

Takashi Jin

List of Publications by Year in descending order

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108
papers

3,458
citations

117453

34
h-index

149479

56
g-index

114
all docs

114
docs citations

114
times ranked

4876
citing authors

#	ARTICLE	IF	CITATIONS
1	Dose-dependent in-vivo toxicity assessment of silver nanoparticle in Wistar rats. <i>Toxicology Mechanisms and Methods</i> , 2011, 21, 13-24.	1.3	225
2	Fluorescent Platinum Nanoclusters: Synthesis, Purification, Characterization, and Application to Bioimaging. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 431-435.	7.2	220
3	A quantum dot-based ratiometric pH sensor. <i>Chemical Communications</i> , 2010, 46, 2408.	2.2	142
4	A fluorescent calix[4]arene as an intramolecular excimer-forming Na ⁺ sensor in nonaqueous solution. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 499.	2.0	119
5	Aqueous synthesis of glutathione-coated PbS quantum dots with tunable emission for non-invasive fluorescence imaging in the second near-infrared biological window (1000–1400 nm). <i>Chemical Communications</i> , 2013, 49, 7584.	2.2	117
6	Expanded palette of Nano-lanterns for real-time multicolor luminescence imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4352-4356.	3.3	110
7	Control of the Optical Properties of Quantum Dots by Surface Coating with Calix[n]arene Carboxylic Acids. <i>Journal of the American Chemical Society</i> , 2006, 128, 9288-9289.	6.6	107
8	Multilayered, core/shell nanoprobe based on magnetic ferric oxide particles and quantum dots for multimodality imaging of breast cancer tumors. <i>Biomaterials</i> , 2012, 33, 8486-8494.	5.7	105
9	Amphiphilic p-sulfonatocalix[4]arene-coated CdSe/ZnS quantum dots for the optical detection of the neurotransmitter acetylcholine. <i>Chemical Communications</i> , 2005, , 4300.	2.2	101
10	Gd ³⁺ -functionalized near-infrared quantum dots for in vivo dual modal (fluorescence/magnetic) T ₁ ETQq0 0 0 rgBT (Overlock 10 Tf 50 38	2.2	96
11	Preparation and Characterization of Highly Fluorescent, Glutathione-coated Near Infrared Quantum Dots for in Vivo Fluorescence Imaging. <i>International Journal of Molecular Sciences</i> , 2008, 9, 2044-2061.	1.8	89
12	Importance of Sialic Acid Residues Illuminated by Live Animal Imaging Using Phosphorylcholine Self-Assembled Monolayer-Coated Quantum Dots. <i>Journal of the American Chemical Society</i> , 2011, 133, 12507-12517.	6.6	83
13	Fluorescence microscopy for simultaneous observation of 3D orientation and movement and its application to quantum rod-tagged myosin V. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5294-5298.	3.3	77
14	Synthesis and optical properties of emission-tunable PbS/CdS core–shell quantum dots for in vivo fluorescence imaging in the second near-infrared window. <i>RSC Advances</i> , 2014, 4, 41164-41171.	1.7	76
15	Recombinant protein (EGFP-Protein C)-coated PbS quantum dots for <i>in vitro</i> and <i>in vivo</i> dual fluorescence (visible and second-NIR) imaging of breast tumors. <i>Nanoscale</i> , 2015, 7, 5115-5119.	2.8	71
16	Synthesis and Characterization of Anti-HER2 Antibody Conjugated CdSe/CdZnS Quantum Dots for Fluorescence Imaging of Breast Cancer Cells. <i>Sensors</i> , 2009, 9, 9332-9354.	2.1	68
17	Synthetic Transmembrane Channels: Functional Characterization Using Solubility Calculations, Transport Studies, and Substituent Effects. <i>Journal of the American Chemical Society</i> , 1997, 119, 5540-5549.	6.6	61
18	A new Na ⁺ sensor based on intramolecular fluorescence energy transfer derived from calix[4]arene. <i>Chemical Communications</i> , 1999, , 2491-2492.	2.2	58

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19	The suppression of age-related accumulation of lipid peroxides in rat brain by administration of Rooibos tea (<i>Aspalathus linearis</i>). <i>Neuroscience Letters</i> , 1995, 196, 85-88.	1.0	57
20	A platform of BRET-FRET hybrid biosensors for optogenetics, chemical screening, and in vivo imaging. <i>Scientific Reports</i> , 2018, 8, 8984.	1.6	57
21	Real-Time Nanoscopy by Using Blinking Enhanced Quantum Dots. <i>Biophysical Journal</i> , 2010, 99, L50-L52.	0.2	54
22	Calixarene-coated water-soluble CdSe/ZnS semiconductor quantum dots that are highly fluorescent and stable in aqueous solution. <i>Chemical Communications</i> , 2005, , 2829.	2.2	53
23	Bio-distribution and toxicity assessment of intravenously injected anti-HER2 antibody conjugated CdSe/ZnS quantum dots in Wistar rats. <i>International Journal of Nanomedicine</i> , 2011, 6, 463.	3.3	52
24	Antibody-ProteinA conjugated quantum dots for multiplexed imaging of surface receptors in living cells. <i>Molecular BioSystems</i> , 2010, 6, 2325.	2.9	48
25	Bioluminescence resonance energy transfer coupled near-infrared quantum dots using GST-tagged luciferase for in vivo imaging. <i>Chemical Communications</i> , 2013, 49, 228-230.	2.2	46
26	Near-Infrared Emitting PbS Quantum Dots for in Vivo Fluorescence Imaging of the Thrombotic State in Septic Mouse Brain. <i>Molecules</i> , 2016, 21, 1080.	1.7	46
27	Planar Bilayer Conductance and Fluorescence Studies Confirm the Function and Location of a Synthetic, Sodium-Ion-Conducting Channel in a Phospholipid Bilayer Membrane. <i>Journal of the American Chemical Society</i> , 1997, 119, 9061-9062.	6.6	45
28	Near-Infrared Fluorescence Detection of Acetylcholine in Aqueous Solution Using a Complex of Rhodamine 800 and p-Sulfonato-calix[8]arene. <i>Sensors</i> , 2010, 10, 2438-2449.	2.1	43
29	Synthesis and optical resolution of a fluorescent chiral calix[4]arene with two pyrene moieties forming an intramolecular excimer. <i>Chemical Communications</i> , 1998, , 1357-1358.	2.2	42
30	Coupling Mechanism of a GPCR and a Heterotrimeric G Protein During Chemoattractant Gradient Sensing in <i>Dictyostelium</i> . <i>Science Signaling</i> , 2010, 3, ra71.	1.6	40
31	A short-wavelength infrared emitting multimodal probe for non-invasive visualization of phagocyte cell migration in living mice. <i>Chemical Communications</i> , 2014, 50, 14356-14359.	2.2	39
32	Title is missing!. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2003, 45, 195-201.	1.6	36
33	Enhancement of aqueous stability and fluorescence brightness of indocyanine green using small calix[4]arene micelles for near-infrared fluorescence imaging. <i>MedChemComm</i> , 2016, 7, 623-631.	3.5	34
34	Applications of Highly Bright PbS Quantum Dots to Non-Invasive Near-Infrared Fluorescence Imaging in the Second Optical Window. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, R3138-R3145.	0.9	34
35	Photoirradiated and .gamma.-ray-irradiated reactions of manganese(III, IV, V) tetraphenylporphyrins in 2-methyltetrahydrofuran. Reactions of azidomanganese(III) porphyrin. <i>Inorganic Chemistry</i> , 1987, 26, 1280-1285.	1.9	33
36	Selective Na ⁺ Transport through Phospholipid Bilayer Membrane by a Synthetic Calix[4]arene Carrier. <i>Langmuir</i> , 1996, 12, 2684-2689.	1.6	33

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37	Stable DHLA-PEG capped PbS quantum dots: from synthesis to near-infrared biomedical imaging. <i>Journal of Materials Chemistry B</i> , 2018, 6, 550-555.	2.9	29
38	Synthesis of green-emitting Pt ₈ nanoclusters for biomedical imaging by pre-equilibrated Pt/PAMAM (G4-OH) and mild reduction. <i>Optical Materials Express</i> , 2013, 3, 157.	1.6	28
39	Conductance Change in Phospholipid Bilayer Membrane by an Electroneutral Ionophore, Monensin. <i>Biochemistry</i> , 1995, 34, 3455-3460.	1.2	26
40	Histochemical analyses and quantum dot imaging of microvascular blood flow with pulmonary edema in living mouse lungs by <i>in vivo</i> cryotechnique. <i>Histochemistry and Cell Biology</i> , 2012, 137, 137-151.	0.8	26
41	Bovine serum albumin-coated quantum dots as a cytoplasmic viscosity probe in a single living cell. <i>Analytical Methods</i> , 2012, 4, 1903.	1.3	25
42	Reconstructing 3D deformation dynamics for curved epithelial sheet morphogenesis from positional data of sparsely-labeled cells. <i>Nature Communications</i> , 2017, 8, 15.	5.8	25
43	Rotational diffusion measurements using polarization-dependent fluorescence correlation spectroscopy based on superconducting nanowire single-photon detector. <i>Optics Express</i> , 2015, 23, 32633.	1.7	24
44	Bioluminescence Resonance Energy Transfer (BRET)-coupled Annexin-V-functionalized Quantum Dots for Near-Infrared Optical Detection of Apoptotic Cells. <i>ChemBioChem</i> , 2017, 18, 2231-2235.	1.3	24
45	Critical Review "Recent Progress in NIR Fluorophores Emitting over 1000 nm for Bioimaging. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, R9-R13.	0.9	23
46	Shortwave-Infrared Fluorescent Molecular Imaging Probes Based on β -Conjugation Extended Indocyanine Green. <i>Bioconjugate Chemistry</i> , 2021, 32, 1541-1547.	1.8	22
47	Compact Halo-Ligand-Conjugated Quantum Dots for Multicolored Single-Molecule Imaging of Overcrowding GPCR Proteins on Cell Membranes. <i>Small</i> , 2015, 11, 1396-1401.	5.2	21
48	Critical Review "Water-Soluble Near-Infrared Fluorophores Emitting over 1000 nm and Their Application to <i>In Vivo</i> Imaging in the Second Optical Window (1000-1400 nm). <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R3093-R3101.	0.9	20
49	Near-infrared fluorescent protein and bioluminescence-based probes for high-resolution <i>in vivo</i> optical imaging. <i>Materials Advances</i> , 2020, 1, 967-987.	2.6	20
50	PHOTOREDUCTION OF MANGANESE(III), IRON(III), COBALT(III), AND MOLYBDENUM(V) TETRAPHENYLPORPHYRINS IN 2-METHYLTETRAHYDROFURAN. <i>Chemistry Letters</i> , 1985, 14, 847-850.	0.7	19
51	Dissociation kinetics of calixarene ester-sodium(1+) complexes: effect of the sodium ion exchange reaction on sodium-23 longitudinal magnetization recovery curves and proton NMR spectra. <i>The Journal of Physical Chemistry</i> , 1991, 95, 2601-2606.	2.9	19
52	Ion transport activity of calix[n]arene (n=4, 5, 6, 7, 8) esters toward alkali-metal cations in a phospholipid bilayer membrane. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 3135-3140.	1.7	19
53	Visualization of microvascular blood flow in mouse kidney and spleen by quantum dot injection with <i>in vivo</i> cryotechnique. <i>Microvascular Research</i> , 2010, 80, 491-498.	1.1	19
54	Recombinant Protein (Luciferase-IgG Binding Domain) Conjugated Quantum Dots for BRET-Coupled Near-Infrared Imaging of Epidermal Growth Factor Receptors. <i>Bioconjugate Chemistry</i> , 2018, 29, 1466-1474.	1.8	19

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55	Interfacial Recognition of Acetylcholine by an Amphiphilic p-Sulfonatocalix[8]arene Derivative Incorporated into Dimyristoyl Phosphatidylcholine Vesicles. <i>Sensors</i> , 2008, 8, 6777-6790.	2.1	18
56	Immunoglobulin binding (B1) domain mediated antibody conjugation to quantum dots for in vitro and in vivo molecular imaging. <i>Chemical Communications</i> , 2017, 53, 9450-9453.	2.2	17
57	Photocontrol of Na ⁺ transport across a phospholipid bilayer containing a bisanthroylcalix[4]arene carrier. <i>Chemical Communications</i> , 2000, , 1379-1380.	2.2	16
58	Four-Dimensional Spatial Nanometry of Single Particles in Living Cells Using Polarized Quantum Rods. <i>Biophysical Journal</i> , 2013, 105, 555-564.	0.2	16
59	Preparation and Characterization of Thiocalix[4]arene Coated Water-Soluble CdSe/ZnS Quantum Dots as a Fluorescent Probe for Cu ²⁺ Ions. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007, 10, 473-479.	0.6	14
60	Calixarene-based photoresponsive ion carrier for the control of Na ⁺ flux across a lipid bilayer membrane by visible light. <i>Materials Letters</i> , 2007, 61, 805-808.	1.3	14
61	Shortwave-infrared (SWIR) fluorescence molecular imaging using indocyanine green-antibody conjugates for the optical diagnostics of cancerous tumours. <i>RSC Advances</i> , 2020, 10, 28171-28179.	1.7	14
62	Nano-scale measurement of biomolecules by optical microscopy and semiconductor nanoparticles. <i>Frontiers in Physiology</i> , 2014, 5, 273.	1.3	12
63	Imaging of thrombosis and microcirculation in mouse lungs of initial melanoma metastasis with in vivo cryotechnique. <i>Microvascular Research</i> , 2014, 91, 73-83.	1.1	12
64	Raster image cross-correlation analysis for spatiotemporal visualization of intracellular degradation activities against exogenous DNAs. <i>Scientific Reports</i> , 2015, 5, 14428.	1.6	12
65	Non-radiative exciton recombination through excitation energy transfer in quantum dot clusters. <i>Journal of Luminescence</i> , 2011, 131, 539-542.	1.5	11
66	BRET based dual-colour (visible/near-infrared) molecular imaging using a quantum dot/EGFP-luciferase conjugate. <i>RSC Advances</i> , 2019, 9, 34964-34971.	1.7	11
67	Optical and ESR studies for the reaction of molybdenum tetraphenylporphyrins in .gamma.-ray irradiated 2-methyltetrahydrofuran. <i>Inorganic Chemistry</i> , 1984, 23, 3752-3755.	1.9	9
68	An aluminium-27 nuclear magnetic resonance study of chemical exchange between different polyatomic species in butylpyridinium chloride-AlCl ₃ melts. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 175.	1.0	9
69	Membrane Partitioning and Translocation of Hydrophobic Phosphonium Homologues: A Thermodynamic Analysis by Immobilized Liposome Chromatography. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7528-7534.	1.2	9
70	Membrane transport of neurotransmitter acetylcholine and related compounds across a phospholipid bilayer by a calix[6]arene ester. <i>Chemical Communications</i> , 1999, , 2129-2130.	2.2	7
71	Quantum Dot-Loaded Liposomes to Evaluate the Behavior of Drug Carriers after Oral Administration. <i>Journal of Pharmaceutics</i> , 2013, 2013, 1-6.	4.6	7
72	Fluorescent, Recombinant Protein-Conjugated, Near-Infrared-Emitting Quantum Dots for in Vitro and in Vivo Dual-Color Molecular Imaging. <i>ChemBioChem</i> , 2019, 20, 568-575.	1.3	7

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73	Kinetics and mechanism of the dissociation of a sodium-calix[4]arene ester complex in nonaqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 1401-1406.	1.3	6
74	Compact and stable SNAP ligand-conjugated quantum dots as a fluorescent probe for single-molecule imaging of dynein motor protein. <i>Chemical Communications</i> , 2015, 51, 14836-14839.	2.2	6
75	In Vitro and In Vivo Fluorescence Imaging of Antibody-Drug Conjugate-Induced Tumor Apoptosis Using Annexin V-EGFP Conjugated Quantum Dots. <i>ACS Omega</i> , 2022, 7, 2105-2113.	1.6	6
76	Magnetic Resonance Imaging of Young and Aged Rat Brains under a Magnetic Field of 7.05 T.. <i>Journal of Veterinary Medical Science</i> , 1994, 56, 933-938.	0.3	5
77	Reactions and Rate Constants between Hydroxyl Radicals and the Dimer and Monomer of Spin Trap 2-Methyl-2-nitrosopropane Determined by the Pulse Radiolysis Method. <i>The Journal of Physical Chemistry</i> , 1995, 99, 14078-14082.	2.9	5
78	An aluminium-27 nuclear magnetic resonance study of ligand exchange. Kinetic and equilibrium properties. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1988, 84, 3015.	1.0	4
79	Monte Carlo Modeling of Shortwave-Infrared Fluorescence Photon Migration in Voxelized Media for the Detection of Breast Cancer. <i>Diagnostics</i> , 2020, 10, 961.	1.3	4
80	Dual-colour (near-infrared/visible) emitting annexin V for fluorescence imaging of tumour cell apoptosis <i>in vitro</i> and <i>in vivo</i> . <i>RSC Advances</i> , 2020, 10, 38244-38250.	1.7	4
81	Analysis of excitation energy transfer in quantum dot clusters in the presence of nonluminescent dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 54-57.	0.8	3
82	Monte Carlo Evaluation of <i>In Vivo</i> Neuroimaging Using Quantum Dots with Fluorescence in the Second Window of Near Infrared Region. <i>Advanced Biomedical Engineering</i> , 2019, 8, 105-109.	0.4	3
83	Monte Carlo Modeling of Near-infrared Fluorescence Photon Migration in Breast Tissue for Tumor Prediction. <i>Advanced Biomedical Engineering</i> , 2020, 9, 100-105.	0.4	3
84	Effect of Ligand-Exchange Reaction on Longitudinal Magnetization Recovery in Aqueous-Al(III) NMR. <i>Chemistry Letters</i> , 1987, 16, 1179-1182.	0.7	2
85	Neurochemistry in the Pathophysiology of Septic Encephalopathy. , 2012, , .		2
86	Optimal focus evaluated using Monte Carlo simulation in non-invasive neuroimaging in the second near-infrared window. <i>MethodsX</i> , 2019, 6, 2367-2373.	0.7	2
87	Near infrared imaging of intrinsic signals in cortical spreading depression observed through the intact scalp in hairless mice. <i>Neuroscience Letters</i> , 2019, 701, 213-217.	1.0	2
88	Oxygen-Sensitive Quantum Dots for Possible Nanoscale Oxygen Imaging in Cultured Cells. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 379-383.	0.8	2
89	The Effect of Cation on Kinetic Properties of Chloroaluminate Anions. ²⁷ Al NMR in Dialkylimidazolium Chloride-AlCl ₃ and LiCl-AlCl ₃ Melts. <i>Chemistry Letters</i> , 1992, 21, 1651-1654.	0.7	1
90	Non-Invasive Near-Infrared Fluorescence Imaging in the Second Optical Window. <i>Nippon Laser Igakkaishi</i> , 2015, 36, 195-200.	0.0	1

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91	Investigation of pH-dependent photophysical properties of quantum nanocrystals by fluorescence correlation spectroscopy. Optics Express, 2017, 25, 1435.	1.7	1
92	Bioluminescence Resonance Energy Transfer (BRET) Coupled Near-Infrared Imaging of Apoptotic Cells. Methods in Molecular Biology, 2020, 2081, 15-27.	0.4	1
93	BRET-Based Dual-Color (Visible/Near-Infrared) Molecular Imaging Using a Quantum Dot/EGFP-Luciferase Conjugate. Methods in Molecular Biology, 2022, , 47-59.	0.4	1
94	Magnesium-25 and phosphorus-31 nuclear magnetic resonance in ATP+Mg2+ solutions - Dominans of site binding effects.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1988, 1988, 648-653.	0.1	0
95	Selective transport of potassium ions across a planar phospholipid bilayer by a calix[4]arene-crown-5 as a synthetic carrier. Perkin Transactions II RSC, 2002, , 151-154.	1.1	0
96	3P-271 Synthesis of size-controlled fluorescent nanoparticles to improve cellular uptake(Miscellaneous topics,The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2009, 49, S196.	0.0	0
97	1P-260 Preparation of Highly Fluorescent Au Nanoclusters and Application for Biomolecular Imaging(Bioimaging, The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2009, 49, S103.	0.0	0
98	3P336 Superresolution imaging by using fluorescent fluctuation in quantum dots(Bioimaging,The 48th) Tj ETQq0 0.0 rgBT /Overlock 10	0.0	0
99	3P329 Characterization of Fluorescence Properties of a Blue Emitting Au Nanocluster(Bioimaging,The) Tj ETQq1 1 0.784314 rgBT /Ov	0.0	0
100	The Use of Quantum Dot Blinking to Optimize of 3D Nanoscopy. Biophysical Journal, 2010, 98, 183a.	0.2	0
101	Simultaneous Observation of the Three-Dimensional Orientation and Position of a Single Fluorescent Probe. Biophysical Journal, 2012, 102, 721a.	0.2	0
102	Near-infrared fluorescent nanoprobes for non-invasive multimodal tissue imaging. , 2014, , .		0
103	C5-P-03An Expanded Color Palette of Nano-lanterns, the Super-brilliant Luminescent Proteins for Multicolor, Real-time Bioluminescence Imaging. Microscopy (Oxford, England), 2015, 64, i140.1-i140.	0.7	0
104	Imaging: Compact Haloâ€Ligandâ€Conjugated Quantum Dots for Multicolored Singleâ€Molecule Imaging of Overcrowding GPCR Proteins on Cell Membranes (Small 12/2015). Small, 2015, 11, 1358-1358.	5.2	0
105	In Vivo Imaging of Septic Encephalopathy. , 2017, , .		0
106	Fluorescent Gold Nanoclusters for In Vivo Shortwave-Infrared Imaging. ECS Journal of Solid State Science and Technology, 2021, 10, 096012.	0.9	0
107	Synthesis and Surface Modification of Fluorescent Semiconductor Nanoparticles, and Their Use for Biomedical Applications. Journal of the Society of Powder Technology, Japan, 2010, 47, 646-655.	0.0	0
108	NIR Fluorescent Nanoprobes and Techniques for Brain Imaging. , 2020, , 349-374.		0