

Rui Hu

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108
papers

4,701
citations

37
h-index

67
g-index

118
ext. papers

5,258
ext. citations

7.8
avg, IF

5.28
L-index

#	Paper	IF	Citations
108	A pilot study in non-human primates shows no adverse response to intravenous injection of quantum dots. <i>Nature Nanotechnology</i> , 2012 , 7, 453-8	28.7	361
107	Nanotoxicity assessment of quantum dots: from cellular to primate studies. <i>Chemical Society Reviews</i> , 2013 , 42, 1236-50	58.5	359
106	In vivo targeted cancer imaging, sentinel lymph node mapping and multi-channel imaging with biocompatible silicon nanocrystals. <i>ACS Nano</i> , 2011 , 5, 413-23	16.7	340
105	Functionalized quantum dots for biosensing and bioimaging and concerns on toxicity. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2786-99	9.5	244
104	Biocompatible magnetofluorescent probes: luminescent silicon quantum dots coupled with superparamagnetic iron(III) oxide. <i>ACS Nano</i> , 2010 , 4, 5131-8	16.7	215
103	Nanotechnology approach for drug addiction therapy: gene silencing using delivery of gold nanorod-siRNA nanoplex in dopaminergic neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5546-50	11.5	178
102	Assessing clinical prospects of silicon quantum dots: studies in mice and monkeys. <i>ACS Nano</i> , 2013 , 7, 7303-10	16.7	167
101	Aqueous-phase synthesis of highly luminescent CdTe/ZnTe core/shell quantum dots optimized for targeted bioimaging. <i>Small</i> , 2009 , 5, 1302-10	11	164
100	Super-resolution fluorescent materials: an insight into design and bioimaging applications. <i>Chemical Society Reviews</i> , 2016 , 45, 4651-67	58.5	139
99	Metallic Nanostructures as Localized Plasmon Resonance Enhanced Scattering Probes for Multiplex Dark Field Targeted Imaging of Cancer Cells. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2676-2684	3.8	136
98	Size dependence of Au NP-enhanced surface plasmon resonance based on differential phase measurement. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 1128-1133	8.5	127
97	Synthesis of ternary CuInS(2)/ZnS quantum dot bioconjugates and their applications for targeted cancer bioimaging. <i>Integrative Biology (United Kingdom)</i> , 2010 , 2, 121-9	3.7	119
96	Gold nanorod delivery of an ssRNA immune activator inhibits pandemic H1N1 influenza viral replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10172-7	11.5	91
95	Recent advances in surface plasmon resonance imaging: detection speed, sensitivity, and portability. <i>Nanophotonics</i> , 2017 , 6, 1017-1030	6.3	84
94	A Light-Driven Therapy of Pancreatic Adenocarcinoma Using Gold Nanorods-Based Nanocarriers for Co-Delivery of Doxorubicin and siRNA. <i>Theranostics</i> , 2015 , 5, 818-33	12.1	84
93	Tumor targeting and imaging in live animals with functionalized semiconductor quantum rods. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 710-9	9.5	80
92	Interfacial Passivation of the p-Doped Hole-Transporting Layer Using General Insulating Polymers for High-Performance Inverted Perovskite Solar Cells. <i>Small</i> , 2018 , 14, e1704007	11	77

91	Cytotoxicity assessment of functionalized CdSe, CdTe and InP quantum dots in two human cancer cell models. <i>Materials Science and Engineering C</i> , 2015 , 57, 222-31	8.3	75
90	Bandgap-Tunable Preparation of Smooth and Large Two-Dimensional Antimonene. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8668-8673	16.4	71
89	In vivo toxicity assessment of non-cadmium quantum dots in BALB/c mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 341-50	6	69
88	Nanoparticle enhanced surface plasmon resonance biosensing: application of gold nanorods. <i>Optics Express</i> , 2009 , 17, 19041-6	3.3	65
87	PEGylated Phospholipid Micelle-Encapsulated Near-Infrared PbS Quantum Dots for in vitro and in vivo Bioimaging. <i>Theranostics</i> , 2012 , 2, 723-33	12.1	57
86	Fabrication and Characterization of Small Optical Ridge Waveguides Based on SU-8 Polymer. <i>Journal of Lightwave Technology</i> , 2009 , 27, 4091-4096	4	54
85	Non-invasive tumor detection in small animals using novel functional Pluronic nanomicelles conjugated with anti-mesothelin antibody. <i>Nanoscale</i> , 2011 , 3, 1813-22	7.7	52
84	Additive controlled synthesis of gold nanorods (GNRs) for two-photon luminescence imaging of cancer cells. <i>Nanotechnology</i> , 2010 , 21, 285106	3.4	51
83	Functionalized near-infrared quantum dots for in vivo tumor vasculature imaging. <i>Nanotechnology</i> , 2010 , 21, 145105	3.4	51
82	Bioconjugated PLGA-4-arm-PEG branched polymeric nanoparticles as novel tumor targeting carriers. <i>Nanotechnology</i> , 2011 , 22, 165101	3.4	50
81	Optimizing the synthesis of red- and near-infrared CuInS ₂ and AgInS ₂ semiconductor nanocrystals for bioimaging. <i>Analyst, The</i> , 2013 , 138, 6144-53	5	49
80	Synthesis of cRGD-peptide conjugated near-infrared CdTe/ZnSe core-shell quantum dots for in vivo cancer targeting and imaging. <i>Chemical Communications</i> , 2010 , 46, 7136-8	5.8	49
79	Scattering and Absorption Cross-Section Spectral Measurements of Gold Nanorods in Water. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2853-2860	3.8	48
78	Functionalized gold nanorods for nanomedicine: Past, present and future. <i>Coordination Chemistry Reviews</i> , 2017 , 352, 15-66	23.2	47
77	Improvement of red light harvesting ability and open circuit voltage of Cu:NiOx based p-i-n planar perovskite solar cells boosted by cysteine enhanced interface contact. <i>Nano Energy</i> , 2018 , 45, 471-479	17.1	46
76	Gold nanorod--siRNA induces efficient in vivo gene silencing in the rat hippocampus. <i>Nanomedicine</i> , 2011 , 6, 617-30	5.6	45
75	Approaches and Challenges of Engineering Implantable Microelectromechanical Systems (MEMS) Drug Delivery Systems for in Vitro and in Vivo Applications. <i>Micromachines</i> , 2012 , 3, 615-631	3.3	42
74	Biocompatible PEGylated gold nanorods as colored contrast agents for targeted in vivo cancer applications. <i>Nanotechnology</i> , 2010 , 21, 315101	3.4	41

73	In vitro and In vivo Optical Imaging Using Water-Dispersible, Noncytotoxic, Luminescent, Silica-Coated Quantum Rods. <i>Chemistry of Materials</i> , 2010 , 22, 2261-2267	9.6	41
72	Bandgap-Tunable Preparation of Smooth and Large Two-Dimensional Antimonene. <i>Angewandte Chemie</i> , 2018 , 130, 8804-8809	3.6	38
71	Synthesis of luminescent near-infrared AgInS ₂ nanocrystals as optical probes for in vivo applications. <i>Theranostics</i> , 2013 , 3, 109-115	12.1	34
70	Enhanced photocatalytic performance of Ag/TiO ₂ nanohybrid sensitized by black phosphorus nanosheets in visible and near-infrared light. <i>Journal of Colloid and Interface Science</i> , 2019 , 534, 1-11	9.3	34
69	Biodegradable nanocapsules as siRNA carriers for mutant K-Ras gene silencing of human pancreatic carcinoma cells. <i>Small</i> , 2013 , 9, 2757-63	11	31
68	Aggregation-induced emission (AIE) dye loaded polymer nanoparticles for gene silencing in pancreatic cancer and their in vitro and in vivo biocompatibility evaluation. <i>Nano Research</i> , 2015 , 8, 1563-1576	10.3	30
67	Pancreatic cancer gene therapy using an siRNA-functionalized single walled carbon nanotubes (SWNTs) nanoplex. <i>Biomaterials Science</i> , 2014 , 2, 1244-1253	7.4	27
66	An electrochemically actuated MEMS device for individualized drug delivery: an in vitro study. <i>Advanced Healthcare Materials</i> , 2013 , 2, 1170-8	10.1	24
65	Moving towards individualized medicine with microfluidics technology. <i>RSC Advances</i> , 2014 , 4, 11499	3.7	23
64	Enhancing Type I Photochemistry in Photodynamic Therapy Under Near Infrared Light by Using Antennae-Fullerene Complexes. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018 , 93, 997-1003	4.6	23
63	Assembling Mn:ZnSe quantum dots-siRNA nanoplexes for gene silencing in tumor cells. <i>Biomaterials Science</i> , 2015 , 3, 192-202	7.4	22
62	Control of secondary phases and disorder degree in Cu ₂ ZnSnS ₄ films by sulfurization at varied subatmospheric pressures. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 109915	6.4	21
61	In-situ reduction and deposition of Ag nanoparticles on black phosphorus nanosheets co-loaded with graphene oxide as a broad spectrum photocatalyst for enhanced photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2018 , 769, 316-324	5.7	21
60	Revisiting the principles of preparing aqueous quantum dots for biological applications: the effects of surface ligands on the physicochemical properties of quantum dots. <i>RSC Advances</i> , 2014 , 4, 13805-13816	3.7	21
59	Label-free whole-colony imaging and metabolic analysis of metastatic pancreatic cancer by an autoregulating flexible optical system. <i>Theranostics</i> , 2020 , 10, 1849-1860	12.1	21
58	Biodegradable nanoparticle-mediated K-ras down regulation for pancreatic cancer gene therapy. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2163-2172	7.3	20
57	Large-area, near-infrared (IR) photonic crystals with colloidal gold nanoparticles embedding. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1242-6	9.5	20
56	Effect of Surface Coating of Gold Nanoparticles on Cytotoxicity and Cell Cycle Progression. <i>Nanomaterials</i> , 2018 , 8,	5.4	18

55	Fluorescence enhancement of small squaraine dye and its two-photon excited fluorescence in long-term near-infrared I&II bioimaging. <i>Optics Express</i> , 2019 , 27, 12360-12372	3.3	17
54	Raman mapping of MoS ₂ at Cu ₂ ZnSnS ₄ /Mo interface in thin film. <i>Solar Energy</i> , 2020 , 205, 154-160	6.8	15
53	Effects of Cd-based Quantum Dot Exposure on the Reproduction and Offspring of Kunming Mice over Multiple Generations. <i>Nanotheranostics</i> , 2017 , 1, 23-37	5.6	15
52	Interleukin-8 gene silencing on pancreatic cancer cells using biodegradable polymer nanoplexes. <i>Biomaterials Science</i> , 2014 , 2, 1007-1015	7.4	14
51	Rational design of multimodal and multifunctional InP quantum dot nanoprobe for cancer: in vitro and in vivo applications. <i>RSC Advances</i> , 2013 , 3, 8495	3.7	13
50	Optimizing the aqueous phase synthesis of CdTe quantum dots using mixed-ligands system and their applications for imaging of live cancer cells and tumors in vivo. <i>RSC Advances</i> , 2013 , 3, 8899	3.7	13
49	Prenatal chromosomal microarray analysis in 2466 fetuses with ultrasonographic soft markers: a prospective cohort study. <i>American Journal of Obstetrics and Gynecology</i> , 2021 , 224, 516.e1-516.e16	6.4	13
48	Toxicity assessment of phospholipid micelle-encapsulated cadmium-based quantum dots using Kunming mice. <i>RSC Advances</i> , 2013 , 3, 1768-1773	3.7	12
47	Nitric oxide release activated near-Infrared photothermal agent for synergistic tumor treatment. <i>Biomaterials</i> , 2021 , 276, 121017	15.6	12
46	Comparing Semiconductor Nanocrystal Toxicity in Pregnant Mice and Non-Human Primates. <i>Nanotheranostics</i> , 2019 , 3, 54-65	5.6	11
45	Cytotoxicity and immune response of CdSe/ZnS Quantum dots towards a murine macrophage cell line. <i>RSC Advances</i> , 2014 , 4, 5792	3.7	10
44	Formulation and intestinal absorption of naringenin loaded nanostructured lipid carrier and its inhibitory effects on nonalcoholic fatty liver disease. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 32, 102310	6	10
43	An all-graphene quantum dot Förster resonance energy transfer (FRET) probe for ratiometric detection of HE4 ovarian cancer biomarker. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 198, 111458	6	10
42	Highly stable organic photothermal agent based on near-infrared-II fluorophores for tumor treatment. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 37	9.4	10
41	An in-vivo evaluation of a MEMS drug delivery device using Kunming mice model. <i>Biomedical Microdevices</i> , 2015 , 17, 6	3.7	9
40	Synthesis of PEGylated gold nanorods (Au NRs) as absorption nanoprobe for near-infrared optical imaging. <i>RSC Advances</i> , 2013 , 3, 12280	3.7	8
39	Recent advances in nonlinear optics for bio-imaging applications. <i>Opto-Electronic Advances</i> , 2020 , 3, 200003-200003	6.3	8
38	A Small Polymeric Ridge Waveguide With a High Index Contrast. <i>Journal of Lightwave Technology</i> , 2008 , 26, 1964-1968	4	7

37	Nonlinear Spectral-Imaging Study of Second- and Third-Harmonic Enhancements by Surface-Lattice Resonances. <i>Advanced Optical Materials</i> , 2020 , 8, 1901981	8.1	6
36	Monitoring the endocytosis of bovine serum albumin based on the fluorescence lifetime of small squaraine dye in living cells. <i>Biomedical Optics Express</i> , 2020 , 11, 149-159	3.5	6
35	Gas-Liquid-Solid Triphase Interfacial Chemical Reactions Associated with Gas Wettability. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001636	4.6	6
34	Standalone Lab-on-a-Chip Systems toward the Evaluation of Therapeutic Biomaterials in Individualized Disease Treatment. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 1055-1066	5.5	5
33	High reliability nanosandwiched Pt/Ti multilayer electrode actuators for on-chip biomedical applications. <i>Analyst, The</i> , 2014 , 139, 407-15	5	5
32	Tunable multicolored hybrid metallic nanoparticles for live human cancer cell imaging. <i>Journal of Nanophotonics</i> , 2010 , 4, 041545	1.1	5
31	Fast denoising and lossless spectrum extraction in stimulated Raman scattering microscopy. <i>Journal of Biophotonics</i> , 2021 , 14, e202100080	3.1	5
30	Antireflection Enhancement by Composite Nanoporous Zeolite 3A-Carbon Thin Film. <i>Nanomaterials</i> , 2019 , 9,	5.4	5
29	In vivo mice brain microcirculation monitoring based on contrast-enhanced SD-OCT. <i>Journal of Innovative Optical Health Sciences</i> , 2019 , 12, 1950001	1.2	4
28	A Minimized SiO ₂ Waveguide With an Antiresonant Reflecting Structure for Large-Scale Optical Integrations. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 759-761	2.2	4
27	Nano-in-Micro Delivery System Prepared by Co-Axial Air Flow for Oral Delivery of Conjugated Linoleic Acid. <i>Marine Drugs</i> , 2018 , 17,	6	4
26	Deep learning autofluorescence-harmonic microscopy.. <i>Light: Science and Applications</i> , 2022 , 11, 76	16.7	4
25	The Changbai Alpine Shrub Tundra Will Be Replaced by Herbaceous Tundra under Global Climate Change. <i>Plants</i> , 2019 , 8,	4.5	3
24	One-pot synthesis of near-infrared type II quantum dots and their in vivo applications. <i>RSC Advances</i> , 2013 , 3, 11511	3.7	3
23	Factors affecting the biological response of Graphene. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 203, 111767	6	3
22	2-Methylimidazole-modulated UiO-66 as an effective photocatalyst to degrade Rhodamine B under visible light. <i>Journal of Materials Science</i> , 2021 , 56, 1577-1589	4.3	3
21	Human serum albumin gradient in serous ovarian cancer cryosections measured by fluorescence lifetime. <i>Biomedical Optics Express</i> , 2021 , 12, 1195-1204	3.5	3
20	A sustainable approach to individualized disease treatment: The Engineering of a multiple use MEMS drug delivery device 2013 ,		2

19	Dual-color immunofluorescent labeling with quantum dots of the diabetes-associated proteins aldose reductase and Toll-like receptor 4 in the kidneys of diabetic rats. <i>International Journal of Nanomedicine</i> , 2015 , 10, 3651-62	7.3	2
18	Cadmium-Free Quantum Dots for Biophotonic Imaging and Sensing 2014 , 1-27		2
17	Backward stimulated Bragg scattering in multiphoton active CdTe(x)Se(1-x) quantum dots system. <i>Journal of Chemical Physics</i> , 2009 , 131, 214301	3.9	2
16	Rapid and Targeted Photoactivation of Ca Channels Mediated by Squaraine To Regulate Intracellular and Intercellular Signaling Processes. <i>Analytical Chemistry</i> , 2020 , 92, 8497-8505	7.8	2
15	Biomedical application of graphitic carbon nitrides: tissue deposition, induction of reactive oxygen species (ROS) and cell viability in tumor cells. <i>Nanotechnology</i> , 2021 , 32,	3.4	2
14	Resonance-enhanced second harmonic generation via quantum dots integrated with Ag nanoarrays. <i>Optical Materials Express</i> , 2021 , 11, 3223	2.6	2
13	In vivo two-photon fluorescence lifetime imaging microendoscopy based on fiber-bundle.. <i>Optics Letters</i> , 2022 , 47, 2137-2140	3	2
12	Super-Multiplex Nonlinear Optical Imaging Unscrambles the Statistical Complexity of Cancer Subtypes and Tumor Microenvironment.. <i>Advanced Science</i> , 2021 , e2104379	13.6	2
11	Simultaneous acquisition of trajectory and fluorescence lifetime of moving single particles 2017 ,		1
10	Cadmium-Free Quantum Dots for Biophotonic Imaging and Sensing 2017 , 841-870		1
9	Four-Photon Absorption Properties of Mn-Doped ZnSe Quantum Dots. <i>IEEE Photonics Journal</i> , 2019 , 11, 1-9	1.8	1
8	In Vitro evaluation and monitoring of the expression level and localization of aldose reductase using functionalized quantum dots and EGFP. <i>Biotechnology and Bioprocess Engineering</i> , 2015 , 20, 800-806 ³¹		1
7	Multicolored cell imaging with bioconjugated fluorescent quantum dots 2013 ,		1
6	Laser-induced recoverable fluorescence quenching of perovskite films at a microscopic grain-scale. <i>Energy and Environmental Materials</i> ,	13	1
5	Investigation of apoptosis based on fluorescence lifetime imaging microscopy with a mitochondria-targeted viscosity probe.. <i>RSC Advances</i> , 2021 , 11, 38750-38758	3.7	0
4	Lattice dynamics, optical and thermal properties of quasi-two-dimensional anisotropic layered semimetal ZrTe2. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 3885-3892	6.8	0
3	Facile one-pot solvothermal preparation of two-dimensional Ni-based metal-organic framework microsheets as a high-performance supercapacitor material.. <i>RSC Advances</i> , 2021 , 11, 8362-8366	3.7	0
2	New advances in biomedical applications of multiphoton imaging technology. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 228702	0.6	

- 1 Stimulating Ca²⁺ photoactivation of nerve cells by near-infrared light. *Wuli Xuebao/Acta Physica Sinica*, **2020**, 69, 158701

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