materials</i> , 2016, 26, 6454-6461.	14.9	210
43	Polyoxometalates as Inhibitors of the Aggregation of Amyloid β Peptides Associated with Alzheimer's Disease. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4184-4188.	13.8	208
44	A series of MOF/Ce-based nanozymes with dual enzyme-like activity disrupting biofilms and hindering recolonization of bacteria. <i>Biomaterials</i> , 2019, 208, 21-31.	11.4	208
45	3D Graphene Oxide-Polymer Hydrogel: Near-Infrared Light-Triggered Active Scaffold for Reversible Cell Capture and On-Demand Release. <i>Advanced Materials</i> , 2013, 25, 6737-6743.	21.0	204
46	Transition-metal-substituted polyoxometalate derivatives as functional anti-amyloid agents for Alzheimer's disease. <i>Nature Communications</i> , 2014, 5, 3422.	12.8	204
47	Nature-Inspired Construction of MOF@COF Nanozyme with Active Sites in Tailored Microenvironment and Pseudopodia-Like Surface for Enhanced Bacterial Inhibition. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3469-3474.	13.8	203
48	Programmed Bacteria Death Induced by Carbon Dots with Different Surface Charge. <i>Small</i> , 2016, 12, 4713-4718.	10.0	202
49	A Multinuclear Metal Complex Based DNase-Mimetic Artificial Enzyme: Matrix Cleavage for Combating Bacterial Biofilms. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10732-10736.	13.8	202
50	Non-Enzymatic-Browning-Reaction: A Versatile Route for Production of Nitrogen-Doped Carbon Dots with Tunable Multicolor Luminescent Display. <i>Scientific Reports</i> , 2014, 4, 3564.	3.3	201
51	Bacterial Hyaluronidase Self-Triggered Prodrug Release for Chemo-Photothermal Synergistic Treatment of Bacterial Infection. <i>Small</i> , 2016, 12, 6200-6206.	10.0	200
52	An Enzyme-Mimicking Single-Atom Catalyst as an Efficient Multiple Reactive Oxygen and Nitrogen Species Scavenger for Sepsis Management. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5108-5115.	13.8	200
53	Unraveling the Enzymatic Activity of Oxygenated Carbon Nanotubes and Their Application in the Treatment of Bacterial Infections. <i>Nano Letters</i> , 2018, 18, 3344-3351.	9.1	199
54	Extraordinary Physical Properties of Functionalized Graphene. <i>Small</i> , 2012, 8, 2138-2151.	10.0	196

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55	Manganese Dioxide Nanozymes as Responsive Cytoprotective Shells for Individual Living Cell Encapsulation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13661-13665.	13.8	196
56	Near-Infrared Upconversion Controls Photocaged Cell Adhesion. <i>Journal of the American Chemical Society</i> , 2014, 136, 2248-2251.	13.7	192
57	An Efficient and Benign Antimicrobial Depot Based on Silver-Infused MoS ₂ . <i>ACS Nano</i> , 2017, 11, 4651-4659.	14.6	191
58	Modulating DNA-templated silver nanoclusters for fluorescence turn-on detection of thiol compounds. <i>Chemical Communications</i> , 2011, 47, 3487.	4.1	189
59	Hydration Changes for DNA Intercalation Reactions. <i>Journal of the American Chemical Society</i> , 2001, 123, 1-7.	13.7	184
60	Immunostimulatory oligonucleotides-loaded cationic graphene oxide with photothermally enhanced immunogenicity for photothermal/immune cancer therapy. <i>Biomaterials</i> , 2014, 35, 9963-9971.	11.4	182
61	Chiral metallo-supramolecular complexes selectively recognize human telomeric G-quadruplex DNA. <i>Nucleic Acids Research</i> , 2008, 36, 5695-5703.	14.5	181
62	Silver-Infused Porphyrinic Metal-Organic Framework: Surface-Adaptive, On-Demand Nanoplatform for Synergistic Bacteria Killing and Wound Disinfection. <i>Advanced Functional Materials</i> , 2019, 29, 1808594.	14.9	181
63	Visible-light-driven enhanced antibacterial and biofilm elimination activity of graphitic carbon nitride by embedded Ag nanoparticles. <i>Nano Research</i> , 2015, 8, 1648-1658.	10.4	179
64	Porphyrin MOF Dots-Based, Function-Adaptive Nanoplatform for Enhanced Penetration and Photodynamic Eradication of Bacterial Biofilms. <i>Advanced Functional Materials</i> , 2019, 29, 1903018.	14.9	175
65	Nanoceria-Triggered Synergetic Drug Release Based on CeO ₂ -Capped Mesoporous Silica Host-Guest Interactions and Switchable Enzymatic Activity and Cellular Effects of CeO ₂ . <i>Advanced Healthcare Materials</i> , 2013, 2, 1591-1599.	7.6	168
66	A multi-stimuli responsive gold nanocage-hyaluronic platform for targeted photothermal and chemotherapy. <i>Biomaterials</i> , 2014, 35, 9678-9688.	11.4	167
67	Selective and quantitative cancer cell detection using target-directed functionalized graphene and its synergetic peroxidase-like activity. <i>Chemical Communications</i> , 2011, 47, 4436.	4.1	166
68	Bioresponsive Hyaluronic Acid-Capped Mesoporous Silica Nanoparticles for Targeted Drug Delivery. <i>Chemistry - A European Journal</i> , 2013, 19, 1778-1783.	3.3	161
69	Nucleobases, nucleosides, and nucleotides: versatile biomolecules for generating functional nanomaterials. <i>Chemical Society Reviews</i> , 2018, 47, 1285-1306.	38.1	159
70	A label-free fluorescent turn-on enzymatic amplification assay for DNA detection using ligand-responsive G-quadruplex formation. <i>Chemical Communications</i> , 2011, 47, 5461-5463.	4.1	157
71	DNA metallization: principles, methods, structures, and applications. <i>Chemical Society Reviews</i> , 2018, 47, 4017-4072.	38.1	156
72	A Biocompatible Heterogeneous MOF-Cu Catalyst for In Vivo Drug Synthesis in Targeted Subcellular Organelles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6987-6992.	13.8	156

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73	Ionic liquids as precursors for highly luminescent, surface-different nitrogen-doped carbon dots used for label-free detection of Cu ²⁺ /Fe ³⁺ and cell imaging. <i>Analytica Chimica Acta</i> , 2014, 809, 128-133.	5.4	152
74	Heterogeneous Assembled Nanocomplexes for Ratiometric Detection of Highly Reactive Oxygen Species <i>in Vitro</i> and <i>in Vivo</i> . <i>ACS Nano</i> , 2014, 8, 6014-6023.	14.6	151
75	Visualizing Human Telomerase Activity with Primer-Modified Au Nanoparticles. <i>Small</i> , 2012, 8, 259-264.	10.0	148
76	Insights into the biomedical effects of carboxylated single-wall carbon nanotubes on telomerase and telomeres. <i>Nature Communications</i> , 2012, 3, 1074.	12.8	145
77	Ceria/POMs hybrid nanoparticles as a mimicking metallopeptidase for treatment of neurotoxicity of amyloid- β peptide. <i>Biomaterials</i> , 2016, 98, 92-102.	11.4	145
78	Label-Free Ultrasensitive Detection of Human Telomerase Activity Using Porphyrin-Functionalized Graphene and Electrochemiluminescence Technique. <i>Advanced Materials</i> , 2012, 24, 2447-2452.	21.0	143
79	Self-assembly of an organic-inorganic hybrid nanoflower as an efficient biomimetic catalyst for self-activated tandem reactions. <i>Chemical Communications</i> , 2015, 51, 4386-4389.	4.1	143
80	Chiral Metallohelical Complexes Enantioselectively Target Amyloid β for Treating Alzheimer's Disease. <i>Journal of the American Chemical Society</i> , 2014, 136, 11655-11663.	13.7	142
81	Liberation of Copper from Amyloid Plaques: Making a Risk Factor Useful for Alzheimer's Disease Treatment. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 9146-9155.	6.4	137
82	Detection of a Prognostic Indicator in Early-Stage Cancer Using Functionalized Graphene-Based Peptide Sensors. <i>Advanced Materials</i> , 2012, 24, 125-131.	21.0	136
83	Designed heterogeneous palladium catalysts for reversible light-controlled bioorthogonal catalysis in living cells. <i>Nature Communications</i> , 2018, 9, 1209.	12.8	136
84	Cerium oxide caged metal chelator: anti-aggregation and anti-oxidation integrated H ₂ O ₂ -responsive controlled drug release for potential Alzheimer's disease treatment. <i>Chemical Science</i> , 2013, 4, 2536.	7.4	133
85	Carbon Nanomaterials and DNA: from Molecular Recognition to Applications. <i>Accounts of Chemical Research</i> , 2016, 49, 461-470.	15.6	132
86	Engineered, self-assembled near-infrared photothermal agents for combined tumor immunotherapy and chemo-photothermal therapy. <i>Biomaterials</i> , 2014, 35, 6646-6656.	11.4	131
87	Ultrasensitive and Selective Detection of a Prognostic Indicator in Early-Stage Cancer Using Graphene Oxide and Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2010, 20, 3967-3971.	14.9	130
88	Tumor Microenvironment Activated Photothermal Strategy for Precisely Controlled Ablation of Solid Tumors upon NIR Irradiation. <i>Advanced Functional Materials</i> , 2015, 25, 1574-1580.	14.9	129
89	Natural DNA-Modified Graphene/Pd Nanoparticles as Highly Active Catalyst for Formic Acid Electro-Oxidation and for the Suzuki Reaction. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5001-5009.	8.0	128
90	Combination of Graphene Oxide and Thiol-Activated DNA Metallization for Sensitive Fluorescence Turn-On Detection of Cysteine and Their Use for Logic Gate Operations. <i>Advanced Functional Materials</i> , 2011, 21, 4565-4572.	14.9	127

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91	Gold Nanoparticle-Based Multifunctional Amyloid- β Inhibitor against Alzheimer's Disease. Chemistry - A European Journal, 2015, 21, 829-835.	3.3	127
92	Carbon nanotubes selective destabilization of duplex and triplex DNA and inducing B-A transition in solution. Nucleic Acids Research, 2006, 34, 3670-3676.	14.5	123
93	Visual and quantitative detection of copper ions using magnetic silica nanoparticles clicked on multiwalled carbon nanotubes. Chemical Communications, 2010, 46, 6572.	4.1	122
94	Polypyrrole nanoparticles as promising enzyme mimics for sensitive hydrogen peroxide detection. Chemical Communications, 2014, 50, 3030-3032.	4.1	122
95	Design of Surface-Active Artificial Enzyme Particles to Stabilize Pickering Emulsions for High-Performance Biphasic Biocatalysis. Advanced Materials, 2016, 28, 1682-1688.	21.0	121
96	Targeting RNA G-Quadruplex in SARS-CoV-2: A Promising Therapeutic Target for COVID-19?. Angewandte Chemie - International Edition, 2021, 60, 432-438.	13.8	120
97	MOF-encapsulated nanozyme enhanced siRNA combo: Control neural stem cell differentiation and ameliorate cognitive impairments in Alzheimer's disease model. Biomaterials, 2020, 255, 120160.	11.4	118
98	Biomaterialization inspired surface engineering of nanocarriers for pH-responsive, targeted drug delivery. Biomaterials, 2013, 34, 1364-1371.	11.4	117
99	Multiconfigurable Logic Gates Based on Fluorescence Switching in Adaptive Coordination Polymer Nanoparticles. Advanced Materials, 2014, 26, 1111-1117.	21.0	115
100	Manipulating cell fate: dynamic control of cell behaviors on functional platforms. Chemical Society Reviews, 2018, 47, 8639-8684.	38.1	115
101	Nature-Inspired Construction of MOF@COF Nanozyme with Active Sites in Tailored Microenvironment and Pseudopodia-Like Surface for Enhanced Bacterial Inhibition. Angewandte Chemie, 2021, 133, 3511-3516.	2.0	112
102	Noninvasive and Reversible Cell Adhesion and Detachment via Single-Wavelength Near-Infrared Laser Mediated Photoisomerization. Journal of the American Chemical Society, 2015, 137, 8199-8205.	13.7	111
103	Hyaluronic Acid-Templated Ag Nanoparticles/Graphene Oxide Composites for Synergistic Therapy of Bacteria Infection. ACS Applied Materials & Interfaces, 2017, 9, 19717-19724.	8.0	110
104	Renal-Clearable Porphyrinic Metal-Organic Framework Nanodots for Enhanced Photodynamic Therapy. ACS Nano, 2019, 13, 9206-9217.	14.6	110
105	Self-Propelled Active Photothermal Nanoswimmer for Deep-Layered Elimination of Biofilm In Vivo. Nano Letters, 2020, 20, 7350-7358.	9.1	108
106	Self-assembled, functionalized graphene and DNA as a universal platform for colorimetric assays. Biomaterials, 2013, 34, 4810-4817.	11.4	107
107	Near-Infrared- and pH-Responsive System for Reversible Cell Adhesion using Graphene/Gold Nanorods Functionalized with i-motif DNA. Angewandte Chemie - International Edition, 2013, 52, 6726-6730.	13.8	107
108	Nucleoside Triphosphates as Promoters to Enhance Nanoceria Enzyme-Like Activity and for Single-Nucleotide Polymorphism Typing. Advanced Functional Materials, 2014, 24, 1624-1630.	14.9	105

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109	DNA-mediated Construction of Hollow Upconversion Nanoparticles for Protein Harvesting and Near-Infrared Light Triggered Release. <i>Advanced Materials</i> , 2014, 26, 2424-2430.	21.0	104
110	Ionic Liquid as an Efficient Modulator on Artificial Enzyme System: Toward the Realization of High-Temperature Catalytic Reactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 4207-4210.	13.7	102
111	A Smart Nanoassembly for Multistage Targeted Drug Delivery and Magnetic Resonance Imaging. <i>Advanced Functional Materials</i> , 2014, 24, 3612-3620.	14.9	102
112	Renal-clearable ultrasmall covalent organic framework nanodots as photodynamic agents for effective cancer therapy. <i>Biomaterials</i> , 2019, 223, 119462.	11.4	101
113	Mesoporous Silica Nanoparticle-based H_2O_2 Responsive Controlled-Release System Used for Alzheimer's Disease Treatment. <i>Advanced Healthcare Materials</i> , 2012, 1, 332-336.	7.6	100
114	Engineered CpG-Antigen Conjugates Protected Gold Nanoclusters as Smart Self-Vaccines for Enhanced Immune Response and Cell Imaging. <i>Advanced Functional Materials</i> , 2014, 24, 1004-1010.	14.9	99
115	Synthesis of Fluorinated and Nonfluorinated Graphene Quantum Dots through a New Top-Down Strategy for Long-Time Cellular Imaging. <i>Chemistry - A European Journal</i> , 2015, 21, 3791-3797.	3.3	99
116	An efficient nano-based theranostic system for multi-modal imaging-guided photothermal sterilization in gastrointestinal tract. <i>Biomaterials</i> , 2015, 56, 206-218.	11.4	98
117	Self-Assembled Peptide-Polyoxometalate Hybrid Nanospheres: Two in One Enhances Targeted Inhibition of Amyloid- β Peptide Aggregation Associated with Alzheimer's Disease. <i>Small</i> , 2013, 9, 3455-3461.	10.0	97
118	A Label-Free, Quadruplex-Based Functional Molecular Beacon (LFG4-MB) for Fluorescence Turn-On Detection of DNA and Nuclease. <i>Chemistry - A European Journal</i> , 2011, 17, 1635-1641.	3.3	96
119	Polyoxometalate-based nanozyme: Design of a multifunctional enzyme for multi-faceted treatment of Alzheimer's disease. <i>Nano Research</i> , 2016, 9, 1079-1090.	10.4	96
120	Self-Protecting Biomimetic Nanozyme for Selective and Synergistic Clearance of Peripheral Amyloid- β in an Alzheimer's Disease Model. <i>Journal of the American Chemical Society</i> , 2020, 142, 21702-21711.	13.7	96
121	Nanocomposite Incorporating V_2O_5 Nanowires and Gold Nanoparticles for Mimicking an Enzyme Cascade Reaction and Its Application in the Detection of Biomolecules. <i>Chemistry - A European Journal</i> , 2014, 20, 7501-7506.	3.3	95
122	Upconversion nanoprobe for efficiently in-vitro imaging reactive oxygen species and in-vivo diagnosing rheumatoid arthritis. <i>Biomaterials</i> , 2015, 39, 15-22.	11.4	95
123	Copper(II)-Graphitic Carbon Nitride Triggered Synergy: Improved ROS Generation and Reduced Glutathione Levels for Enhanced Photodynamic Therapy. <i>Angewandte Chemie</i> , 2016, 128, 11639-11643.	2.0	95
124	Ultrasensitive and Selective Detection of a Prognostic Indicator in Early-Stage Cancer Using Graphene Oxide and Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2010, 20, 3966-3966.	14.9	94
125	Using Thermally Regenerable Cerium Oxide Nanoparticles in Biocomputing to Perform Label-Free, Resettable, and Colorimetric Logic Operations. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12579-12583.	13.8	93
126	Spatiotemporal control of cell-cell reversible interactions using molecular engineering. <i>Nature Communications</i> , 2016, 7, 13088.	12.8	93

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127	Encapsulation of aggregated gold nanoclusters in a metal-organic framework for real-time monitoring of drug release. <i>Nanoscale</i> , 2017, 9, 4128-4134.	5.6	93
128	Near-Infrared Switchable Fullerene-Based Synergy Therapy for Alzheimer's Disease. <i>Small</i> , 2018, 14, e1801852.	10.0	93
129	Specific Oxygenated Groups Enriched Graphene Quantum Dots as Highly Efficient Enzyme Mimics. <i>Small</i> , 2018, 14, e1703710.	10.0	92
130	Nanozyme as Artificial Receptor with Multiple Readouts for Pattern Recognition. <i>Analytical Chemistry</i> , 2018, 90, 11775-11779.	6.5	92
131	Photomodulated Nanozyme Used for a Gram-Selective Antimicrobial. <i>Chemistry of Materials</i> , 2018, 30, 7027-7033.	6.7	92
132	Ultrasmall Nanozymes Isolated within Porous Carbonaceous Frameworks for Synergistic Cancer Therapy: Enhanced Oxidative Damage and Reduced Energy Supply. <i>Chemistry of Materials</i> , 2018, 30, 7831-7839.	6.7	91
133	Mesoporous Encapsulated Chiral Nanogold for Use in Enantioselective Reactions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16791-16795.	13.8	91
134	Nucleic Acids and Smart Materials: Advanced Building Blocks for Logic Systems. <i>Advanced Materials</i> , 2014, 26, 5742-5757.	21.0	89
135	Glutathione Depletion in a Benign Manner by MoS ₂ -Based Nanoflowers for Enhanced Hypoxia-irrelevant Free-Radical-Based Cancer Therapy. <i>Small</i> , 2019, 15, e1904870.	10.0	89
136	A Smart "Sense-Act-Treat" System: Combining a Ratiometric pH Sensor with a Near Infrared Therapeutic Gold Nanocage. <i>Advanced Materials</i> , 2014, 26, 6635-6641.	21.0	88
137	Chirality-Selected Chemical Modulation of Amyloid Aggregation. <i>Journal of the American Chemical Society</i> , 2019, 141, 6915-6921.	13.7	87
138	Combating Biofilm Associated Infection In Vivo: Integration of Quorum Sensing Inhibition and Photodynamic Treatment based on Multidrug Delivered Hollow Carbon Nitride Sphere. <i>Advanced Functional Materials</i> , 2019, 29, 1808222.	14.9	87
139	Miniaturization of Metal-Organic Frameworks Based on Stereoselective Self-Assembly and Potential Application in Water Treatment and as Antibacterial Agents. <i>Chemistry - A European Journal</i> , 2012, 18, 4322-4328.	3.3	86
140	A Lactamase-Imprinted Responsive Hydrogel for the Treatment of Antibiotic-Resistant Bacteria. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8049-8053.	13.8	86
141	Current Strategies for Modulating Al ²⁺ Aggregation with Multifunctional Agents. <i>Accounts of Chemical Research</i> , 2021, 54, 2172-2184.	15.6	86
142	Site-Specific DNA-Programmed Growth of Fluorescent and Functional Silver Nanoclusters. <i>Chemistry - A European Journal</i> , 2011, 17, 3774-3780.	3.3	85
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