

Zhen Cheng

List of Publications by Year in descending order

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341
papers

23,834
citations

9254

74
h-index

10152

140
g-index

361
all docs

361
docs citations

361
times ranked

24809
citing authors

#	ARTICLE	IF	CITATIONS
1	A small-molecule dye for NIR-II imaging. <i>Nature Materials</i> , 2016, 15, 235-242.	13.3	1,314
2	Carbon nanotubes as photoacoustic molecular imaging agents in living mice. <i>Nature Nanotechnology</i> , 2008, 3, 557-562.	15.6	1,215
3	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017, 11, 2313-2381.	7.3	976
4	Crucial breakthrough of second near-infrared biological window fluorophores: design and synthesis toward multimodal imaging and theranostics. <i>Chemical Society Reviews</i> , 2018, 47, 4258-4278.	18.7	737
5	Noninvasive molecular imaging of small living subjects using Raman spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5844-5849.	3.3	627
6	First-in-human liver-tumour surgery guided by multispectral fluorescence imaging in the visible and near-infrared-I/II windows. <i>Nature Biomedical Engineering</i> , 2020, 4, 259-271.	11.6	622
7	A high quantum yield molecule-protein complex fluorophore for near-infrared II imaging. <i>Nature Communications</i> , 2017, 8, 15269.	5.8	458
8	Inâ€¦.Vitro and Inâ€¦.Vivo Uncaging and Bioluminescence Imaging by Using Photocaged Upconversion Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3125-3129.	7.2	428
9	Particle Size, Surface Coating, and PEGylation Influence the Biodistribution of Quantum Dots in Living Mice. <i>Small</i> , 2009, 5, 126-134.	5.2	418
10	Effects of Nanoparticle Size on Cellular Uptake and Liver MRI with Polyvinylpyrrolidone-Coated Iron Oxide Nanoparticles. <i>ACS Nano</i> , 2010, 4, 7151-7160.	7.3	417
11	Transferring Biomarker into Molecular Probe: Melanin Nanoparticle as a Naturally Active Platform for Multimodality Imaging. <i>Journal of the American Chemical Society</i> , 2014, 136, 15185-15194.	6.6	338
12	Biological imaging without autofluorescence in the second near-infrared region. <i>Nano Research</i> , 2015, 8, 3027-3034.	5.8	263
13	Novel benzo-bis(1,2,5-thiadiazole) fluorophores for in vivo NIR-II imaging of cancer. <i>Chemical Science</i> , 2016, 7, 6203-6207.	3.7	263
14	Noninvasive Raman Spectroscopy in Living Mice for Evaluation of Tumor Targeting with Carbon Nanotubes. <i>Nano Letters</i> , 2008, 8, 2800-2805.	4.5	261
15	microPET imaging of glioma integrin $\alpha v \beta 3$ expression using (64)Cu-labeled tetrameric RGD peptide. <i>Journal of Nuclear Medicine</i> , 2005, 46, 1707-18.	2.8	251
16	Novel bright-emission small-molecule NIR-II fluorophores for in vivo tumor imaging and image-guided surgery. <i>Chemical Science</i> , 2017, 8, 3489-3493.	3.7	238
17	Near-Infrared Fluorescent RGD Peptides for Optical Imaging of Integrin $\alpha v \beta 3$ Expression in Living Mice. <i>Bioconjugate Chemistry</i> , 2005, 16, 1433-1441.	1.8	233
18	Topological supramolecular network enabled high-conductivity, stretchable organic bioelectronics. <i>Science</i> , 2022, 375, 1411-1417.	6.0	230

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19	Nanocomposite-Based Photodynamic Therapy Strategies for Deep Tumor Treatment. <i>Small</i> , 2015, 11, 5860-5887.	5.2	229
20	Perylene-Diimide-Based Nanoparticles as Highly Efficient Photoacoustic Agents for Deep Brain Tumor Imaging in Living Mice. <i>Advanced Materials</i> , 2015, 27, 843-847.	11.1	222
21	Real-Time Intravital Imaging of RGD-Quantum Dot Binding to Luminal Endothelium in Mouse Tumor Neovasculature. <i>Nano Letters</i> , 2008, 8, 2599-2606.	4.5	207
22	Near-infrared fluorescent nanoprobe for cancer molecular imaging: status and challenges. <i>Trends in Molecular Medicine</i> , 2010, 16, 574-583.	3.5	204
23	<i>In vivo</i> near-infrared fluorescence imaging of cancer with nanoparticle-based probes. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010, 2, 349-366.	3.3	190
24	microPET-Based Biodistribution of Quantum Dots in Living Mice. <i>Journal of Nuclear Medicine</i> , 2007, 48, 1511-1518.	2.8	182
25	Molecular Optical Imaging with Radioactive Probes. <i>PLoS ONE</i> , 2010, 5, e9470.	1.1	177
26	Enhanced Fructose Utilization Mediated by SLC2A5 Is a Unique Metabolic Feature of Acute Myeloid Leukemia with Therapeutic Potential. <i>Cancer Cell</i> , 2016, 30, 779-791.	7.7	176
27	Targeted Microbubbles for Imaging Tumor Angiogenesis: Assessment of Whole-Body Biodistribution with Dynamic Micro-PET in Mice. <i>Radiology</i> , 2008, 249, 212-219.	3.6	175
28	NIR-light-induced surface-enhanced Raman scattering for detection and photothermal/photodynamic therapy of cancer cells using methylene blue-embedded gold nanorod@SiO ₂ nanocomposites. <i>Biomaterials</i> , 2014, 35, 3309-3318.	5.7	175
29	Ultrasmall Near-Infrared Non-cadmium Quantum Dots for <i>in vivo</i> Tumor Imaging. <i>Small</i> , 2010, 6, 256-261.	5.2	174
30	Diketopyrrolopyrrole-based semiconducting polymer nanoparticles for <i>in vivo</i> second near-infrared window imaging and image-guided tumor surgery. <i>Chemical Science</i> , 2018, 9, 3105-3110.	3.7	173
31	Construction and Validation of Nano Gold Tripods for Molecular Imaging of Living Subjects. <i>Journal of the American Chemical Society</i> , 2014, 136, 3560-3571.	6.6	170
32	Multifunctional Biomedical Imaging in Physiological and Pathological Conditions Using a NIR Probe. <i>Advanced Functional Materials</i> , 2017, 27, 1700995.	7.8	169
33	Near-Infrared Fluorescent Deoxyglucose Analogue for Tumor Optical Imaging in Cell Culture and Living Mice. <i>Bioconjugate Chemistry</i> , 2006, 17, 662-669.	1.8	168
34	Engineering Melanin Nanoparticles as an Efficient Drug-Delivery System for Imaging-Guided Chemotherapy. <i>Advanced Materials</i> , 2015, 27, 5063-5069.	11.1	166
35	Polymethine Thiopyrylium Fluorophores with Absorption beyond 1000 nm for Biological Imaging in the Second Near-Infrared Subwindow. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2049-2059.	2.9	156
36	Novel dual-function near-infrared II fluorescence and PET probe for tumor delineation and image-guided surgery. <i>Chemical Science</i> , 2018, 9, 2092-2097.	3.7	149

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37	Engineered Knottin Peptides: A New Class of Agents for Imaging Integrin Expression in Living Subjects. <i>Cancer Research</i> , 2009, 69, 2435-2442.	0.4	146
38	High Affinity to Skeleton Rare Earth Doped Nanoparticles for Near-Infrared II Imaging. <i>Nano Letters</i> , 2019, 19, 2985-2992.	4.5	141
39	In Vivo Tumor-Targeted Fluorescence Imaging Using Near-Infrared Non-Cadmium Quantum Dots. <i>Bioconjugate Chemistry</i> , 2010, 21, 604-609.	1.8	137
40	Synthesis, Characterization, and Biomedical Applications of a Targeted Dual-Modal Near-Infrared-II Fluorescence and Photoacoustic Imaging Nanoprobe. <i>ACS Nano</i> , 2017, 11, 12276-12291.	7.3	137
41	HSA coated MnO nanoparticles with prominent MRI contrast for tumor imaging. <i>Chemical Communications</i> , 2010, 46, 6684.	2.2	132
42	Amino-functionalized green fluorescent carbon dots as surface energy transfer biosensors for hyaluronidase. <i>Nanoscale</i> , 2015, 7, 6836-6842.	2.8	130
43	Affibody modified and radiolabeled gold-iron oxide hetero-nanostructures for tumor PET, optical and MR imaging. <i>Biomaterials</i> , 2013, 34, 2796-2806.	5.7	129
44	Harnessing the Power of Radionuclides for Optical Imaging: Cerenkov Luminescence Imaging. <i>Journal of Nuclear Medicine</i> , 2011, 52, 2009-2018.	2.8	128
45	Affibody-functionalized Gold-silica Nanoparticles for Raman Molecular Imaging of the Epidermal Growth Factor Receptor. <i>Small</i> , 2011, 7, 625-633.	5.2	125
46	Affibody-based nanoprobe for HER2-expressing cell and tumor imaging. <i>Biomaterials</i> , 2011, 32, 2141-2148.	5.7	125
47	Targeted Chemo-Photodynamic Combination Platform Based on the DOX Prodrug Nanoparticles for Enhanced Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13016-13028.	4.0	123
48	Synthesis and Radioluminescence of PEGylated Eu ³⁺ -doped Nanophosphors as Bioimaging Probes. <i>Advanced Materials</i> , 2011, 23, H195-9.	11.1	121
49	A Novel Clinically Translatable Fluorescent Nanoparticle for Targeted Molecular Imaging of Tumors in Living Subjects. <i>Nano Letters</i> , 2012, 12, 281-286.	4.5	120
50	Radiation-Excited Quantum Dots for in vivo Multiplexed Optical Imaging. <i>Small</i> , 2010, 6, 1087-1091.	5.2	115
51	Ischemic Postconditioning-Mediated miRNA-21 Protects against Cardiac ischemia/reperfusion Injury via PTEN/Akt Pathway. <i>PLoS ONE</i> , 2013, 8, e75872.	1.1	114
52	Intraoperative Imaging of Tumors Using Cerenkov Luminescence Endoscopy: A Feasibility Experimental Study. <i>Journal of Nuclear Medicine</i> , 2012, 53, 1579-1584.	2.8	111
53	Tyrosinase as a multifunctional reporter gene for Photoacoustic/MRI/PET triple modality molecular imaging. <i>Scientific Reports</i> , 2013, 3, 1490.	1.6	110
54	Hybrid Nanotrimers for Dual T1 and T2-Weighted Magnetic Resonance Imaging. <i>ACS Nano</i> , 2014, 8, 9884-9896.	7.3	106

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55	Fluorescent imaging of cancerous tissues for targeted surgery. <i>Advanced Drug Delivery Reviews</i> , 2014, 76, 21-38.	6.6	104
56	Small-Animal PET Imaging of Human Epidermal Growth Factor Receptor Type 2 Expression with Site-Specific 18F-Labeled Protein Scaffold Molecules. <i>Journal of Nuclear Medicine</i> , 2008, 49, 804-813.	2.8	102
57	Visualizing Implanted Tumors in Mice with Magnetic Resonance Imaging Using Magnetotactic Bacteria. <i>Clinical Cancer Research</i> , 2009, 15, 5170-5177.	3.2	101
58	Synergistically Enhancing the Therapeutic Effect of Radiation Therapy with Radiation Activatable and Reactive Oxygen Species-Releasing Nanostructures. <i>ACS Nano</i> , 2018, 12, 4946-4958.	7.3	101
59	A Self-Assembled DNA Origami-Gold Nanorod Complex for Cancer Theranostics. <i>Small</i> , 2015, 11, 5134-5141.	5.2	99
60	Fluorescent Fructose Derivatives for Imaging Breast Cancer Cells. <i>Bioconjugate Chemistry</i> , 2007, 18, 628-634.	1.8	98
61	Strained Cyclooctyne as a Molecular Platform for Construction of Multimodal Imaging Probes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5981-5984.	7.2	97
62	Non-invasive Imaging of Idiopathic Pulmonary Fibrosis Using Cathepsin Protease Probes. <i>Scientific Reports</i> , 2016, 6, 19755.	1.6	97
63	Live imaging of follicle stimulating hormone receptors in gonads and bones using near infrared II fluorophore. <i>Chemical Science</i> , 2017, 8, 3703-3711.	3.7	96
64	⁶⁴ Cu-Labeled Alpha-Melanocyte-Stimulating Hormone Analog for MicroPET Imaging of Melanocortin 1 Receptor Expression. <i>Bioconjugate Chemistry</i> , 2007, 18, 765-772.	1.8	94
65	Gadolinium-chelate functionalized bismuth nanotheranostic agent for in vivo MRI/CT/PAI imaging-guided photothermal cancer therapy. <i>Biomaterials</i> , 2018, 159, 37-47.	5.7	94
66	Nanoparticle-enhanced chemo-immunotherapy to trigger robust antitumor immunity. <i>Science Advances</i> , 2020, 6, eabc3646.	4.7	92
67	Excretable Lanthanide Nanoparticle for Biomedical Imaging and Surgical Navigation in the Second Near-Infrared Window. <i>Advanced Science</i> , 2019, 6, 1902042.	5.6	88
68	Cancer cell membrane-coated rare earth doped nanoparticles for tumor surgery navigation in NIR-II imaging window. <i>Chemical Engineering Journal</i> , 2020, 385, 123959.	6.6	86
69	Theranostics of Malignant Melanoma with ⁶⁴ CuCl ₂ . <i>Journal of Nuclear Medicine</i> , 2014, 55, 812-817.	2.8	85
70	One-step radiosynthesis of 18F-AIF-NOTA-RGD2 for tumor angiogenesis PET imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011, 38, 1732-1741.	3.3	83
71	A Novel Method for Direct Site-Specific Radiolabeling of Peptides Using [¹⁸ F]FDG. <i>Bioconjugate Chemistry</i> , 2009, 20, 432-436.	1.8	81
72	Preclinical Evaluation of Raman Nanoparticle Biodistribution for their Potential Use in Clinical Endoscopy Imaging. <i>Small</i> , 2011, 7, 2232-2240.	5.2	81

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73	Gold Nanoclusters for NIR-Fluorescence Imaging of Bones. <i>Small</i> , 2020, 16, e2003851.	5.2	81
74	The manipulation of natural killer cells to target tumor sites using magnetic nanoparticles. <i>Biomaterials</i> , 2012, 33, 5584-5592.	5.7	77
75	Enzyme-Responsive Multifunctional Magnetic Nanoparticles for Tumor Intracellular Drug Delivery and Imaging. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1381-1389.	1.7	76
76	Activatable Near-Infrared Fluorescent Probe for <i>In Vivo</i> Imaging of Fibroblast Activation Protein- α . <i>Bioconjugate Chemistry</i> , 2012, 23, 1704-1711.	1.8	75
77	Molecular imaging for assessment of mesenchymal stem cells mediated breast cancer therapy. <i>Biomaterials</i> , 2014, 35, 5162-5170.	5.7	74
78	Evaluation of integrin $\alpha_6\beta_4$ cystine knot PET tracers to detect cancer and idiopathic pulmonary fibrosis. <i>Nature Communications</i> , 2019, 10, 4673.	5.8	73
79	Small-Animal PET Imaging of Human Epidermal Growth Factor Receptor Positive Tumor with a ^{64}Cu Labeled Affibody Protein. <i>Bioconjugate Chemistry</i> , 2010, 21, 947-954.	1.8	71
80	Modification of the Structure of a Metallopeptide: Synthesis and Biological Evaluation of ^{111}In -Labeled DOTA-Conjugated Rhenium-Cyclized α -MSH Analogues. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 3048-3056.	2.9	70
81	Dragon fruit-like biocage as an iron trapping nanoplatfor for high efficiency targeted cancer multimodality imaging. <i>Biomaterials</i> , 2015, 69, 30-37.	5.7	70
82	Proof-of-Concept Study of Monitoring Cancer Drug Therapy with Cerenkov Luminescence Imaging. <i>Journal of Nuclear Medicine</i> , 2012, 53, 312-317.	2.8	68
83	A Comparative Study of Radiolabeled Bombesin Analogs for the PET Imaging of Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2013, 54, 2132-2138.	2.8	68
84	Tumor-Targeting Peptides: Ligands for Molecular Imaging and Therapy. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2018, 18, 74-86.	0.9	68
85	PSSMHCpan: a novel PSSM-based software for predicting class I peptide-HLA binding affinity. <i>GigaScience</i> , 2017, 6, 1-11.	3.3	67
86	Monitoring the Real-Time Circulatory System-Related Physiological and Pathological Processes <i>In Vivo</i> Using a Multifunctional NIR-Fluorescence Probe. <i>Advanced Functional Materials</i> , 2020, 30, 1906343.	7.8	67
87	A phosphorescent probe for <i>in vivo</i> imaging in the second near-infrared window. <i>Nature Biomedical Engineering</i> , 2022, 6, 629-639.	11.6	67
88	Protein scaffold-based molecular probes for cancer molecular imaging. <i>Amino Acids</i> , 2011, 41, 1037-1047.	1.2	66
89	A PET imaging approach for determining EGFR mutation status for improved lung cancer patient management. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	66
90	Quaternary Ammonium Salt Based NIR-Fluorescence Probes for <i>In Vivo</i> Imaging. <i>Advanced Optical Materials</i> , 2019, 7, 1900229.	3.6	66

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91	Epitope-specific monoclonal antibodies to FSH ¹² increase bone mass. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2192-2197.	3.3	65
92	Small-Animal PET of Melanocortin 1 Receptor Expression Using a ¹⁸ F-Labeled $\hat{\Delta}$ -Melanocyte-Stimulating Hormone Analog. Journal of Nuclear Medicine, 2007, 48, 987-994.	2.8	64
93	NIR-Fluorescence Endoscopy for Targeted Imaging of Colorectal Cancer. Advanced Healthcare Materials, 2019, 8, e1900974.	3.9	63
94	NIR Nanoprobes for Cancer Molecular Imaging: Approaching Clinic. Trends in Molecular Medicine, 2020, 26, 469-482.	3.5	63
95	Melanin-Targeted Preclinical PET Imaging of Melanoma Metastasis. Journal of Nuclear Medicine, 2009, 50, 1692-1699.	2.8	62
96	Molecular Targeted NIR-II Probe for Image-Guided Brain Tumor Surgery. Bioconjugate Chemistry, 2018, 29, 3833-3840.	1.8	62
97	A Dual-Labeled Knottin Peptide for PET and Near-Infrared Fluorescence Imaging of Integrin Expression in Living Subjects. Bioconjugate Chemistry, 2010, 21, 436-444.	1.8	61
98	Evaluation of a ⁶⁴ Cu-Labeled Cystine-Knot Peptide Based on Agouti-Related Protein for PET of Tumors Expressing $\hat{\Delta}$ -Integrin. Journal of Nuclear Medicine, 2010, 51, 251-258.	2.8	59
99	A 2-Helix Small Protein Labeled with ⁶⁸ Ga for PET Imaging of <i>HER2</i> Expression. Journal of Nuclear Medicine, 2009, 50, 1492-1499.	2.8	58
100	Near-Infrared Quantum Dots as Optical Probes for Tumor Imaging. Current Topics in Medicinal Chemistry, 2010, 10, 1147-1157.	1.0	57
101	PET of EGFR Expression with an ¹⁸ F-Labeled Affibody Molecule. Journal of Nuclear Medicine, 2012, 53, 1110-1118.	2.8	55
102	Deep-Tissue Photothermal Therapy Using Laser Illumination at NIR-IIa Window. Nano-Micro Letters, 2020, 12, 38.	14.4	55
103	Radioiodination of Rhenium Cyclized $\hat{\Delta}$ -Melanocyte-Stimulating Hormone Resulting in Enhanced Radioactivity Localization and Retention in Melanoma. Cancer Research, 2004, 64, 1411-1418.	0.4	54
104	⁶⁴ Cu-Labeled Affibody Molecules for Imaging of HER2 Expressing Tumors. Molecular Imaging and Biology, 2010, 12, 316-324.	1.3	54
105	Comparison of Two Site-Specifically ¹⁸ F-Labeled Affibodies for PET Imaging of EGFR Positive Tumors. Molecular Pharmaceutics, 2014, 11, 3947-3956.	2.3	54
106	Zwitterionic Manganese and Gadolinium Metal-Organic Frameworks as Efficient Contrast Agents for in Vivo Magnetic Resonance Imaging. ACS Applied Materials & Interfaces, 2017, 9, 41378-41386.	4.0	54
107	Smart Self-Assembled Organic Nanoprobe for Protein-Specific Detection: Design, Synthesis, Application, and Mechanism Studies. Analytical Chemistry, 2017, 89, 10085-10093.	3.2	53
108	Acceptor engineering for NIR-II dyes with high photochemical and biomedical performance. Nature Communications, 2022, 13, .	5.8	53

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109	Endoscopic imaging of Cerenkov luminescence. <i>Biomedical Optics Express</i> , 2012, 3, 1215.	1.5	52
110	<i>In Vivo</i> Biodistribution and Small Animal PET of ⁶⁴ Cu-Labeled Antimicrobial Peptoids. <i>Bioconjugate Chemistry</i> , 2012, 23, 1069-1079.	1.8	51
111	In vivo multifunctional fluorescence imaging using liposome-coated lanthanide nanoparticles in near-infrared-II/IIa/IIb windows. <i>Nano Today</i> , 2021, 38, 101120.	6.2	51
112	Radioluminescent nanophosphors enable multiplexed small-animal imaging. <i>Optics Express</i> , 2012, 20, 11598.	1.7	50
113	Overexpression of miRNA-497 inhibits tumor angiogenesis by targeting VEGFR2. <i>Scientific Reports</i> , 2015, 5, 13827.	1.6	50
114	Smart Self-Assembly Amphiphilic Cyclopeptide-Dye for Near-Infrared Window-II Imaging. <i>Advanced Materials</i> , 2021, 33, e2006902.	11.1	50
115	Direct Site-Specific Radiolabeling of an Affibody Protein with 4-[¹⁸ F]Fluorobenzaldehyde via Oxime Chemistry. <i>Molecular Imaging and Biology</i> , 2008, 10, 177-181.	1.3	49
116	Dynamic Visualization of RGD-Quantum Dot Binding to Tumor Neovasculature and Extravasation in Multiple Living Mouse Models Using Intravital Microscopy. <i>Small</i> , 2010, 6, 2222-2229.	5.2	49
117	¹⁸ F-Fluorobenzoate-Labeled Cystine Knot Peptides for PET Imaging of Integrin $\alpha_5\beta_1$. <i>Journal of Nuclear Medicine</i> , 2013, 54, 1101-1105.	2.8	48
118	MicroRNA-22 Downregulation by Atorvastatin in a Mouse Model of Cardiac Hypertrophy: a new Mechanism for Antihypertrophic Intervention. <i>Cellular Physiology and Biochemistry</i> , 2013, 31, 997-1008.	1.1	48
119	Acid-Promoted D-A-D Type Far-Red Fluorescent Probe with High Photostability for Lysosomal Nitric Oxide Imaging. <i>Analytical Chemistry</i> , 2018, 90, 7953-7962.	3.2	48
120	PET Imaging of Translocator Protein (18 kDa) in a Mouse Model of Alzheimer's Disease Using <i>N</i> -(2,5-Dimethoxybenzyl)-2- ¹⁸ F-Fluoro- <i>N</i> -(2-Phenoxyphenyl)Acetamide. <i>Journal of Nuclear Medicine</i> , 2015, 56, 311-316.	2.8	47
121	Synthesis of the Cu-Doped Dual-Emission Fluorescent Carbon Dots and Its Analytical Application. <i>Langmuir</i> , 2018, 34, 9982-9989.	1.6	47
122	Biodegradable Silica-Based Nanotheranostics for Precise MRI/NIR-II Fluorescence Imaging and Self-Reinforcing Antitumor Therapy. <i>Small</i> , 2021, 17, e2006508.	5.2	46
123	PET of Malignant Melanoma Using ¹⁸ F-Labeled Metallopeptides. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1865-1872.	2.8	45
124	An Engineered Knottin Peptide Labeled with ¹⁸ F for PET Imaging of Integrin Expression. <i>Bioconjugate Chemistry</i> , 2009, 20, 2342-2347.	1.8	45
125	Development of ¹⁸ F-Labeled Picolinamide Probes for PET Imaging of Malignant Melanoma. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 895-901.	2.9	45
126	^{99m} Tc-Labeled Cystine Knot Peptide Targeting Integrin $\alpha_5\beta_1$ for Tumor SPECT Imaging. <i>Molecular Pharmaceutics</i> , 2014, 11, 1208-1217.	2.3	45

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127	Pd-catalyzed β -selective C(sp ³)–H acetoxylation of amides through an unusual cyclopalladation mechanism. <i>Chemical Communications</i> , 2015, 51, 3219-3222.	2.2	45
128	Bisdeoxycoelenterazine Derivatives for Improvement of Bioluminescence Resonance Energy Transfer Assays. <i>Journal of the American Chemical Society</i> , 2007, 129, 11900-11901.	6.6	44
129	Assessment and comparison of magnetic nanoparticles as MRI contrast agents in a rodent model of human hepatocellular carcinoma. <i>Contrast Media and Molecular Imaging</i> , 2012, 7, 363-372.	0.4	44
130	First 18F-labeled ligand for PET imaging of uPAR: In vivo studies in human prostate cancer xenografts. <i>Nuclear Medicine and Biology</i> , 2013, 40, 618-624.	0.3	44
131	Imaging chemically modified adenovirus for targeting tumors expressing integrin α v β 3 in living mice with mutant herpes simplex virus type 1 thymidine kinase PET reporter gene. <i>Journal of Nuclear Medicine</i> , 2006, 47, 130-9.	2.8	44
132	PET Imaging of Tumor Neovascularization in a Transgenic Mouse Model with a Novel 64Cu-DOTA-Knottin Peptide. <i>Cancer Research</i> , 2010, 70, 9022-9030.	0.4	43
133	SM5-1-Conjugated PLA nanoparticles loaded with 5-fluorouracil for targeted hepatocellular carcinoma imaging and therapy. <i>Biomaterials</i> , 2014, 35, 2878-2889.	5.7	43
134	Design, synthesis and biological evaluation of mitochondria targeting theranostic agents. <i>Chemical Communications</i> , 2014, 50, 8919-8922.	2.2	43
135	Extracellular Matrix can Recover the Downregulation of Adhesion Molecules after Cell Detachment and Enhance Endothelial Cell Engraftment. <i>Scientific Reports</i> , 2015, 5, 10902.	1.6	43
136	Mitochondria-targeting fluorescent molecules for high efficiency cancer growth inhibition and imaging. <i>Chemical Science</i> , 2019, 10, 7946-7951.	3.7	43
137	Engineering single-atom catalysts toward biomedical applications. <i>Chemical Society Reviews</i> , 2022, 51, 3688-3734.	18.7	43
138	Non-Invasive Imaging of Cysteine Cathepsin Activity in Solid Tumors Using a 64Cu-Labeled Activity-Based Probe. <i>PLoS ONE</i> , 2011, 6, e28029.	1.1	42
139	Hybrid anisotropic nanostructures for dual-modal cancer imaging and image-guided chemo-thermo therapies. <i>Biomaterials</i> , 2016, 103, 265-277.	5.7	42
140	An NIR-II/MR dual modal nanoprobe for liver cancer imaging. <i>Nanoscale</i> , 2020, 12, 11510-11517.	2.8	41
141	Enhanced immunotherapy of SM5-1 in hepatocellular carcinoma by conjugating with gold nanoparticles and its in vivo bioluminescence tomographic evaluation. <i>Biomaterials</i> , 2016, 87, 46-56.	5.7	40
142	Cy5.5-labeled Affibody molecule for near-infrared fluorescent optical imaging of epidermal growth factor receptor positive tumors. <i>Journal of Biomedical Optics</i> , 2010, 15, 036007.	1.4	39
143	Cerenkov Luminescence Endoscopy: Improved Molecular Sensitivity with β^+ -Emitting Radiotracers. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1905-1909.	2.8	39
144	Imaging of hepatocellular carcinoma patient-derived xenografts using 89Zr-labeled anti-glypican-3 monoclonal antibody. <i>Biomaterials</i> , 2014, 35, 6964-6971.	5.7	39

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145	Dual-Modality Activity-Based Probes as Molecular Imaging Agents for Vascular Inflammation. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1583-1590.	2.8	39
146	A proof-of-concept application of water-soluble ytterbium(ⁱⁱⁱ) molecular probes in <i>in vivo</i> NIR-II whole body bioimaging. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1962-1967.	3.0	39
147	Dysregulated integrin α _v β ₃ and CD47 signaling promotes joint inflammation, cartilage breakdown, and progression of osteoarthritis. <i>JCI Insight</i> , 2019, 4, .	2.3	39
148	Photoactivable bioluminescent probes for imaging luciferase activity. <i>Chemical Communications</i> , 2009, , 4028.	2.2	38
149	Evaluation of Four Affibody-Based Near-Infrared Fluorescent Probes for Optical Imaging of Epidermal Growth Factor Receptor Positive Tumors. <i>Bioconjugate Chemistry</i> , 2012, 23, 1149-1156.	1.8	38
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