

Xiaohu Gao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

16,920
citations

45
h-index

107
g-index

107
ext. papers

18,129
ext. citations

11.8
avg, IF

6.74
L-index

#	Paper	IF	Citations
99	In vivo cancer targeting and imaging with semiconductor quantum dots. <i>Nature Biotechnology</i> , 2004 , 22, 969-76	44.5	4032
98	Quantum-dot-tagged microbeads for multiplexed optical coding of biomolecules. <i>Nature Biotechnology</i> , 2001 , 19, 631-5	44.5	2266
97	Luminescent quantum dots for multiplexed biological detection and imaging. <i>Current Opinion in Biotechnology</i> , 2002 , 13, 40-6	11.4	1750
96	In vivo molecular and cellular imaging with quantum dots. <i>Current Opinion in Biotechnology</i> , 2005 , 16, 63-72	11.4	1004
95	Designing multifunctional quantum dots for bioimaging, detection, and drug delivery. <i>Chemical Society Reviews</i> , 2010 , 39, 4326-54	58.5	778
94	Emerging use of nanoparticles in diagnosis and treatment of breast cancer. <i>Lancet Oncology</i> , 2006 , 7, 657-67	21.7	416
93	Multifunctional nanoparticles as coupled contrast agents. <i>Nature Communications</i> , 2010 , 1, 41	17.4	413
92	Quantum-dot nanocrystals for ultrasensitive biological labeling and multicolor optical encoding. <i>Journal of Biomedical Optics</i> , 2002 , 7, 532-7	3.5	374
91	Proton-sponge coated quantum dots for siRNA delivery and intracellular imaging. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9006-12	16.4	360
90	Plasmonic fluorescent quantum dots. <i>Nature Nanotechnology</i> , 2009 , 4, 571-6	28.7	348
89	Quantum dots as a platform for nanoparticle drug delivery vehicle design. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 703-18	18.5	316
88	Multicolor quantum dots for molecular diagnostics of cancer. <i>Expert Review of Molecular Diagnostics</i> , 2006 , 6, 231-44	3.8	288
87	Single chain epidermal growth factor receptor antibody conjugated nanoparticles for in vivo tumor targeting and imaging. <i>Small</i> , 2009 , 5, 235-43	11	278
86	Nanocomposites with spatially separated functionalities for combined imaging and magnetolytic therapy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7234-7	16.4	247
85	Quantum dot-encoded mesoporous beads with high brightness and uniformity: rapid readout using flow cytometry. <i>Analytical Chemistry</i> , 2004 , 76, 2406-10	7.8	247
84	Quantum dot-amphipol nanocomplex for intracellular delivery and real-time imaging of siRNA. <i>ACS Nano</i> , 2008 , 2, 1403-10	16.7	195
83	Molecular profiling of single cells and tissue specimens with quantum dots. <i>Trends in Biotechnology</i> , 2003 , 21, 371-3	15.1	192

82	Receptor-targeted nanoparticles for in vivo imaging of breast cancer. <i>Clinical Cancer Research</i> , 2009 , 15, 4722-32	12.9	187
81	Quantum dot imaging platform for single-cell molecular profiling. <i>Nature Communications</i> , 2013 , 4, 1619-17.4	17.4	186
80	Doping Mesoporous Materials with Multicolor Quantum Dots. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 11575-11578	3.4	159
79	Silica-polymer dual layer-encapsulated quantum dots with remarkable stability. <i>ACS Nano</i> , 2010 , 4, 6080-6.7	6.7	139
78	Nanoparticle counting: towards accurate determination of the molar concentration. <i>Chemical Society Reviews</i> , 2014 , 43, 7267-78	58.5	136
77	Multifunctional nanocapsules for simultaneous encapsulation of hydrophilic and hydrophobic compounds and on-demand release. <i>ACS Nano</i> , 2012 , 6, 2558-65	16.7	130
76	Spectrally tunable leakage-free gold nanocontainers. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17774-6	16.4	114
75	Quantum Dot Nanocrystals for In Vivo Molecular and Cellular Imaging. <i>Photochemistry and Photobiology</i> , 2004 , 80, 377	3.6	111
74	Quantum dot nanobarcodes: epitaxial assembly of nanoparticle-polymer complexes in homogeneous solution. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5286-92	16.4	109
73	Multifunctional Quantum Dots for Personalized Medicine. <i>Nano Today</i> , 2009 , 4, 414-428	17.9	102
72	Functional peptides for siRNA delivery. <i>Advanced Drug Delivery Reviews</i> , 2017 , 110-111, 157-168	18.5	93
71	Conjugated polymer nanoparticles for photoacoustic vascular imaging. <i>Polymer Chemistry</i> , 2014 , 5, 2854-2862	28.62	86
70	Membrane-Penetrating Carbon Quantum Dots for Imaging Nucleic Acid Structures in Live Organisms. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7087-7091	16.4	85
69	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	50.5	85
68	siRNA-aptamer chimeras on nanoparticles: preserving targeting functionality for effective gene silencing. <i>ACS Nano</i> , 2011 , 5, 8131-9	16.7	83
67	An aggregation-induced-emission platform for direct visualization of interfacial dynamic self-assembly. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13518-13522	16.4	67
66	Dramatic enhancement of the detection limits of bioassays via ultrafast deposition of polydopamine. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	67
65	Multilayer coating of gold nanorods for combined stability and biocompatibility. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10028-35	3.6	65

64	Encapsulation of single quantum dots with mesoporous silica. <i>Annals of Biomedical Engineering</i> , 2009 , 37, 1960-6	4.7	65
63	Quantum dots for molecular pathology: their time has arrived. <i>Journal of Molecular Diagnostics</i> , 2007 , 9, 7-11	5.1	61
62	Triplex DNA Nanoswitch for pH-Sensitive Release of Multiple Cancer Drugs. <i>ACS Nano</i> , 2019 , 13, 7333-7344	14.7	59
61	In vitro toxicity assessment of amphiphilic polymer-coated CdSe/ZnS quantum dots in two human liver cell models. <i>ACS Nano</i> , 2012 , 6, 9475-84	16.7	56
60	Multicolor multicycle molecular profiling with quantum dots for single-cell analysis. <i>Nature Protocols</i> , 2013 , 8, 1852-69	18.8	52
59	Quantum dots for in vivo molecular and cellular imaging. <i>Methods in Molecular Biology</i> , 2007 , 374, 135-45	14.4	50
58	A ribonucleoprotein octamer for targeted siRNA delivery. <i>Nature Biomedical Engineering</i> , 2018 , 2, 326-337	17	47
57	Magneto-optical nanoparticles for cyclic magnetomotive photoacoustic imaging. <i>ACS Nano</i> , 2015 , 9, 1964-76	17.6	47
56	Cross-Platform Cancer Cell Identification Using Telomerase-Specific Spherical Nucleic Acids. <i>ACS Nano</i> , 2018 , 12, 3629-3637	16.7	46
55	Trapping and photoacoustic detection of CTCs at the single cell per milliliter level with magneto-optical coupled nanoparticles. <i>Small</i> , 2013 , 9, 2046-52, 2045	11	42
54	Ultrasensitive detection and molecular imaging with magnetic nanoparticles. <i>Analyst, The</i> , 2008 , 133, 154-60	5	39
53	Method for determining the elemental composition and distribution in semiconductor core-shell quantum dots. <i>Analytical Chemistry</i> , 2011 , 83, 866-73	7.8	36
52	Engineering monovalent quantum dot-antibody bioconjugates with a hybrid gel system. <i>Bioconjugate Chemistry</i> , 2011 , 22, 510-7	6.3	35
51	A universal protein tag for delivery of siRNA-aptamer chimeras. <i>Scientific Reports</i> , 2013 , 3, 3129	4.9	33
50	Toxicity and oxidative stress induced by semiconducting polymer dots in RAW264.7 mouse macrophages. <i>Nanoscale</i> , 2015 , 7, 10085-10093	7.7	31
49	Rapid multitarget immunomagnetic separation through programmable DNA linker displacement. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17126-9	16.4	31
48	Emerging applications of conjugated polymers in molecular imaging. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 17006-15	3.6	30
47	Stable Encapsulation of QD Barcodes with Silica Shells. <i>Advanced Functional Materials</i> , 2010 , 20, 3721-3726	15.6	30

46	Quantum dots for cancer molecular imaging. <i>Advances in Experimental Medicine and Biology</i> , 2007 , 620, 57-73	3.6	30
45	Susceptibility to quantum dot induced lung inflammation differs widely among the Collaborative Cross founder mouse strains. <i>Toxicology and Applied Pharmacology</i> , 2015 , 289, 240-50	4.6	28
44	Amphiphilic polymer-coated CdSe/ZnS quantum dots induce pro-inflammatory cytokine expression in mouse lung epithelial cells and macrophages. <i>Nanotoxicology</i> , 2015 , 9, 336-43	5.3	26
43	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	3.7	24
42	Functional Photoacoustic Imaging of Gastric Acid Secretion Using pH-Responsive Polyaniline Nanoprobes. <i>Small</i> , 2016 , 12, 4690-6	11	24
41	Triblock copolymer-encapsulated nanoparticles with outstanding colloidal stability for siRNA delivery. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2845-52	9.5	21
40	Scalable Production of Therapeutic Protein Nanoparticles Using Flash Nanoprecipitation. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801010	10.1	21
39	Direct Characterization of Polymer Encapsulated CdSe/CdS/ZnS Quantum Dots. <i>Surface Science</i> , 2016 , 648, 339-344	1.8	20
38	Stably Doped Conducting Polymer Nanoshells by Surface Initiated Polymerization. <i>Nano Letters</i> , 2015 , 15, 8217-22	11.5	19
37	Noncovalent tagging of siRNA with steroids for transmembrane delivery. <i>Biomaterials</i> , 2018 , 178, 720-727	5.6	19
36	Magnetomotive photoacoustic imaging: in vitro studies of magnetic trapping with simultaneous photoacoustic detection of rare circulating tumor cells. <i>Journal of Biophotonics</i> , 2013 , 6, 513-22	3.1	19
35	Heme oxygenase expression as a biomarker of exposure to amphiphilic polymer-coated CdSe/ZnS quantum dots. <i>Nanotoxicology</i> , 2013 , 7, 181-91	5.3	19
34	A universal strategy for the one-pot synthesis of SERS tags. <i>Nanoscale</i> , 2018 , 10, 8292-8297	7.7	18
33	Eliminating Size-Associated Diffusion Constraints for Rapid On-Surface Bioassays with Nanoparticle Probes. <i>Small</i> , 2016 , 12, 1035-1043	11	17
32	An Aggregation-Induced-Emission Platform for Direct Visualization of Interfacial Dynamic Self-Assembly. <i>Angewandte Chemie</i> , 2014 , 126, 13736-13740	3.6	16
31	Engineering Single Nanopores on Gold Nanoplates by Tuning Crystal Screw Dislocation. <i>Advanced Materials</i> , 2017 , 29, 1703102	24	15
30	Synthesis of hybrid magneto-plasmonic nanoparticles with potential use in photoacoustic detection of circulating tumor cells. <i>Mikrochimica Acta</i> , 2018 , 185, 130	5.8	14
29	Cytosolic delivery of proteins by cholesterol tagging. <i>Science Advances</i> , 2020 , 6, eabb0310	14.3	13

28	Combining Qdot Nanotechnology and DNA Nanotechnology for Sensitive Single-Cell Imaging. <i>Advanced Materials</i> , 2020 , 32, e1908410	24	12
27	Gradient Coating of Polydopamine via CDR. <i>Langmuir</i> , 2017 , 33, 6727-6731	4	12
26	Lipid Stabilized Solid Drug Nanoparticles for Targeted Chemotherapy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24969-24974	9.5	11
25	Quantum dots and mouse strain influence house dust mite-induced allergic airway disease. <i>Toxicology and Applied Pharmacology</i> , 2019 , 368, 55-62	4.6	9
24	Immuno-Nanoparticles for Multiplex Protein Imaging in Cells and Tissues. <i>Biochip Journal</i> , 2018 , 12, 83-92	9	
23	Membrane-Penetrating Carbon Quantum Dots for Imaging Nucleic Acid Structures in Live Organisms. <i>Angewandte Chemie</i> , 2019 , 131, 7161-7165	3.6	8
22	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, 101517	3.5	8
21	Cross-Platform DNA Encoding for Single-Cell Imaging of Gene Expression. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8975-8	16.4	8
20	Can molecular imaging enable personalized diagnostics? An example using magnetomotive photoacoustic imaging. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 2237-47	4.7	7
19	Quantum dot induced acute changes in lung mechanics are mouse strain dependent. <i>Inhalation Toxicology</i> , 2018 , 30, 397-403	2.7	7
18	Quantum Dot Nanocrystals for In Vivo Molecular and Cellular Imaging. <i>Photochemistry and Photobiology</i> , 2007 , 80, 377-385	3.6	6
17	Eliminating Diffusion Limitations at the Solid-Liquid Interface for Rapid Polymer Deposition. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 782-786	5.5	5
16	Ribonucleoprotein: A Biomimetic Platform for Targeted siRNA Delivery. <i>Advanced Functional Materials</i> , 2019 , 29, 1902221	15.6	5
15	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		4
14	Synthetic Polymer Tag for Intracellular Delivery of siRNA. <i>Advanced Biology</i> , 2018 , 2, 1800075	3.5	4
13	Addressing Key Technical Aspects of Quantum Dot Probe Preparation for Bioassays. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 1291-1299	3.1	2
12	Bioassays: Eliminating Size-Associated Diffusion Constraints for Rapid On-Surface Bioassays with Nanoparticle Probes (Small 8/2016). <i>Small</i> , 2016 , 12, 1034-1034	11	2
11	A living light bulb, ultrasensitive biodetection made easy. <i>Cell and Bioscience</i> , 2014 , 4, 34	9.8	1

10	Multiplexed In-cell Immunoassay for Same-sample Protein Expression Profiling. <i>Scientific Reports</i> , 2015 , 5, 13651	4.9	1
9	Contrast-enhanced photoacoustic imaging 2010 ,		1
8	Magneto-Endosomal Therapy for Cancer. <i>Advanced Healthcare Materials</i> , 2021 , e2101010	10.1	1
7	Nanoparticles: Trapping and Photoacoustic Detection of CTCs at the Single Cell per Milliliter Level with Magneto-Optical Coupled Nanoparticles (Small 12/2013). <i>Small</i> , 2013 , 9, 2045-2045	11	0
6	Eliminating the Animal Species Constraints in Antibody Selection for Multicolor Immunoassays. <i>Bioconjugate Chemistry</i> , 2017 , 28, 1499-1504	6.3	
5	Molecular imaging with multifunctional nanoparticles. <i>Clinical Chemistry</i> , 2013 , 59, 1532-3	5.5	
4	QD barcodes for biosensing and detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 6372-3	0.9	
3	Traceable siRNA delivery with quantum dots. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4093-4	0.9	
2	Semiconductor Quantum Dots as Multicolor and Ultrasensitive Biological Labels 494-506		
1	Cross-Platform DNA Encoding for Single-Cell Imaging of Gene Expression. <i>Angewandte Chemie</i> , 2016 , 128, 9121-9124	3.6	