

Takashi Jin

List of Publications by Year in Descending Order

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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.

104
papers

2,955
citations

33
h-index

52
g-index

114
ext. papers

3,190
ext. citations

4.9
avg, IF

5.3
L-index

#	Paper	IF	Citations
104	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	3.9	0
103	BRET-Based Dual-Color (Visible/Near-Infrared) Molecular Imaging Using a Quantum Dot/EGFP-Luciferase Conjugate. <i>Methods in Molecular Biology</i> , 2022 , 47-59	1.4	
102	Shortwave-Infrared Fluorescent Molecular Imaging Probes Based on π -Conjugation Extended Indocyanine Green. <i>Bioconjugate Chemistry</i> , 2021 , 32, 1541-1547	6.3	7
101	Fluorescent Gold Nanoclusters for In Vivo Shortwave-Infrared Imaging. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 096012	2	
100	Near-infrared fluorescent protein and bioluminescence-based probes for high-resolution in vivo optical imaging. <i>Materials Advances</i> , 2020 , 1, 967-987	3.3	7
99	Monte Carlo Modeling of Near-infrared Fluorescence Photon Migration in Breast Tissue for Tumor Prediction. <i>Advanced Biomedical Engineering</i> , 2020 , 9, 100-105	0.7	1
98	NIR Fluorescent Nanoprobes and Techniques for Brain Imaging 2020 , 349-374		
97	Bioluminescence Resonance Energy Transfer (BRET) Coupled Near-Infrared Imaging of Apoptotic Cells. <i>Methods in Molecular Biology</i> , 2020 , 2081, 15-27	1.4	1
96	Monte Carlo Modeling of Shortwave-Infrared Fluorescence Photon Migration in Voxelized Media for the Detection of Breast Cancer. <i>Diagnostics</i> , 2020 , 10,	3.8	3
95	Dual-colour (near-infrared/visible) emitting annexin V for fluorescence imaging of tumour cell apoptosis and .. <i>RSC Advances</i> , 2020 , 10, 38244-38250	3.7	1
94	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	3.7	8
93	Critical ReviewRecent Progress in NIR Fluorophores Emitting over 1000 nm for Bioimaging. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, R9-R13	2	20
92	Monte Carlo Evaluation of In Vivo Neuroimaging Using Quantum Dots with Fluorescence in the Second Window of Near Infrared Region. <i>Advanced Biomedical Engineering</i> , 2019 , 8, 105-109	0.7	3
91	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	3.3	2
90	Optimal focus evaluated using Monte Carlo simulation in non-invasive neuroimaging in the second near-infrared window. <i>MethodsX</i> , 2019 , 6, 2367-2373	1.9	2
89	BRET based dual-colour (visible/near-infrared) molecular imaging using a quantum dot/EGFP-luciferase conjugate.. <i>RSC Advances</i> , 2019 , 9, 34964-34971	3.7	6
88	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	3.8	6

87	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	6.3	15
86	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	7.3	24
85	A platform of BRET-FRET hybrid biosensors for optogenetics, chemical screening, and in vivo imaging. <i>Scientific Reports</i> , 2018 , 8, 8984	4.9	34
84	Critical Review Water-Soluble Near-Infrared Fluorophores Emitting over 1000 nm and Their Application to In Vivo Imaging in the Second Optical Window (1000-1400 nm). <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, R3093-R3101	2	17
83	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	3.8	18
82	Reconstructing 3D deformation dynamics for curved epithelial sheet morphogenesis from positional data of sparsely-labeled cells. <i>Nature Communications</i> , 2017 , 8, 15	17.4	12
81	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	5.8	14
80	Investigation of pH-dependent photophysical properties of quantum nanocrystals by fluorescence correlation spectroscopy. <i>Optics Express</i> , 2017 , 25, 1435-1443	3.3	1
79	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	5	23
78	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 ² R3145 ²⁷		
77	Near-Infrared Emitting PbS Quantum Dots for in Vivo Fluorescence Imaging of the Thrombotic State in Septic Mouse Brain. <i>Molecules</i> , 2016 , 21,	4.8	34
76	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, 4352-6	11.5	89
75	Imaging: Compact Halo-Ligand-Conjugated Quantum Dots for Multicolored Single-Molecule Imaging of Overcrowding GPCR Proteins on Cell Membranes (Small 12/2015). <i>Small</i> , 2015 , 11, 1358-1358 ¹¹		
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, 14836-9	5.8	6
73	Compact halo-ligand-conjugated quantum dots for multicolored single-molecule imaging of overcrowding GPCR proteins on cell membranes. <i>Small</i> , 2015 , 11, 1396-401	11	17
72	Recombinant protein (EGFP-Protein G)-coated PbS quantum dots for in vitro and in vivo dual fluorescence (visible and second-NIR) imaging of breast tumors. <i>Nanoscale</i> , 2015 , 7, 5115-9	7.7	63
71	Rotational diffusion measurements using polarization-dependent fluorescence correlation spectroscopy based on superconducting nanowire single-photon detector. <i>Optics Express</i> , 2015 , 23, 32633-42	3.3	19
70	Raster image cross-correlation analysis for spatiotemporal visualization of intracellular degradation activities against exogenous DNAs. <i>Scientific Reports</i> , 2015 , 5, 14428	4.9	7

69	Non-Invasive Near-Infrared Fluorescence Imaging in the Second Optical Window. <i>Nippon Laser Igakkaishi</i> , 2015 , 36, 195-200	0	
68	C5-P-03An Expanded Color Palette of Nano-lanterns, the Super-brilliant Luminescent Proteins for Multicolor, Real-time Bioluminescence Imaging. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i140.1-i140	1.3	
67	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	3.7	63
66	A short-wavelength infrared emitting multimodal probe for non-invasive visualization of phagocyte cell migration in living mice. <i>Chemical Communications</i> , 2014 , 50, 14356-9	5.8	37
65	Nano-scale measurement of biomolecules by optical microscopy and semiconductor nanoparticles. <i>Frontiers in Physiology</i> , 2014 , 5, 273	4.6	9
64	Imaging of thrombosis and microcirculation in mouse lungs of initial melanoma metastasis with in vivo cryotechnique. <i>Microvascular Research</i> , 2014 , 91, 73-83	3.7	11
63	Four-dimensional spatial nanometry of single particles in living cells using polarized quantum rods. <i>Biophysical Journal</i> , 2013 , 105, 555-64	2.9	13
62	Bioluminescence resonance energy transfer coupled near-infrared quantum dots using GST-tagged luciferase for in vivo imaging. <i>Chemical Communications</i> , 2013 , 49, 228-30	5.8	41
61	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, 7584-6	5.8	104
60	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	2.6	25
59	Quantum Dot-Loaded Liposomes to Evaluate the Behavior of Drug Carriers after Oral Administration. <i>Journal of Pharmaceutics</i> , 2013 , 2013, 848275	2	4
58	Oxygen-sensitive quantum dots for possible nanoscale oxygen imaging in cultured cells. <i>Advances in Experimental Medicine and Biology</i> , 2013 , 789, 379-383	3.6	2
57	Histochemical analyses and quantum dot imaging of microvascular blood flow with pulmonary edema in living mouse lungs by "in vivo cryotechnique". <i>Histochemistry and Cell Biology</i> , 2012 , 137, 137-514	2.4	22
56	Bovine serum albumin-coated quantum dots as a cytoplasmic viscosity probe in a single living cell. <i>Analytical Methods</i> , 2012 , 4, 1903	3.2	21
55	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, 8486-94	15.6	95
54	Neurochemistry in the Pathophysiology of Septic Encephalopathy 2012 ,		1
53	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, 5294-8	11.5	63
52	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, 12507-17	16.4	77

51	Fluorescent Platinum Nanoclusters: Synthesis, Purification, Characterization, and Application to Bioimaging. <i>Angewandte Chemie</i> , 2011 , 123, 451-455	3.6	47
50	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, 463-75	7.3	47
49	Dose-dependent in-vivo toxicity assessment of silver nanoparticle in Wistar rats. <i>Toxicology Mechanisms and Methods</i> , 2011 , 21, 13-24	3.6	183
48	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		2
47	Fluorescent platinum nanoclusters: synthesis, purification, characterization, and application to bioimaging. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 431-5	16.4	206
46	Non-radiative exciton recombination through excitation energy transfer in quantum dot clusters. <i>Journal of Luminescence</i> , 2011 , 131, 539-542	3.8	9
45	Coupling mechanism of a GPCR and a heterotrimeric G protein during chemoattractant gradient sensing in Dictyostelium. <i>Science Signaling</i> , 2010 , 3, ra71	8.8	34
44	Real-time nanoscopy by using blinking enhanced quantum dots. <i>Biophysical Journal</i> , 2010 , 99, L50-2	2.9	43
43	Visualization of microvascular blood flow in mouse kidney and spleen by quantum dot injection with "in vivo cryotechnique". <i>Microvascular Research</i> , 2010 , 80, 491-8	3.7	18
42	A quantum dot-based ratiometric pH sensor. <i>Chemical Communications</i> , 2010 , 46, 2408-10	5.8	130
41	Near-infrared fluorescence detection of acetylcholine in aqueous solution using a complex of rhodamine 800 and p-sulfonatocalix[8]arene. <i>Sensors</i> , 2010 , 10, 2438-49	3.8	38
40	Antibody-protein A conjugated quantum dots for multiplexed imaging of surface receptors in living cells. <i>Molecular BioSystems</i> , 2010 , 6, 2325-31		42
39	3P336 Superresolution imaging by using fluorescent fluctuation in quantum dots(Bioimaging,The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S204	0	
38	3P329 Characterization of Fluorescence Properties of a Blue Emitting Au Nanocluster(Bioimaging,The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S203	0	
37	Synthesis and Surface Modification of Fluorescent Semiconductor Nanoparticles, and Their Use for Biomedical Applications. <i>Journal of the Society of Powder Technology, Japan</i> , 2010 , 47, 646-655	0.3	
36	Synthesis and Characterization of Anti-HER2 Antibody Conjugated CdSe/CdZnS Quantum Dots for Fluorescence Imaging of Breast Cancer Cells. <i>Sensors</i> , 2009 , 9, 9332-64	3.8	58
35	3P-271 Synthesis of size-controlled fluorescent nanoparticles to improve cellular uptake(Miscellaneous topics,The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S196	0	
34	1P-260 Preparation of Highly Fluorescent Au Nanoclusters and Application for Biomolecular Imaging(Bioimaging, The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S103	0	

33	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, 2044-61	6.3	83
32	Gd ³⁺ -functionalized near-infrared quantum dots for in vivo dual modal (fluorescence/magnetic resonance) imaging. <i>Chemical Communications</i> , 2008 , 5764-6	5.8	89
31	Interfacial Recognition of Acetylcholine by an Amphiphilic p-Sulfonatocalix[8]arene Derivative Incorporated into Dimyristoyl Phosphatidylcholine Vesicles. <i>Sensors</i> , 2008 , 8, 6777-6790	3.8	17
30	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	3.3	11
29	Preparation and characterization of thiacalix[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, 473-9	1.3	14
28	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, 9288-9	16.4	99
27	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	5.8	94
26	Calixarene-coated water-soluble CdSe-ZnS semiconductor quantum dots that are highly fluorescent and stable in aqueous solution. <i>Chemical Communications</i> , 2005 , 2829-31	5.8	49
25	A New Fluorometric Method for the Detection of the Neurotransmitter Acetylcholine in Water Using a Dansylcholine Complex with p-Sulfonated Calix[8]arene. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2003 , 45, 195-201		34
24	Selective transport of potassium ions across a planar phospholipid bilayer by a calix[4]arene-crown-5 as a synthetic carrier. <i>Perkin Transactions II RSC</i> , 2002 , 151-154		
23	Photocontrol of Na ⁺ transport across a phospholipid bilayer containing a bisanthroylcalix[4]arene carrier. <i>Chemical Communications</i> , 2000 , 1379-1380	5.8	13
22	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	3.6	4
21	Membrane Partitioning and Translocation of Hydrophobic Phosphonium Homologues: Thermodynamic Analysis by Immobilized Liposome Chromatography. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 7528-7534	3.4	9
20	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	5.8	6
19	A new Na ⁺ sensor based on intramolecular fluorescence energy transfer derived from calix[4]arene. <i>Chemical Communications</i> , 1999 , 2491-2492	5.8	54
18	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	5.8	40
17	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		13
16	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	16.4	56

15	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	16.4	37
14	Selective Na ⁺ Transport through Phospholipid Bilayer Membrane by a Synthetic Calix[4]arene Carrier. <i>Langmuir</i> , 1996 , 12, 2684-2689	4	25
13	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		4
12	Conductance change in phospholipid bilayer membrane by an electroneutral ionophore, monensin. <i>Biochemistry</i> , 1995 , 34, 3455-60	3.2	23
11	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, 85-8	3.3	51
10	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, 933-8	1.1	4
9	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	1.7	1
8	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		112
7	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		11
6	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		8
5	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		2
4	Effect of Ligand-Exchange Reaction on Longitudinal Magnetization Recovery in Aqueous-Al(III) NMR. <i>Chemistry Letters</i> , 1987 , 16, 1179-1182	1.7	2
3	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	5.1	31
2	PHOTOREDUCTION OF MANGANESE(III), IRON(III), COBALT(III), AND MOLYBDENUM(V) TETRAPHENYLPORPHYRINS IN 2-METHYLTETRAHYDROFURAN. <i>Chemistry Letters</i> , 1985 , 14, 847-850	1.7	19
1	Optical and ESR studies for the reaction of molybdenum tetraphenylporphyrins in .gamma.-ray irradiated 2-methyltetrahydrofuran. <i>Inorganic Chemistry</i> , 1984 , 23, 3752-3755	5.1	8