Rui Tang

List of Publications by Year
in descending order

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51 papers	2,773 citations	218592 26 h-index	223716 46 g-index
55 all docs	55 docs citations	55 times ranked	4385 citing authors

#	Article	IF	Citations
1	Solutionâ^'Liquidâ^'Solid Growth of Semiconductor Nanowires. Inorganic Chemistry, 2006, 45, 7511-7521.	1.9	321
2	Novel Ultrasonically Assisted Templated Synthesis of Palladium and Silver Dendritic Nanostructures. Advanced Materials, 2001, 13, 1887.	11.1	235
3	Tunable Ultrasmall Visible-to-Extended Near-Infrared Emitting Silver Sulfide Quantum Dots for Integrin-Targeted Cancer Imaging. ACS Nano, 2015, 9, 220-230.	7.3	187
4	Near-Infrared pH-Activatable Fluorescent Probes for Imaging Primary and Metastatic Breast Tumors. Bioconjugate Chemistry, 2011, 22, 777-784.	1.8	179
5	The Trouble with TOPO; Identification of Adventitious Impurities Beneficial to the Growth of Cadmium Selenide Quantum Dots, Rods, and Wires. Nano Letters, 2008, 8, 3521-3524.	4.5	166
6	Size- and Shape-Controlled Synthesis of Bismuth Nanoparticles. Chemistry of Materials, 2008, 20, 3656-3662.	3.2	150
7	Spectroscopic Identification of Tri-n-octylphosphine Oxide (TOPO) Impurities and Elucidation of Their Roles in Cadmium Selenide Quantum-Wire Growth. Journal of the American Chemical Society, 2009, 131, 4983-4994.	6.6	140
8	Solution-Based Growth and Structural Characterization of Homo- and Heterobranched Semiconductor Nanowires. Journal of the American Chemical Society, 2007, 129, 12254-12262.	6.6	114
9	Ultrabright fluorescent nanoscale labels for the femtomolar detection of analytes with standard bioassays. Nature Biomedical Engineering, 2020, 4, 518-530.	11.6	110
10	Synthesis and Characterization of Ternary CuInS2 Nanorods via a Hydrothermal Route. Journal of Solid State Chemistry, 2001, 161, 179-183.	1.4	102
11	Induction of pH Sensitivity on the Fluorescence Lifetime of Quantum Dots by NIR Fluorescent Dyes. Journal of the American Chemical Society, 2012, 134, 4545-4548.	6.6	83
12	A mild solvothermal route to chalcopyrite quaternary semiconductor CuIn(SexS1 â^' x)2 nanocrystallites. Journal of Materials Chemistry, 2001, 11, 1417-1420.	6.7	79
13	Template-based synthesis of nanoscale Ag2E (E = S, Se) dendrites. Journal of Materials Chemistry, 2002, 12, 1148-1151.	6.7	79
14	Probing Distanceâ€Dependent Plasmonâ€Enhanced Nearâ€Infrared Fluorescence Using Polyelectrolyte Multilayers as Dielectric Spacers. Angewandte Chemie - International Edition, 2014, 53, 866-870.	7.2	75
15	Synchronous Photoluminescence Intermittency (Blinking) along Whole Semiconductor Quantum Wires. Nano Letters, 2007, 7, 3290-3295.	4.5	74
16	Benzene Thermal Conversion to Nanocrystalline Indium Nitride from Sulfide at Low Temperature. Inorganic Chemistry, 2003, 42, 107-111.	1.9	69
17	Near-infrared fluorescence goggle system with complementary metalâ€"oxideâ€"semiconductor imaging sensor and see-through display. Journal of Biomedical Optics, 2013, 18, 101303.	1.4	50
18	Ultrabright NIR fluorescent mesoporous silica nanoparticles. Journal of Materials Chemistry B, 2014, 2, 3107-3114.	2.9	45

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19	Native fluorescence spectroscopy reveals spectral differences among prostate cancer cell lines with different risk levels. Journal of Biomedical Optics, 2013, 18, 087002.	1.4	38
20	3D Printing of Poloxamer 407 Nanogel Discs and Their Applications in Adjuvant Ovarian Cancer Therapy. Molecular Pharmaceutics, 2019, 16, 552-560.	2.3	34
21	Augmented reality navigation in open surgery for hilar cholangiocarcinoma resection with hemihepatectomy using video-based in situ three-dimensional anatomical modeling. Medicine (United) Tj ETQq1 1 0.784314 rgBT /Over	0.7	33
22	Protonation and Trapping of a Small pH-Sensitive Near-Infrared Fluorescent Molecule in the Acidic Tumor Environment Delineate Diverse Tumors in Vivo. Molecular Pharmaceutics, 2015, 12, 4237-4246.	2.3	31
23	Selective imaging of solid tumours via the calcium-dependent high-affinity binding of a cyclic octapeptide to phosphorylated Annexin A2. Nature Biomedical Engineering, 2020, 4, 298-313.	11.6	31
24	Immediate Repair of Major Abdominal Wall Defect After Extensive Tumor Excision in Patients With Abdominal Wall Neoplasm: A Prospective Review of 27 Cases. Annals of Surgical Oncology, 2009, 16, 2895-2907.	0.7	30
25	Synthesis of dye conjugates to visualize the cancer cells using fluorescence microscopy. Applied Optics, 2014, 53, 2345.	0.9	29
26	Shape-Dependent Biodistribution of Biocompatible Silk Microcapsules. ACS Applied Materials & Interfaces, 2019, 11, 5499-5508.	4.0	27
27	Osteotropic Radiolabeled Nanophotosensitizer for Imaging and Treating Multiple Myeloma. ACS Nano, 2020, 14, 4255-4264.	7.3	26
28	Na+-H+ exchanger 1 determines atherosclerotic lesion acidification and promotes atherogenesis. Nature Communications, 2019, 10, 3978.	5.8	25
29	Exciton localization and migration in individual CdSe quantum wires at low temperatures. Physical Review B, 2009, 80, .	1.1	23
30	Pyrazoleâ€substituted Nearâ€infrared Cyanine Dyes Exhibit <scp>pH</scp>â€dependent Fluorescence Lifetime Properties. Photochemistry and Photobiology, 2013, 89, 326-331.	1.3	23
31	All-near-infrared multiphoton microscopy interrogates intact tissues at deeper imaging depths than conventional single- and two-photon near-infrared excitation microscopes. Journal of Biomedical Optics, 2013, 18, 106012.	1.4	22
32	Proof-of-Concept of Polymeric Sol-Gels in Multi-Drug Delivery and Intraoperative Image-Guided Surgery for Peritoneal Ovarian Cancer. Pharmaceutical Research, 2016, 33, 2298-2306.	1.7	17
33	Sulforaphane activates anti-inflammatory microglia, modulating stress resilience associated with BDNF transcription. Acta Pharmacologica Sinica, 2022, 43, 829-839.	2.8	17
34	Electrospray Functionalization of Titanium Dioxide Nanoparticles with Transferrin for Cerenkov Radiation Induced Cancer Therapy. ACS Applied Bio Materials, 2019, 2, 1141-1147.	2.3	16
35	Bound 1D Excitons in Single CdSe Quantum Wires. Journal of Physical Chemistry Letters, 2012, 3, 2627-2632.	2.1	14
36	Nanophotosensitive drugs for light-based cancer therapy: what does the future hold?. Nanomedicine, 2017, 12, 1101-1105.	1.7	14

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37	The impact of hyperthermic chemotherapy on human gastric cancer cell lines: preliminary results. Oncology Reports, 2006, 16, 631-41.	1.2	10
38	Dual fluorescent molecular substrates selectively report the activation, sustainability and reversibility of cellular PKB/Akt activity. Scientific Reports, 2013, 3, 1697.	1.6	9
39	Reduced Nhe1 (Na ⁺ -H ⁺ Exchanger-1) Function Protects ApoE-Deficient Mice From Ang II (Angiotensin II)â€“Induced Abdominal Aortic Aneurysms. Hypertension, 2020, 76, 87-100.	1.3	7
40	Novel Injury Site Targeted Fusion Protein Comprising Annexin V and Kunitz Inhibitor Domains Ameliorates Ischemia-Reperfusion Injury and Promotes Survival of Ischemic Rat Abdominal Skin Flaps. Annals of Plastic Surgery, 2017, 78, S129-S134.	0.5	6
41	Perfusionâ€based fluorescence imaging method delineates diverse organs and identifies multifocal tumors using generic nearâ€infrared molecular probes. Journal of Biophotonics, 2018, 11, e201700232.	1.1	6
42	Trafficking of a Single Photosensitizing Molecule to Different Intracellular Organelles Demonstrates Effective Hydroxyl Radical-Mediated Photodynamic Therapy in the Endoplasmic Reticulum. Bioconjugate Chemistry, 2019, 30, 1451-1458.	1.8	6
43	Effects of core titanium crystal dimension and crystal phase on ROS generation and tumour accumulation of transferrin coated titanium dioxide nanoaggregates. RSC Advances, 2020, 10, 23759-23766.	1.7	6
44	Bolus injections of novel thrombogenic site-targeted fusion proteins comprising annexin-V and Kunitz protease inhibitors attenuate intimal hyperplasia after balloon angioplasty. International Journal of Cardiology, 2017, 240, 339-346.	0.8	4
45	Ultrasmall visible-to-near-infrared emitting silver-sulfide quantum dots for cancer detection and imaging. , 2018, , .		2
46	Tryptophan fluorescence and machine learning to study the aggressiveness of prostate cancer cell lines: A pilot study. , 2022, , 173-183.		1
47	Analysis of Stable Chelate-free Gadolinium Loaded Titanium Dioxide Nanoparticles for MRI-Guided Radionuclide Stimulated Cancer Treatment. Current Analytical Chemistry, 2022, 18, 826-835.	0.6	1
48	Benzene Thermal Conversion to Nanocrystalline Indium Nitride from Sulfide at Low Temperature.. ChemInform, 2003, 34, no.	0.1	0
49	Synthesize dye-bioconjugates to visualize cancer cells using fluorescence microscopy. Proceedings of SPIE, 2013, , .	0.8	0
50	Investigation of native fluorescence spectral difference among prostate cancer cell lines with different risk levels. , 2013, , .		0
51	Non-invasive monitoring of arthritis treatment response via targeting of tyrosine-phosphorylated annexin A2 in chondrocytes. Arthritis Research and Therapy, 2021, 23, 265.	1.6	0