

Xiaohu Gao

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

19,220
citations

53660

45
h-index

38300

95
g-index

108
all docs

108
docs citations

108
times ranked

21086
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo cancer targeting and imaging with semiconductor quantum dots. <i>Nature Biotechnology</i> , 2004, 22, 969-976.	9.4	4,460
2	Quantum-dot-tagged microbeads for multiplexed optical coding of biomolecules. <i>Nature Biotechnology</i> , 2001, 19, 631-635.	9.4	2,536
3	Luminescent quantum dots for multiplexed biological detection and imaging. <i>Current Opinion in Biotechnology</i> , 2002, 13, 40-46.	3.3	1,975
4	In vivo molecular and cellular imaging with quantum dots. <i>Current Opinion in Biotechnology</i> , 2005, 16, 63-72.	3.3	1,131
5	Designing multifunctional quantum dots for bioimaging, detection, and drug delivery. <i>Chemical Society Reviews</i> , 2010, 39, 4326.	18.7	866
6	Emerging use of nanoparticles in diagnosis and treatment of breast cancer. <i>Lancet Oncology</i> , The, 2006, 7, 657-667.	5.1	505
7	Multifunctional nanoparticles as coupled contrast agents. <i>Nature Communications</i> , 2010, 1, 41.	5.8	456
8	Quantum-dot nanocrystals for ultrasensitive biological labeling and multicolor optical encoding. <i>Journal of Biomedical Optics</i> , 2002, 7, 532.	1.4	412
9	Proton-Sponge Coated Quantum Dots for siRNA Delivery and Intracellular Imaging. <i>Journal of the American Chemical Society</i> , 2008, 130, 9006-9012.	6.6	387
10	Plasmonic fluorescent quantum dots. <i>Nature Nanotechnology</i> , 2009, 4, 571-576.	15.6	383
11	Quantum dots as a platform for nanoparticle drug delivery vehicle design. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 703-718.	6.6	375
12	Multicolor quantum dots for molecular diagnostics of cancer. <i>Expert Review of Molecular Diagnostics</i> , 2006, 6, 231-244.	1.5	322
13	Single Chain Epidermal Growth Factor Receptor Antibody Conjugated Nanoparticles for in vivo Tumor Targeting and Imaging. <i>Small</i> , 2009, 5, 235-243.	5.2	315
14	Quantum Dot-Encoded Mesoporous Beads with High Brightness and Uniformity: A Rapid Readout Using Flow Cytometry. <i>Analytical Chemistry</i> , 2004, 76, 2406-2410.	3.2	271
15	Nanocomposites with Spatially Separated Functionalities for Combined Imaging and Magnetolytic Therapy. <i>Journal of the American Chemical Society</i> , 2010, 132, 7234-7237.	6.6	266
16	Quantum dot imaging platform for single-cell molecular profiling. <i>Nature Communications</i> , 2013, 4, 1619.	5.8	217
17	Molecular profiling of single cells and tissue specimens with quantum dots. <i>Trends in Biotechnology</i> , 2003, 21, 371-373.	4.9	216
18	Receptor-Targeted Nanoparticles for <i>In vivo</i> Imaging of Breast Cancer. <i>Clinical Cancer Research</i> , 2009, 15, 4722-4732.	3.2	210

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19	Quantum Dot ⁺ Amphipol Nanocomplex for Intracellular Delivery and Real-Time Imaging of siRNA. <i>ACS Nano</i> , 2008, 2, 1403-1410.	7.3	206
20	Nanoparticle counting: towards accurate determination of the molar concentration. <i>Chemical Society Reviews</i> , 2014, 43, 7267-7278.	18.7	189
21	Doping Mesoporous Materials with Multicolor Quantum Dots. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11575-11578.	1.2	175
22	Emerging application of quantum dots for drug delivery and therapy. <i>Expert Opinion on Drug Delivery</i> , 2008, 5, 263-267.	2.4	163
23	Silica ⁺ Polymer Dual Layer-Encapsulated Quantum Dots with Remarkable Stability. <i>ACS Nano</i> , 2010, 4, 6080-6086.	7.3	147
24	Functional peptides for siRNA delivery. <i>Advanced Drug Delivery Reviews</i> , 2017, 110-111, 157-168.	6.6	138
25	Multifunctional Nanocapsules for Simultaneous Encapsulation of Hydrophilic and Hydrophobic Compounds and On-Demand Release. <i>ACS Nano</i> , 2012, 6, 2558-2565.	7.3	137
26	Membrane ⁺ Penetrating Carbon Quantum Dots for Imaging Nucleic Acid Structures in Live Organisms. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7087-7091.	7.2	131
27	Quantum Dot Nanocrystals for In Vivo Molecular and Cellular Imaging [†] . <i>Photochemistry and Photobiology</i> , 2004, 80, 377.	1.3	128
28	Spectrally Tunable Leakage-Free Gold Nanocontainers. <i>Journal of the American Chemical Society</i> , 2009, 131, 17774-17776.	6.6	120
29	Congenital Zika virus infection as a silent pathology with loss of neurogenic output in the fetal brain. <i>Nature Medicine</i> , 2018, 24, 368-374.	15.2	117
30	Multifunctional quantum dots for personalized medicine. <i>Nano Today</i> , 2009, 4, 414-428.	6.2	113
31	Quantum Dot Nanobarcodes: Epitaxial Assembly of Nanoparticle ⁺ Polymer Complexes in Homogeneous Solution. <i>Journal of the American Chemical Society</i> , 2008, 130, 5286-5292.	6.6	112
32	siRNA-Aptamer Chimeras on Nanoparticles: Preserving Targeting Functionality for Effective Gene Silencing. <i>ACS Nano</i> , 2011, 5, 8131-8139.	7.3	94
33	Conjugated polymer nanoparticles for photoacoustic vascular imaging. <i>Polymer Chemistry</i> , 2014, 5, 2854-2862.	1.9	93
34	Dramatic enhancement of the detection limits of bioassays via ultrafast deposition of polydopamine. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	93
35	Triplex DNA Nanoswitch for pH-Sensitive Release of Multiple Cancer Drugs. <i>ACS Nano</i> , 2019, 13, 7333-7344.	7.3	89
36	An Aggregation ⁺ Induced ⁺ Emission Platform for Direct Visualization of Interfacial Dynamic Self ⁺ Assembly. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13518-13522.	7.2	77

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37	Encapsulation of Single Quantum Dots with Mesoporous Silica. <i>Annals of Biomedical Engineering</i> , 2009, 37, 1960-1966.	1.3	75
38	Quantum Dots for Molecular Pathology. <i>Journal of Molecular Diagnostics</i> , 2007, 9, 7-11.	1.2	73
39	Multilayer coating of gold nanorods for combined stability and biocompatibility. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10028.	1.3	73
40	Cross-Platform Cancer Cell Identification Using Telomerase-Specific Spherical Nucleic Acids. <i>ACS Nano</i> , 2018, 12, 3629-3637.	7.3	66
41	A ribonucleoprotein octamer for targeted siRNA delivery. <i>Nature Biomedical Engineering</i> , 2018, 2, 326-337.	11.6	63
42	Quantum Dots for In Vivo Molecular and Cellular Imaging. , 2007, 374, 135-146.		60
43	Multicolor multicycle molecular profiling with quantum dots for single-cell analysis. <i>Nature Protocols</i> , 2013, 8, 1852-1869.	5.5	60
44	<i>In Vitro</i> Toxicity Assessment of Amphiphilic Polymer-Coated CdSe/ZnS Quantum Dots in Two Human Liver Cell Models. <i>ACS Nano</i> , 2012, 6, 9475-9484.	7.3	58
45	Magneto-Optical Nanoparticles for Cyclic Magnetomotive Photoacoustic Imaging. <i>ACS Nano</i> , 2015, 9, 1964-1976.	7.3	50
46	Trapping and Photoacoustic Detection of CTCs at the Single Cell per Milliliter Level with Magneto-Optical Coupled Nanoparticles. <i>Small</i> , 2013, 9, 2046-2052.	5.2	47
47	A Universal Protein Tag for Delivery of siRNA-Aptamer Chimeras. <i>Scientific Reports</i> , 2013, 3, 3129.	1.6	45
48	Ultrasensitive detection and molecular imaging with magnetic nanoparticles. <i>Analyst</i> , 2008, 133, 154-160.	1.7	43
49	Method for Determining the Elemental Composition and Distribution in Semiconductor Core-Shell Quantum Dots. <i>Analytical Chemistry</i> , 2011, 83, 866-873.	3.2	41
50	Toxicity and oxidative stress induced by semiconducting polymer dots in RAW264.7 mouse macrophages. <i>Nanoscale</i> , 2015, 7, 10085-10093.	2.8	37
51	Cytosolic delivery of proteins by cholesterol tagging. <i>Science Advances</i> , 2020, 6, eabb0310.	4.7	37
52	Quantum Dots for Cancer Molecular Imaging. <i>Advances in Experimental Medicine and Biology</i> , 2007, 620, 57-73.	0.8	36
53	Engineering Monovalent Quantum Dot-Antibody Bioconjugates with a Hybrid Gel System. <i>Bioconjugate Chemistry</i> , 2011, 22, 510-517.	1.8	36
54	Stable Encapsulation of Quantum Dot Barcodes with Silica Shells. <i>Advanced Functional Materials</i> , 2010, 20, 3721-3726.	7.8	35

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55	Rapid Multitarget Immunomagnetic Separation through Programmable DNA Linker Displacement. <i>Journal of the American Chemical Society</i> , 2011, 133, 17126-17129.	6.6	34
56	Emerging applications of conjugated polymers in molecular imaging. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17006.	1.3	34
57	Susceptibility to quantum dot induced lung inflammation differs widely among the Collaborative Cross founder mouse strains. <i>Toxicology and Applied Pharmacology</i> , 2015, 289, 240-250.	1.3	33
58	Functional Photoacoustic Imaging of Gastric Acid Secretion Using pH-Responsive Polyaniline Nanoprobes. <i>Small</i> , 2016, 12, 4690-4696.	5.2	32
59	Amphiphilic polymer-coated CdSe/ZnS quantum dots induce pro-inflammatory cytokine expression in mouse lung epithelial cells and macrophages. <i>Nanotoxicology</i> , 2015, 9, 336-343.	1.6	31
60	A universal strategy for the one-pot synthesis of SERS tags. <i>Nanoscale</i> , 2018, 10, 8292-8297.	2.8	30
61	The Glutathione Synthesis Gene Gclm Modulates Amphiphilic Polymer-Coated CdSe/ZnS Quantum Dot-Induced Lung Inflammation in Mice. <i>PLoS ONE</i> , 2013, 8, e64165.	1.1	29
62	Scalable Production of Therapeutic Protein Nanoparticles Using Flash Nanoprecipitation. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801010.	3.9	27
63	Noncovalent tagging of siRNA with steroids for transmembrane delivery. <i>Biomaterials</i> , 2018, 178, 720-727.	5.7	26
64	Stably Doped Conducting Polymer Nanoshells by Surface Initiated Polymerization. <i>Nano Letters</i> , 2015, 15, 8217-8222.	4.5	24
65	Combining Qdot Nanotechnology and DNA Nanotechnology for Sensitive Single-Cell Imaging. <i>Advanced Materials</i> , 2020, 32, e1908410.	11.1	24
66	Direct characterization of polymer encapsulated CdSe/CdS/ZnS quantum dots. <i>Surface Science</i> , 2016, 648, 339-344.	0.8	23
67	Triblock Copolymer-Encapsulated Nanoparticles with Outstanding Colloidal Stability for siRNA Delivery. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2845-2852.	4.0	22
68	Magnetomotive photoacoustic imaging: <i>in vitro</i> studies of magnetic trapping with simultaneous photoacoustic detection of rare circulating tumor cells. <i>Journal of Biophotonics</i> , 2013, 6, 513-522.	1.1	21
69	Eliminating Size-Associated Diffusion Constraints for Rapid On-Surface Bioassays with Nanoparticle Probes. <i>Small</i> , 2016, 12, 1035-1043.	5.2	21
70	Heme oxygenase expression as a biomarker of exposure to amphiphilic polymer-coated CdSe/ZnS quantum dots. <i>Nanotoxicology</i> , 2013, 7, 181-191.	1.6	20
71	Synthesis of hybrid magneto-plasmonic nanoparticles with potential use in photoacoustic detection of circulating tumor cells. <i>Mikrochimica Acta</i> , 2018, 185, 130.	2.5	19
72	Membrane-Penetrating Carbon Quantum Dots for Imaging Nucleic Acid Structures in Live Organisms. <i>Angewandte Chemie</i> , 2019, 131, 7161-7165.	1.6	19

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73	Engineering Single Nanopores on Gold Nanoplates by Tuning Crystal Screw Dislocation. <i>Advanced Materials</i> , 2017, 29, 1703102.	11.1	17
74	Lipid Stabilized Solid Drug Nanoparticles for Targeted Chemotherapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24969-24974.	4.0	16
75	Gradient Coating of Polydopamine via CDR. <i>Langmuir</i> , 2017, 33, 6727-6731.	1.6	13
76	Quantum dots and mouse strain influence house dust mite-induced allergic airway disease. <i>Toxicology and Applied Pharmacology</i> , 2019, 368, 55-62.	1.3	13
77	Quantum dot induced acute changes in lung mechanics are mouse strain dependent. <i>Inhalation Toxicology</i> , 2018, 30, 397-403.	0.8	12
78	Trapping and dynamic manipulation of polystyrene beads mimicking circulating tumor cells using targeted magnetic/photoacoustic contrast agents. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	1.4	11
79	Immuno-Nanoparticles for Multiplex Protein Imaging in Cells and Tissues. <i>Biochip Journal</i> , 2018, 12, 83-92.	2.5	11
80	Cross-Platform DNA Encoding for Single-Cell Imaging of Gene Expression. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8975-8978.	7.2	10
81	Quantum Dot Nanocrystals for <i>In Vivo</i> Molecular and Cellular Imaging. <i>Photochemistry and Photobiology</i> , 2004, 80, 377-385.	1.3	9
82	Can Molecular Imaging Enable Personalized Diagnostics? An Example Using Magnetomotive Photoacoustic Imaging. <i>Annals of Biomedical Engineering</i> , 2013, 41, 2237-2247.	1.3	7
83	Ribonucleoprotein: A Biomimetic Platform for Targeted siRNA Delivery. <i>Advanced Functional Materials</i> , 2019, 29, 1902221.	7.8	7
84	Magneto-Endosomal Therapy for Cancer. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101010.	3.9	6
85	Eliminating Diffusion Limitations at the Solid-Liquid Interface for Rapid Polymer Deposition. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 782-786.	2.6	5
86	Synthetic Polymer Tag for Intracellular Delivery of siRNA. <i>Advanced Biology</i> , 2018, 2, 1800075.	3.0	5
87	Multifunctional quantum dots for cellular and molecular imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 524-5.	0.5	4
88	Contrast-enhanced photoacoustic imaging. , 2010, , .		3
89	Multiplexed In-cell Immunoassay for Same-sample Protein Expression Profiling. <i>Scientific Reports</i> , 2015, 5, 13651.	1.6	3
90	Partial Magneto-Endosomal Analysis for Cytosolic Delivery of Antibodies. <i>Bioconjugate Chemistry</i> , 2022, 33, 363-368.	1.8	3

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91	Nanoparticles: Trapping and Photoacoustic Detection of CTCs at the Single Cell per Milliliter Level with Magneto-Optical Coupled Nanoparticles (Small 12/2013). Small, 2013, 9, 2045-2045.	5.2	2
92	Addressing Key Technical Aspects of Quantum Dot Probe Preparation for Bioassays. Particle and Particle Systems Characterization, 2014, 31, 1291-1299.	1.2	2
93	Bioassays: Eliminating Size-Associated Diffusion Constraints for Rapid On-Surface Bioassays with Nanoparticle Probes (Small 8/2016). Small, 2016, 12, 1034-1034.	5.2	2
94	Trapping and dynamic manipulation of magnetic contrast agent targeted cancer cells in photoacoustic imaging: Phantom study. , 2011, , .		1
95	Molecular Imaging with Multifunctional Nanoparticles. Clinical Chemistry, 2013, 59, 1532-1533.	1.5	1
96	A living light bulb, ultrasensitive biodetection made easy. Cell and Bioscience, 2014, 4, 34.	2.1	1
97	Semiconductor Quantum Dots as Multicolor and Ultrasensitive Biological Labels. , 0, , 494-506.		0
98	QD barcodes for biosensing and detection. , 2009, 2009, 6372-3.		0
99	Traceable siRNA delivery with quantum dots. , 2009, 2009, 4093-4.		0
100	Magnetic trapping and photoacoustic detection of rare circulating tumor cells. , 2012, , .		0
101	Particles for Healthcare Applications. Particle and Particle Systems Characterization, 2014, 31, 1202-1203.	1.2	0
102	Leveraging nanotechnology for enrichment of circulating tumor cells in vivo. Nanomedicine, 2015, 10, 2477-2480.	1.7	0
103	Cross-Platform DNA Encoding for Single-Cell Imaging of Gene Expression. Angewandte Chemie, 2016, 128, 9121-9124.	1.6	0
104	Eliminating the Animal Species Constraints in Antibody Selection for Multicolor Immunoassays. Bioconjugate Chemistry, 2017, 28, 1499-1504.	1.8	0
105	Molecular Engineering: From Molecules to Medicine. Advanced Healthcare Materials, 2019, 8, 1900225.	3.9	0