

Sanjiv S Gambhir

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11824431/publications.pdf>

Version: 2024-02-01

420
papers

44,040
citations

1606

105
h-index

2675

193
g-index

427
all docs

427
docs citations

427
times ranked

42126
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular imaging in living subjects: seeing fundamental biological processes in a new light. <i>Genes and Development</i> , 2003, 17, 545-580.	2.7	1,954
2	Nanoparticle PEGylation for imaging and therapy. <i>Nanomedicine</i> , 2011, 6, 715-728.	1.7	1,690
3	Carbon nanotubes as photoacoustic molecular imaging agents in living mice. <i>Nature Nanotechnology</i> , 2008, 3, 557-562.	15.6	1,215
4	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. <i>Nature Nanotechnology</i> , 2014, 9, 233-239.	15.6	1,057
5	A brain tumor molecular imaging strategy using a new triple-modality MRI-photoacoustic-Raman nanoparticle. <i>Nature Medicine</i> , 2012, 18, 829-834.	15.2	1,029
6	Molecular imaging in drug development. <i>Nature Reviews Drug Discovery</i> , 2008, 7, 591-607.	21.5	1,000
7	A Molecular Imaging Primer: Modalities, Imaging Agents, and Applications. <i>Physiological Reviews</i> , 2012, 92, 897-965.	13.1	928
8	Peptide-Labeled Near-Infrared Quantum Dots for Imaging Tumor Vasculature in Living Subjects. <i>Nano Letters</i> , 2006, 6, 669-676.	4.5	905
9	Self-illuminating quantum dot conjugates for in vivo imaging. <i>Nature Biotechnology</i> , 2006, 24, 339-343.	9.4	757
10	A pilot toxicology study of single-walled carbon nanotubes in a small sample of mice. <i>Nature Nanotechnology</i> , 2008, 3, 216-221.	15.6	705
11	Multiplexed imaging of surface enhanced Raman scattering nanotags in living mice using noninvasive Raman spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13511-13516.	3.3	656
12	In Vivo Visualization of Embryonic Stem Cell Survival, Proliferation, and Migration After Cardiac Delivery. <i>Circulation</i> , 2006, 113, 1005-1014.	1.6	492
13	Nanooncology: The future of cancer diagnosis and therapy. <i>Ca-A Cancer Journal for Clinicians</i> , 2013, 63, 395-418.	157.7	481
14	Molecular Imaging with Theranostic Nanoparticles. <i>Accounts of Chemical Research</i> , 2011, 44, 1050-1060.	7.6	464
15	Noninvasive cell-tracking methods. <i>Nature Reviews Clinical Oncology</i> , 2011, 8, 677-688.	12.5	439
16	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
17	Dual-Function Probe for PET and Near-Infrared Fluorescence Imaging of Tumor Vasculature. <i>Journal of Nuclear Medicine</i> , 2007, 48, 1862-1870.	2.8	400
18	Integrating genomic features for non-invasive early lung cancer detection. <i>Nature</i> , 2020, 580, 245-251.	13.7	379

#	ARTICLE	IF	CITATIONS
19	Photoacoustic clinical imaging. <i>Photoacoustics</i> , 2019, 14, 77-98.	4.4	368
20	Matrix-insensitive protein assays push the limits of biosensors in medicine. <i>Nature Medicine</i> , 2009, 15, 1327-1332.	15.2	359
21	Gold Nanorods for Ovarian Cancer Detection with Photoacoustic Imaging and Resection Guidance via Raman Imaging in Living Mice. <i>ACS Nano</i> , 2012, 6, 10366-10377.	7.3	357
22	Noninvasive detection of therapeutic cytolytic T cells with ^{18}F -FHBG PET in a patient with glioma. <i>Nature Clinical Practice Oncology</i> , 2009, 6, 53-58.	4.3	345
23	Imaging Tri-Fusion Multimodality Reporter Gene Expression in Living Subjects. <i>Cancer Research</i> , 2004, 64, 1323-1330.	0.4	339
24	Diketopyrrolopyrrole-Based Semiconducting Polymer Nanoparticles for In Vivo Photoacoustic Imaging. <i>Advanced Materials</i> , 2015, 27, 5184-5190.	11.1	305
25	Engineering high-affinity PD-1 variants for optimized immunotherapy and immuno-PET imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6506-14.	3.3	299
26	Photoacoustic Imaging of Mesenchymal Stem Cells in Living Mice via Silica-Coated Gold Nanorods. <i>ACS Nano</i> , 2012, 6, 5920-5930.	7.3	294
27	US Imaging of Tumor Angiogenesis with Microbubbles Targeted to Vascular Endothelial Growth Factor Receptor Type 2 in Mice. <i>Radiology</i> , 2008, 246, 508-518.	3.6	293
28	Early detection of cancer. <i>Science</i> , 2022, 375, eaay9040.	6.0	291
29	Eradication of spontaneous malignancy by local immunotherapy. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	289
30	Molecular Imaging of Cardiac Cell Transplantation in Living Animals Using Optical Bioluminescence and Positron Emission Tomography. <i>Circulation</i> , 2003, 108, 1302-1305.	1.6	287
31	The Exosome Total Isolation Chip. <i>ACS Nano</i> , 2017, 11, 10712-10723.	7.3	275
32	Noninvasive Optical Imaging of Firefly Luciferase Reporter Gene Expression in Skeletal Muscles of Living Mice. <i>Molecular Therapy</i> , 2001, 4, 297-306.	3.7	268
33	A Raman-based endoscopic strategy for multiplexed molecular imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2288-97.	3.3	268
34	Reporter gene imaging of targeted T cell immunotherapy in recurrent glioma. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	263
35	Towards clinically translatable in vivo nanodiagnostics. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	255
36	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

#	ARTICLE	IF	CITATIONS
37	Endothelial Cells Derived From Human iPSCs Increase Capillary Density and Improve Perfusion in a Mouse Model of Peripheral Arterial Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, e72-9.	1.1	230
38	Quantitative PET imaging of tumor integrin alphavbeta3 expression with 18F-FRGD2. <i>Journal of Nuclear Medicine</i> , 2006, 47, 113-21.	2.8	228
39	Family of Enhanced Photoacoustic Imaging Agents for High-Sensitivity and Multiplexing Studies in Living Mice. <i>ACS Nano</i> , 2012, 6, 4694-4701.	7.3	221
40	Quantification of target gene expression by imaging reporter gene expression in living animals. <i>Nature Medicine</i> , 2000, 6, 933-937.	15.2	219
41	PET of vascular endothelial growth factor receptor expression. <i>Journal of Nuclear Medicine</i> , 2006, 47, 2048-56.	2.8	217
42	Positron Emission Tomography Imaging of Adenoviral-Mediated Transgene Expression in Liver Cancer Patients. <i>Gastroenterology</i> , 2005, 128, 1787-1795.	0.6	211
43	Transcriptional and Functional Profiling of Human Embryonic Stem Cell-Derived Cardiomyocytes. <i>PLoS ONE</i> , 2008, 3, e3474.	1.1	211
44	Dual-targeted Contrast Agent for US Assessment of Tumor Angiogenesis in Vivo. <i>Radiology</i> , 2008, 248, 936-944.	3.6	206
45	Trafficking Mesenchymal Stem Cell Engraftment and Differentiation in Tumor-Bearing Mice by Bioluminescence Imaging. <i>Stem Cells</i> , 2009, 27, 1548-1558.	1.4	206
46	Colony-stimulating factor 1 receptor (CSF1R) signaling in injured neurons facilitates protection and survival. <i>Journal of Experimental Medicine</i> , 2013, 210, 157-172.	4.2	206
47	¹⁸ F-FDG Uptake in Lung, Breast, and Colon Cancers: Molecular Biology Correlates and Disease Characterization. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1820-1827.	2.8	203
48	Mathematical Model Identifies Blood Biomarker-Based Early Cancer Detection Strategies and Limitations. <i>Science Translational Medicine</i> , 2011, 3, 109ra116.	5.8	202
49	Preclinical Efficacy of the c-Met Inhibitor CE-355621 in a U87 MG Mouse Xenograft Model Evaluated by ¹⁸ F-FDG Small-Animal PET. <i>Journal of Nuclear Medicine</i> , 2008, 49, 129-134.	2.8	201
50	Activatable Oligomerizable Imaging Agents for Photoacoustic Imaging of Furin-Like Activity in Living Subjects. <i>Journal of the American Chemical Society</i> , 2013, 135, 11015-11022.	6.6	196
51	How molecular imaging is speeding up antiangiogenic drug development. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 2624-2633.	1.9	192
52	Collagen Matrices Enhance Survival of Transplanted Cardiomyoblasts and Contribute to Functional Improvement of Ischemic Rat Hearts. <i>Circulation</i> , 2006, 114, 1167-1173.	1.6	188
53	A small animal Raman instrument for rapid, wide-area, spectroscopic imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12408-12413.	3.3	185
54	Differentiation, Survival, and Function of Embryonic Stem Cell-Derived Endothelial Cells for Ischemic Heart Disease. <i>Circulation</i> , 2007, 116, 146-54.	1.6	184

#	ARTICLE	IF	CITATIONS
55	PET in oncology: Will it replace the other modalities?. <i>Seminars in Nuclear Medicine</i> , 1997, 27, 94-106.	2.5	183
56	microPET-Based Biodistribution of Quantum Dots in Living Mice. <i>Journal of Nuclear Medicine</i> , 2007, 48, 1511-1518.	2.8	182
57	Clinically Approved Nanoparticle Imaging Agents. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1833-1837.	2.8	181
58	COMPARISON OF HELICAL COMPUTERIZED TOMOGRAPHY, POSITRON EMISSION TOMOGRAPHY AND MONOCLONAL ANTIBODY SCANS FOR EVALUATION OF LYMPH NODE METASTASES IN PATIENTS WITH PROSTATE SPECIFIC ANTIGEN RELAPSE AFTER TREATMENT FOR LOCALIZED PROSTATE CANCER. <i>Journal of Urology</i> , 1999, 162, 1322-1328.	0.2	180
59	Ultrasound Molecular Imaging With BR55 in Patients With Breast and Ovarian Lesions: First-in-Human Results. <i>Journal of Clinical Oncology</i> , 2017, 35, 2133-2140.	0.8	178
60	Molecular Optical Imaging with Radioactive Probes. <i>PLoS ONE</i> , 2010, 5, e9470.	1.1	177
61	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
62	Theranostic Mesoporous Silica Nanoparticles Biodegrade after Pro-Survival Drug Delivery and Ultrasound/Magnetic Resonance Imaging of Stem Cells. <i>Theranostics</i> , 2015, 5, 631-642.	4.6	172
63	Visualization of advanced human prostate cancer lesions in living mice by a targeted gene transfer vector and optical imaging. <i>Nature Medicine</i> , 2002, 8, 891-896.	15.2	170
64	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
65	Tumor Cell-Derived Extracellular Vesicle-Coated Nanocarriers: An Efficient Theranostic Platform for the Cancer-Specific Delivery of Anti-miR-21 and Imaging Agents. <i>ACS Nano</i> , 2018, 12, 10817-10832.	7.3	170
66	124I-labeled engineered anti-CEA minibodies and diabodies allow high-contrast, antigen-specific small-animal PET imaging of xenografts in athymic mice. <i>Journal of Nuclear Medicine</i> , 2003, 44, 1962-9.	2.8	167
67	Quantum dot imaging for embryonic stem cells. <i>BMC Biotechnology</i> , 2007, 7, 67.	1.7	163
68	Bioluminescence resonance energy transfer (BRET) imaging of protein-protein interactions within deep tissues of living subjects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12060-12065.	3.3	163
69	Endometrial VEGF induces placental sFLT1 and leads to pregnancy complications. <i>Journal of Clinical Investigation</i> , 2014, 124, 4941-4952.	3.9	160
70	Optimizing Radiolabeled Engineered Anti-p185HER2 Antibody Fragments for In vivo Imaging. <i>Cancer Research</i> , 2005, 65, 5907-5916.	0.4	158
71	Antiangiogenic Cancer Therapy: Monitoring with Molecular US and a Clinically Translatable Contrast Agent (BR55). <i>Radiology</i> , 2010, 256, 519-527.	3.6	158
72	Androgen Receptor Splice Variants Dimerize to Transactivate Target Genes. <i>Cancer Research</i> , 2015, 75, 3663-3671.	0.4	158

#	ARTICLE	IF	CITATIONS
73	FDG-PET and Beyond: Molecular Breast Cancer Imaging. <i>Journal of Clinical Oncology</i> , 2005, 23, 1664-1673.	0.8	156
74	Targeted Contrast-Enhanced Ultrasound Imaging of Tumor Angiogenesis with Contrast Microbubbles Conjugated to Integrin-Binding Knottin Peptides. <i>Journal of Nuclear Medicine</i> , 2010, 51, 433-440.	2.8	156
75	HaloTag Protein-Mediated Site-Specific Conjugation of Bioluminescent Proteins to Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4936-4940.	7.2	153
76	Positron Emission Tomography Imaging of Cardiac Reporter Gene Expression in Living Rats. <i>Circulation</i> , 2002, 106, 180-183.	1.6	152
77	Molecular Imaging: The Vision and Opportunity for Radiology in the Future. <i>Radiology</i> , 2007, 244, 39-47.	3.6	151
78	Radiotheranostics: a roadmap for future development. <i>Lancet Oncology</i> , The, 2020, 21, e146-e156.	5.1	151
79	Optical Imaging of Cardiac Reporter Gene Expression in Living Rats. <i>Circulation</i> , 2002, 105, 1631-1634.	1.6	145
80	Tailoring the pharmacokinetics and positron emission tomography imaging properties of anti-carcinoembryonic antigen single-chain Fv-Fc antibody fragments. <i>Cancer Research</i> , 2005, 65, 622-31.	0.4	144
81	Quantitative imaging of the T cell antitumor response by positron-emission tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1232-1237.	3.3	141
82	Optical bioluminescence and positron emission tomography imaging of a novel fusion reporter gene in tumor xenografts of living mice. <i>Cancer Research</i> , 2003, 63, 1160-5.	0.4	140
83	The Fate and Toxicity of Raman-Active Silica-Gold Nanoparticles in Mice. <i>Science Translational Medicine</i> , 2011, 3, 79ra33.	5.8	139
84	Novel Radiotracer for ImmunoPET Imaging of PD-1 Checkpoint Expression on Tumor Infiltrating Lymphocytes. <i>Bioconjugate Chemistry</i> , 2015, 26, 2062-2069.	1.8	139
85	Pilot Pharmacokinetic and Dosimetric Studies of ¹⁸ F-FPPRGD2: A PET Radiopharmaceutical Agent for Imaging α -v β 3 Integrin Levels. <i>Radiology</i> , 2011, 260, 182-191.	3.6	131
86	Intraoperative Pancreatic Cancer Detection using Tumor-Specific Multimodality Molecular Imaging. <i>Annals of Surgical Oncology</i> , 2018, 25, 1880-1888.	0.7	127
87	Embryonic Stem Cell-Derived Endothelial Cells Engraft Into the Ischemic Hindlimb and Restore Perfusion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 984-991.	1.1	126
88	Molecular Imaging of Drug-Modulated Protein-Protein Interactions in Living Subjects. <i>Cancer Research</i> , 2004, 64, 2113-2119.	0.4	125
89	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
90	Affibody-based nanoprobe for HER2-expressing cell and tumor imaging. <i>Biomaterials</i> , 2011, 32, 2141-2148.	5.7	125

#	ARTICLE	IF	CITATIONS
91	Effects of epigenetic modulation on reporter gene expression: implications for stem cell imaging. <i>FASEB Journal</i> , 2006, 20, 106-108.	0.2	124
92	Endoscopic molecular imaging of human bladder cancer using a CD47 antibody. <i>Science Translational Medicine</i> , 2014, 6, 260ra148.	5.8	124
93	Molecular Engineering of a Two-Step Transcription Amplification (TSTA) System for Transgene Delivery in Prostate Cancer. <i>Molecular Therapy</i> , 2002, 5, 223-232.	3.7	123
94	Molecular Imaging Techniques in Body Imaging. <i>Radiology</i> , 2007, 245, 333-356.	3.6	121
95	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
96	PET imaging of herpes simplex virus type 1 thymidine kinase (HSV1-tk) or mutant HSV1-sr39tk reporter gene expression in mice and humans using [¹⁸ F]FHBG. <i>Nature Protocols</i> , 2006, 1, 3069-3074.	5.5	118
97	Multimodality imaging of tumor xenografts and metastases in mice with combined small-animal PET, small-animal CT, and bioluminescence imaging. <i>Journal of Nuclear Medicine</i> , 2007, 48, 295-303.	2.8	116
98	Firefly Luciferase Enzyme Fragment Complementation for Imaging in Cells and Living Animals. <i>Analytical Chemistry</i> , 2005, 77, 1295-1302.	3.2	114
99	Exploratory Clinical Trial of (4 <i>S</i>)-4-(3-[¹⁸ F]fluoropropyl)-L-glutamate for Imaging xCa ²⁺ Transporter Using Positron Emission Tomography in Patients with Non-Small Cell Lung or Breast Cancer. <i>Clinical Cancer Research</i> , 2012, 18, 5427-5437.	3.2	114
100	Imaging activated T cells predicts response to cancer vaccines. <i>Journal of Clinical Investigation</i> , 2018, 128, 2569-2580.	3.9	114
101	Integrating noninvasive molecular imaging into molecular medicine: an evolving paradigm. <i>Trends in Molecular Medicine</i> , 2007, 13, 183-191.	3.5	113
102	A mountable toilet system for personalized health monitoring via the analysis of excreta. <i>Nature Biomedical Engineering</i> , 2020, 4, 624-635.	11.6	112
103	Towards in vivo nuclear microscopy: iodine-125 imaging in mice using micro-pinholes. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2002, 29, 933-938.	3.3	111
104	Combinatorial Library Screening for Developing an Improved Split-Firefly Luciferase Fragment-Assisted Complementation System for Studying Protein-Protein Interactions. <i>Analytical Chemistry</i> , 2007, 79, 2346-2353.	3.2	111
105	Advanced contrast nanoagents for photoacoustic molecular imaging, cytometry, blood test and photothermal theranostics. <i>Contrast Media and Molecular Imaging</i> , 2011, 6, 346-369.	0.4	111
106	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
107	Atorvastatin prevents RhoC isoprenylation, invasion, and metastasis in human melanoma cells. <i>Molecular Cancer Therapeutics</i> , 2003, 2, 941-8.	1.9	109
108	Treatment of metastatic melanoma with an orally available inhibitor of the Ras-Raf-MAPK cascade. <i>Cancer Research</i> , 2003, 63, 5669-73.	0.4	109

#	ARTICLE	IF	CITATIONS
109	Glia-dependent TGF- β signaling, acting independently of the TH17 pathway, is critical for initiation of murine autoimmune encephalomyelitis. <i>Journal of Clinical Investigation</i> , 2007, 117, 3306-3315.	3.9	108
110	Imaging progress of herpes simplex virus type 1 thymidine kinase suicide gene therapy in living subjects with positron emission tomography. <i>Cancer Gene Therapy</i> , 2005, 12, 329-339.	2.2	107
111	Microfluidic Single-Cell Analysis Shows That Porcine Induced Pluripotent Stem Cell-Derived Endothelial Cells Improve Myocardial Function by Paracrine Activation. <i>Circulation Research</i> , 2012, 111, 882-893.	2.0	106
112	A Real-Time Clinical Endoscopic System for Intraluminal, Multiplexed Imaging of Surface-Enhanced Raman Scattering Nanoparticles. <i>PLoS ONE</i> , 2015, 10, e0123185.	1.1	106
113	Seeing is believing: Non-invasive, quantitative and repetitive imaging of reporter gene expression in living animals, using positron emission tomography. <i>Journal of Neuroscience Research</i> , 2000, 59, 699-705.	1.3	103
114	Covalent disulfide-linked anti-CEA diabody allows site-specific conjugation and radiolabeling for tumor targeting applications. <i>Protein Engineering, Design and Selection</i> , 2004, 17, 21-27.	1.0	102
115	Practical Immuno-PET Radiotracer Design Considerations for Human Immune Checkpoint Imaging. <i>Journal of Nuclear Medicine</i> , 2017, 58, 538-546.	2.8	102
116	Molecular Imaging of the Kinetics of Vascular Endothelial Growth Factor Gene Expression in Ischemic Myocardium. <i>Circulation</i> , 2004, 110, 685-691.	1.6	101
117	Visualizing Implanted Tumors in Mice with Magnetic Resonance Imaging Using Magnetotactic Bacteria. <i>Clinical Cancer Research</i> , 2009, 15, 5170-5177.	3.2	101
118	Engineered immune cells as highly sensitive cancer diagnostics. <i>Nature Biotechnology</i> , 2019, 37, 531-539.	9.4	101
119	Adenoviral Human BCL-2 Transgene Expression Attenuates Early Donor Cell Death After Cardiomyoblast Transplantation Into Ischemic Rat Hearts. <i>Circulation</i> , 2006, 114, I-174-I-180.	1.6	100
120	Functional and Transcriptional Characterization of Human Embryonic Stem Cell-Derived Endothelial Cells for Treatment of Myocardial Infarction. <i>PLoS ONE</i> , 2009, 4, e8443.	1.1	100
121	Cationic versus Neutral Microbubbles for Ultrasound-mediated Gene Delivery in Cancer. <i>Radiology</i> , 2012, 264, 721-732.	3.6	99
122	Positron-Emission Tomography Reporter Gene Expression Imaging in Rat Myocardium. <i>Circulation</i> , 2003, 107, 326-332.	1.6	95
123	Pharmacokinetically Stabilized Cystine Knot Peptides That Bind Alpha-v-Beta-6 Integrin with Single-Digit Nanomolar Affinities for Detection of Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2012, 18, 839-849.	3.2	95
124	Comparison of [18 F]FHBG and [14 C]FIAU for imaging of HSV1-tk reporter gene expression: adenoviral infection vs stable transfection. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2003, 30, 1547-1560.	3.3	94
125	Creating self-illuminating quantum dot conjugates. <i>Nature Protocols</i> , 2006, 1, 1160-1164.	5.5	94
126	An intramolecular folding sensor for imaging estrogen receptor-ligand interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15883-15888.	3.3	94

#	ARTICLE	IF	CITATIONS
127	Development and Application of Stable Phantoms for the Evaluation of Photoacoustic Imaging Instruments. PLoS ONE, 2013, 8, e75533.	1.1	94
128	Intracellular Aggregation of Multimodal Silica Nanoparticles for Ultrasound-Guided Stem Cell Implantation. Science Translational Medicine, 2013, 5, 177ra35.	5.8	92
129	An intravascular magnetic wire for the high-throughput retrieval of circulating tumour cells in vivo. Nature Biomedical Engineering, 2018, 2, 696-705.	11.6	92
130	PET imaging of colorectal cancer in xenograft-bearing mice by use of an 18F-labeled T84.66 anti-carcinoembryonic antigen diabody. Journal of Nuclear Medicine, 2007, 48, 304-10.	2.8	92
131	Molecular profiling of single circulating tumor cells from lung cancer patients. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8379-E8386.	3.3	90
132	PET imaging of transgene expression. Biological Psychiatry, 2000, 48, 337-348.	0.7	89
133	Reproducibility of 18F-FDG microPET Studies in Mouse Tumor Xenografts. Journal of Nuclear Medicine, 2007, 48, 602-607.	2.8	89
134	Noninvasive, Repetitive, Quantitative Measurement of Gene Expression from a Bicistronic Message by Positron Emission Tomography, Following Gene Transfer with Adenovirus. Molecular Therapy, 2002, 6, 73-82.	3.7	88
135	Preclinical Derivation and Imaging of Autologously Transplanted Canine Induced Pluripotent Stem Cells. Journal of Biological Chemistry, 2011, 286, 32697-32704.	1.6	88
136	Three-dimensional photoacoustic imaging using a two-dimensional CMUT array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 2411-2419.	1.7	87
137	Simultaneous transrectal ultrasound and photoacoustic human prostate imaging. Science Translational Medicine, 2019, 11, .	5.8	87
138	Twist1 Suppresses Senescence Programs and Thereby Accelerates and Maintains Mutant Kras-Induced Lung Tumorigenesis. PLoS Genetics, 2012, 8, e1002650.	1.5	86
139	Earlier Detection of Breast Cancer with Ultrasound Molecular Imaging in a Transgenic Mouse Model. Cancer Research, 2013, 73, 1689-1698.	0.4	85
140	Comparison of Optical Bioluminescence Reporter Gene and Superparamagnetic Iron Oxide MR Contrast Agent as Cell Markers for Noninvasive Imaging of Cardiac Cell Transplantation. Molecular Imaging and Biology, 2009, 11, 178-187.	1.3	84
141	“Same Day” Ex-vivo Regional Gene Therapy: A Novel Strategy to Enhance Bone Repair. Molecular Therapy, 2011, 19, 960-968.	3.7	84
142	Raman's “Effect” on Molecular Imaging. Journal of Nuclear Medicine, 2011, 52, 1839-1844.	2.8	84
143	Interrogating androgen receptor function in recurrent prostate cancer. Cancer Research, 2003, 63, 4552-60.	0.4	84
144	Micro“Positron Emission Tomography Imaging of Cardiac Gene Expression in Rats Using Bicistronic Adenoviral Vector-Mediated Gene Delivery. Circulation, 2004, 109, 1415-1420.	1.6	83

#	ARTICLE	IF	CITATIONS
145	Spontaneous and Controllable Activation of Suicide Gene Expression Driven by the Stress-Inducible Grp78 Promoter Resulting in Eradication of Sizable Human Tumors. <i>Human Gene Therapy</i> , 2004, 15, 553-561.	1.4	83
146	Imaging Gene Expression in Human Mesenchymal Stem Cells: From Small to Large Animals. <i>Radiology</i> , 2009, 252, 117-127.	3.6	83
147	Early Diagnosis of Ovarian Carcinoma: Is a Solution in Sight?. <i>Radiology</i> , 2011, 259, 329-345.	3.6	82
148	Synthesis of a New Heterobifunctional Linker, N-[4-(Aminoxy)butyl]maleimide, for Facile Access to a Thiol-Reactive 18F-Labeling Agent. <i>Bioconjugate Chemistry</i> , 2003, 14, 1253-1259.	1.8	81
149	Reporter gene imaging of protein-protein interactions in living subjects. <i>Current Opinion in Biotechnology</i> , 2007, 18, 31-37.	3.3	81
150	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
151	Preclinical Evaluation of Raman Nanoparticle Biodistribution for their Potential Use in Clinical Endoscopy Imaging. <i>Small</i> , 2011, 7, 2232-2240.	5.2	81
152	New Positron Emission Tomography (PET) Radioligand for Imaging β -1 Receptors in Living Subjects. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 8272-8282.	2.9	81
153	Surface-Enhanced Raman Scattering Nanoparticles for Multiplexed Imaging of Bladder Cancer Tissue Permeability and Molecular Phenotype. <i>ACS Nano</i> , 2018, 12, 9669-9679.	7.3	81
154	Oxidative Stress Mediates the Effects of Raman-Active Gold Nanoparticles in Human Cells. <i>Small</i> , 2011, 7, 126-136.	5.2	79
155	Fluorescent Magnetic Nanoparticles for Magnetically Enhanced Cancer Imaging and Targeting in Living Subjects. <i>ACS Nano</i> , 2012, 6, 6862-6869.	7.3	79
156	Tumor treating fields increases membrane permeability in glioblastoma cells. <i>Cell Death Discovery</i> , 2018, 4, 113.	2.0	79
157	Synthesis of 8-[¹⁸ F]fluoroguanine derivatives: in vivo probes for imaging gene expression with positron emission tomography. <i>Nuclear Medicine and Biology</i> , 2000, 27, 157-162.	0.3	78
158	Visualization of a primary anti-tumor immune response by positron emission tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17412-17417.	3.3	76
159	Transcriptional profiling of reporter genes used for molecular imaging of embryonic stem cell transplantation. <i>Physiological Genomics</i> , 2006, 25, 29-38.	1.0	76
160	Cell-free metabolic engineering promotes high-level production of bioactive <i>Gaussia princeps</i> luciferase. <i>Metabolic Engineering</i> , 2008, 10, 187-200.	3.6	75
161	Tissue-targeted therapy of autoimmune diabetes using dendritic cells transduced to express IL-4 in NOD mice. <i>Clinical Immunology</i> , 2008, 127, 176-187.	1.4	75
162	Regulatory Aspects of Optical Methods and Exogenous Targets for Cancer Detection. <i>Cancer Research</i> , 2017, 77, 2197-2206.	0.4	74

#	ARTICLE	IF	CITATIONS
163	Fusion of Gaussia Luciferase to an Engineered Anti-carcinoembryonic Antigen (CEA) Antibody for In Vivo Optical Imaging. <i>Molecular Imaging and Biology</i> , 2007, 9, 267-277.	1.3	73
164	First Experience with Clinical-Grade [18F]FPP(RGD)2: An Automated Multi-step Radiosynthesis for Clinical PET Studies. <i>Molecular Imaging and Biology</i> , 2012, 14, 88-95.	1.3	73
165	Evaluation of integrin $\alpha_6\beta_1$ cystine knot PET tracers to detect cancer and idiopathic pulmonary fibrosis. <i>Nature Communications</i> , 2019, 10, 4673.	5.8	73
166	Photoacoustic Tomography Detects Early Vessel Regression and Normalization During Ovarian Tumor Response to the Antiangiogenic Therapy Trebananib. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1942-1947.	2.8	72
167	ICOS Is an Indicator of T-cell-Mediated Response to Cancer Immunotherapy. <i>Cancer Research</i> , 2020, 80, 3023-3032.	0.4	72
168	Multiparametric Photoacoustic Analysis of Human Thyroid Cancers <i>In Vivo</i> . <i>Cancer Research</i> , 2021, 81, 4849-4860.	0.4	72
169	Decision Analysis for the Cost-Effective Management of Recurrent Colorectal Cancer. <i>Annals of Surgery</i> , 2001, 233, 310-319.	2.1	71
170	Monitoring of the Biological Response to Murine Hindlimb Ischemia With ⁶⁴ Cu-Labeled Vascular Endothelial Growth Factor-121 Positron Emission Tomography. <i>Circulation</i> , 2008, 117, 915-922.	1.6	69
171	The Immunoimaging Toolbox. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1174-1182.	2.8	68
172	Cancer Screening: A Mathematical Model Relating Secreted Blood Biomarker Levels to Tumor Sizes. <i>PLoS Medicine</i> , 2008, 5, e170.	3.9	67
173	Cardiovascular Molecular Imaging. <i>Radiology</i> , 2007, 244, 337-355.	3.6	66
174	Molecular imaging of homodimeric protein-protein interactions in living subjects. <i>FASEB Journal</i> , 2004, 18, 1105-1107.	0.2	65
175	Novel Fusion Protein Approach for Efficient High-Throughput Screening of Small Molecule-Mediating Protein-Protein Interactions in Cells and Living Animals. <i>Cancer Research</i> , 2005, 65, 7413-7420.	0.4	65
176	[¹⁸ F]GE-180 PET Detects Reduced Microglia Activation After LM11A-31 Therapy in a Mouse Model of Alzheimer's Disease. <i>Theranostics</i> , 2017, 7, 1422-1436.	4.6	64
177	Indirect Monitoring of Endogenous Gene Expression by Positron Emission Tomography (PET) Imaging of Reporter Gene Expression in Transgenic Mice. <i>Molecular Imaging and Biology</i> , 2002, 4, 71-81.	1.3	62
178	Noninvasive Imaging of Enhanced Prostate-Specific Gene Expression Using a Two-Step Transcriptional Amplification-Based Lentivirus Vector. <i>Molecular Therapy</i> , 2004, 10, 545-552.	3.7	62
179	Whole-body skeletal imaging in mice utilizing microPET: optimization of reproducibility and applications in animal models of bone disease. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2002, 29, 1225-1236.	3.3	61
180	Gene therapy imaging in patients for oncological applications. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2005, 32, S384-S403.	3.3	61

#	ARTICLE	IF	CITATIONS
181	A molecularly engineered split reporter for imaging protein-protein interactions with positron emission tomography. <i>Nature Medicine</i> , 2010, 16, 921-926.	15.2	61
182	A Dual-Labeled Knottin Peptide for PET and Near-Infrared Fluorescence Imaging of Integrin Expression in Living Subjects. <i>Bioconjugate Chemistry</i> , 2010, 21, 436-444.	1.8	61
183	Circulating Tumor Microemboli Diagnostics for Patients with Non-Small-Cell Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2014, 9, 1111-1119.	0.5	61
184	Antiviral drug ganciclovir is a potent inhibitor of microglial proliferation and neuroinflammation. <i>Journal of Experimental Medicine</i> , 2014, 211, 189-198.	4.2	61
185	Emerging Intraoperative Imaging Modalities to Improve Surgical Precision. <i>Molecular Imaging and Biology</i> , 2018, 20, 705-715.	1.3	61
186	Multimodality imaging of lymphocytic migration using lentiviral-based transduction of a tri-fusion reporter gene. <i>Molecular Imaging and Biology</i> , 2004, 6, 331-340.	1.3	60
187	Molecular Imaging of Inflammation in Inflammatory Bowel Disease with a Clinically Translatable Dual-Selectin-targeted US Contrast Agent: Comparison with FDG PET/CT in a Mouse Model. <i>Radiology</i> , 2013, 267, 818-829.	3.6	60
188	Optical coherence contrast imaging using gold nanorods in living mice eyes. <i>Clinical and Experimental Ophthalmology</i> , 2015, 43, 358-366.	1.3	60
189	Molecular imaging agents for ultrasound. <i>Current Opinion in Chemical Biology</i> , 2018, 45, 113-120.	2.8	60
190	Molecular imaging of cardiovascular gene products. <i>Journal of Nuclear Cardiology</i> , 2004, 11, 491-505.	1.4	59
191	Quantitation of cell number by a positron emission tomography reporter gene strategy. <i>Molecular Imaging and Biology</i> , 2004, 6, 139-148.	1.3	59
192	Comparison of [14C]FMAU, [3H]FEAU, [14C]FIAU, and [3H]PCV for Monitoring Reporter Gene Expression of Wild Type and Mutant Herpes Simplex Virus Type 1 Thymidine Kinase in Cell Culture. <i>Molecular Imaging and Biology</i> , 2005, 7, 296-303.	1.3	59
193	A 2-Helix Small Protein Labeled with ⁶⁸ Ga for PET Imaging of HER2 Expression. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1492-1499.	2.8	58
194	High-sensitivity, real-time, ratiometric imaging of surface-enhanced Raman scattering nanoparticles with a clinically translatable Raman endoscope device. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	1.4	58
195	Noninvasive Imaging of Cationic Lipid-Mediated Delivery of Optical and PET Reporter Genes in Living Mice. <i>Molecular Therapy</i> , 2002, 6, 555-562.	3.7	57
196	Lymphoid tissue-specific homing of bone marrow-derived dendritic cells. <i>Blood</i> , 2009, 113, 6638-6647.	0.6	57
197	Preclinical safety evaluation of 18F-FHBC: a PET reporter probe for imaging herpes simplex virus type 1 thymidine kinase (HSV1-tk) or mutant HSV1-sr39tk's expression. <i>Journal of Nuclear Medicine</i> , 2006, 47, 706-15.	2.8	57
198	Bifunctional antibody-Renilla luciferase fusion protein for in vivo optical detection of tumors. <i>Protein Engineering, Design and Selection</i> , 2006, 19, 453-460.	1.0	56

#	ARTICLE	IF	CITATIONS
199	Multitarget, quantitative nanoplasmonic electrical field-enhanced resonating device (NE Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50) States of America, 2015, 112, E4354-63.	3.3	56
200	Solâ€“Gel Synthesis and Electrospaying of Biodegradable (P₂O₅)₅₅â€“(CaO)₃₀â€“(Na₂O)₁₅ Glass Nanospheres as a Transient Contrast Agent for Ultrasound Stem Cell Imaging. ACS Nano, 2015, 9, 1868-1877.	7.3	55
201	Microvesicle-Mediated Delivery of Minicircle DNA Results in Effective Gene-Directed Enzyme Prodrug Cancer Therapy. Molecular Cancer Therapeutics, 2019, 18, 2331-2342.	1.9	54
202	Use of⁶⁴Cu-labeled Fibronectin Domain with EGFR-Overexpressing Tumor Xenograft: Molecular Imaging. Radiology, 2012, 263, 179-188.	3.6	53
203	Molecular Imaging of Chimeric Antigen Receptor T Cells by ICOS-ImmunoPET. Clinical Cancer Research, 2021, 27, 1058-1068.	3.2	53
204	Optimization of adenoviral vectors to direct highly amplified prostate-specific expression for imaging and gene therapy. Molecular Therapy, 2003, 8, 726-737.	3.7	52
205	Applications of Molecular Imaging in Cancer Gene Therapy. Current Gene Therapy, 2005, 5, 607-618.	0.9	52
206	Cys-diabody Quantum Dot Conjugates (ImmunoQdots) for Cancer Marker Detection. Bioconjugate Chemistry, 2009, 20, 1474-1481.	1.8	52
207	Reconstructed Apoptotic Bodies as Targeted â€œNano Decoysâ€•to Treat Intracellular Bacterial Infections within Macrophages and Cancer Cells. ACS Nano, 2020, 14, 5818-5835.	7.3	52
208	Pilot Preclinical and Clinical Evaluation of (4S)-4-(3-[18F]Fluoropropyl)-L-Glutamate (18F-FSPG) for PET/CT Imaging of Intracranial Malignancies. PLoS ONE, 2016, 11, e0148628.	1.1	51
209	Molecular Imaging: Integration of Molecular Imaging into the Musculoskeletal Imaging Practice. Radiology, 2007, 244, 651-671.	3.6	50
210	Noninvasive indirect imaging of vascular endothelial growth factor gene expression using bioluminescence imaging in living transgenic mice. Physiological Genomics, 2006, 24, 173-180.	1.0	49
211	Direct Site-Specific Radiolabeling of an Affibody Protein with 4-[18F]Fluorobenzaldehyde via Oxime Chemistry. Molecular Imaging and Biology, 2008, 10, 177-181.	1.3	49
212	Longitudinal, Noninvasive Imaging of T-Cell Effector Function and Proliferation in Living Subjects. Cancer Research, 2010, 70, 10141-10149.	0.4	49
213	Positron emission tomography imaging analysis of G2A as a negative modifier of lymphoid leukemogenesis initiated by the BCR-ABL oncogene. Cancer Cell, 2002, 1, 381-391.	7.7	48
214	Bioluminescent Imaging of Melanoma in Live Mice. Journal of Investigative Dermatology, 2005, 125, 159-165.	0.3	48
215	¹⁸F-Fluorobenzoateâ€“Labeled Cystine Knot Peptides for PET Imaging of Integrin Î±_vÎ²₆. Journal of Nuclear Medicine, 2013, 54, 1101-1105.	2.8	48
216	Evolution of BRET Biosensors from Live Cell to Tissue-Scale In vivo Imaging. Frontiers in Endocrinology, 2013, 4, 131.	1.5	48

#	ARTICLE	IF	CITATIONS
217	Cellulose nanoparticles are a biodegradable photoacoustic contrast agent for use in living mice. Photoacoustics, 2014, 2, 119-127.	4.4	48
218	A Systematic Comparison of ¹⁸ F-C-SNAT to Established Radiotracer Imaging Agents for the Detection of Tumor Response to Treatment. Clinical Cancer Research, 2015, 21, 3896-3905.	3.2	48
219	Ultrasound/microbubble-mediated targeted delivery of anticancer microRNA-loaded nanoparticles to deep tissues in pigs. Journal of Controlled Release, 2019, 309, 1-10.	4.8	48
220	PET Imaging of Translocator Protein (18 kDa) in a Mouse Model of Alzheimer's Disease Using ¹⁸ F-Fluoro-(2,5-Dimethoxybenzyl)-2-(2-Phenoxyphenyl)Acetamide. Journal of Nuclear Medicine, 2015, 56, 311-316.	2.8	47
221	Molecular Imaging of PET Reporter Gene Expression. Handbook of Experimental Pharmacology, 2008, , 277-303.	0.9	46
222	Detecting cancers through tumor-activatable minicircles that lead to a detectable blood biomarker. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3068-3073.	3.3	46
223	Visualizing Nerve Injury in a Neuropathic Pain Model with [¹⁸ F]FTC-146 PET/MRI. Theranostics, 2017, 7, 2794-2805.	4.6	46
224	Intravital imaging reveals synergistic effect of CAR T-cells and radiation therapy in a preclinical immunocompetent glioblastoma model. Oncoimmunology, 2020, 9, 1757360.	2.1	46
225	PET of Malignant Melanoma Using ¹⁸ F-Labeled Metallopeptides. Journal of Nuclear Medicine, 2009, 50, 1865-1872.	2.8	45
226	Evaluation of ¹⁸ F-1 Receptor Radioligand ¹⁸ F-FTC-146 in Rats and Squirrel Monkeys Using PET. Journal of Nuclear Medicine, 2014, 55, 147-153.	2.8	44
227	Imaging chemically modified adenovirus for targeting tumors expressing integrin alphavbeta3 in living mice with mutant herpes simplex virus type 1 thymidine kinase PET reporter gene. Journal of Nuclear Medicine, 2006, 47, 130-9.	2.8	44
228	Functionality of Androgen Receptor-Based Gene Expression Imaging in Hormone Refractory Prostate Cancer. Clinical Cancer Research, 2005, 11, 3743-3749.	3.2	43
229	A strategy for blood biomarker amplification and localization using ultrasound. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17152-17157.	3.3	43
230	PET Imaging of Tumor Neovascularization in a Transgenic Mouse Model with a Novel ⁶⁴ Cu-DOTA-Knottin Peptide. Cancer Research, 2010, 70, 9022-9030.	0.4	43
231	A Comparison Between a Time Domain and Continuous Wave Small Animal Optical Imaging System. IEEE Transactions on Medical Imaging, 2008, 27, 58-63.	5.4	42
232	Comparison Between Adenoviral and Retroviral Vectors for the Transduction of the Thymidine Kinase PET Reporter Gene in Rat Mesenchymal Stem Cells. Journal of Nuclear Medicine, 2008, 49, 1836-1844.	2.8	42
233	A c-Myc Activation Sensor-Based High-Throughput Drug Screening Identifies an Antineoplastic Effect of Nitazoxanide. Molecular Cancer Therapeutics, 2013, 12, 1896-1905.	1.9	42
234	Assessment of Tumor Redox Status through ¹⁸ F-4-(3-[¹⁸ F]fluoropropyl)-L-Glutamic Acid PET Imaging of System xc ⁻ Activity. Cancer Research, 2022, 79, 853-863.	0.4	42

#	ARTICLE	IF	CITATIONS
235	Reduction Triggered <i>In Situ</i> Polymerization in Living Mice. <i>Journal of the American Chemical Society</i> , 2020, 142, 15575-15584.	6.6	42
236	Novel Bidirectional Vector Strategy for Amplification of Therapeutic and Reporter Gene Expression. <i>Human Gene Therapy</i> , 2004, 15, 681-690.	1.4	41
237	Nanomedicine for Spontaneous Brain Tumors: A Companion Clinical Trial. <i>ACS Nano</i> , 2019, 13, 2858-2869.	7.3	41
238	Optimizing Prostate Cancer Suicide Gene Therapy Using Herpes Simplex Virus Thymidine Kinase Active Site Variants. <i>Human Gene Therapy</i> , 2002, 13, 777-789.	1.4	40
239	In Vitro and in Vivo Molecular Imaging of Estrogen Receptor α and β Homo- and Heterodimerization: Exploration of New Modes of Receptor Regulation. <i>Molecular Endocrinology</i> , 2011, 25, 2029-2040.	3.7	40
240	Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scattering—Nanoparticle Endoscopy. <i>ACS Nano</i> , 2019, 13, 1354-1364.	7.3	40
241	Glioblastoma Therapy with Cytotoxic Mesenchymal Stromal Cells Optimized by Bioluminescence Imaging of Tumor and Therapeutic Cell Response. <i>PLoS ONE</i> , 2012, 7, e35148.	1.1	40
242	Facile Synthesis, Silanization, and Biodistribution of Biocompatible Quantum Dots. <i>Small</i> , 2010, 6, 1520-1528.	5.2	39
243	Cerenkov Luminescence Endoscopy: Improved Molecular Sensitivity with β -Emitting Radiotracers. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1905-1909.	2.8	39
244	Imaging of hepatocellular carcinoma patient-derived xenografts using ^{89}Zr -labeled anti-glypican-3 monoclonal antibody. <i>Biomaterials</i> , 2014, 35, 6964-6971.	5.7	39
245	A High-Affinity, High-Stability Photoacoustic Agent for Imaging Gastrin-Releasing Peptide Receptor in Prostate Cancer. <i>Clinical Cancer Research</i> , 2014, 20, 3721-3729.	3.2	39
246	Continuous health monitoring: An opportunity for precision health. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	39
247	Noninvasive molecular imaging of c-Myc activation in living mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15892-15897.	3.3	38
248	A protease-activated, near-infrared fluorescent probe for early endoscopic detection of premalignant gastrointestinal lesions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	38
249	Semiautomated Radiosynthesis and Biological Evaluation of ^{18}F FEAU: A Novel PET Imaging Agent for HSV1-tk/sr39tk Reporter Gene Expression. <i>Molecular Imaging and Biology</i> , 2008, 10, 82-91.	1.3	37
250	Chapter 7 Molecular Imaging of Tumor Vasculature. <i>Methods in Enzymology</i> , 2008, 445, 141-176.	0.4	37
251	Advances in Diagnostic and Intraoperative Molecular Imaging of Pancreatic Cancer. <i>Pancreas</i> , 2018, 47, 675-689.	0.5	37
252	Evaluating tumor biology and oncological disease with positron-emission tomography. <i>Seminars in Radiation Oncology</i> , 1998, 8, 183-196.	1.0	36

#	ARTICLE	IF	CITATIONS
253	Development of a Novel Long-Lived ImmunoPET Tracer for Monitoring Lymphoma Therapy in a Humanized Transgenic Mouse Model. <i>Bioconjugate Chemistry</i> , 2012, 23, 1221-1229.	1.8	36
254	An Integrated Computational/Experimental Model of Lymphoma Growth. <i>PLoS Computational Biology</i> , 2013, 9, e1003008.	1.5	36
255	Integrin-Targeted Molecular Imaging of Experimental Abdominal Aortic Aneurysms by ¹⁸ F-labeled Arg-Gly-Asp Positron-Emission Tomography. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 950-956.	1.3	36
256	A Quantitative Physiologic Model of Blood Oxygenation for Functional Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 1995, 30, 669-682.	3.5	35
257	Human Flexor Tendon Tissue Engineering: Revitalization of Biostatic Allograft Scaffolds. <i>Tissue Engineering - Part A</i> , 2012, 18, 2406-2417.	1.6	35
258	Imaging B Cells in a Mouse Model of Multiple Sclerosis Using ⁶⁴ Cu-Rituximab PET. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1845-1851.	2.8	35
259	Regulatory and Reimbursement Challenges for Molecular Imaging. <i>Radiology</i> , 2007, 245, 645-660.	3.6	34
260	AshwaMAX and Withaferin A inhibits gliomas in cellular and murine orthotopic models. <i>Journal of Neuro-Oncology</i> , 2016, 126, 253-264.	1.4	34
261	Biodistribution and Radiation Dosimetry of ¹⁸ F-FTC-146 in Humans. <i>Journal of Nuclear Medicine</i> , 2017, 58, 2004-2009.	2.8	34
262	Development and Preclinical Validation of a Cysteine Knottin Peptide Targeting Integrin $\alpha_5\beta_1$ for Near-infrared Fluorescent-guided Surgery in Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2018, 24, 1667-1676.	3.2	34
263	Micro-PET/CT Monitoring of Herpes Thymidine Kinase Suicide Gene Therapy in a Prostate Cancer Xenograft: The Advantage of a Cell-specific Transcriptional Targeting Approach. <i>Molecular Imaging</i> , 2005, 4, 7290.2005.05154.	0.7	33
264	Engineered Two- α -Helix Small Proteins for Molecular Recognition. <i>ChemBioChem</i> , 2009, 10, 1293-1296.	1.3	33
265	Evaluation of Firefly Luciferase Bioluminescence Mediated Photodynamic Toxicity in Cancer Cells. <i>Molecular Imaging and Biology</i> , 2006, 8, 218-225.	1.3	32
266	Monitoring the Antitumor Response of Naive and Memory CD8 T Cells in RAG1 ^{-/-} Mice by Positron-Emission Tomography. <i>Journal of Immunology</i> , 2006, 176, 4459-4467.	0.4	32
267	Thy1-Targeted Microbubbles for Ultrasound Molecular Imaging of Pancreatic Ductal Adenocarcinoma. <i>Clinical Cancer Research</i> , 2018, 24, 1574-1585.	3.2	32
268	An Observational Study of Circulating Tumor Cells and 18F-FDG PET Uptake in Patients with Treatment-Naive Non-Small Cell Lung Cancer. <i>PLoS ONE</i> , 2013, 8, e67733.	1.1	32
269	A tracer kinetic model for 18F-FHBG for quantitating herpes simplex virus type 1 thymidine kinase reporter gene expression in living animals using PET. <i>Journal of Nuclear Medicine</i> , 2004, 45, 1560-70.	2.8	32
270	Rapid synthesis of a 5 α -fluorinated oligodeoxy-nucleotide: A model antisense probe for use in imaging with positron emission tomography (PET). <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 1317-1320.	1.0	31

#	ARTICLE	IF	CITATIONS
271	CL1-SR39: A Noninvasive Molecular Imaging Model of Prostate Cancer Suicide Gene Therapy Using Positron Emission Tomography. <i>Journal of Urology</i> , 2002, 168, 1193-1198.	0.2	31
272	MicroPET imaging of prostate cancer in LNCAP-SR39TK-GFP mouse xenografts. <i>Prostate</i> , 2003, 55, 39-47.	1.2	31
273	A Potent, Imaging Adenoviral Vector Driven by the Cancer-selective Mucin-1 Promoter That Targets Breast Cancer Metastasis. <i>Clinical Cancer Research</i> , 2009, 15, 3126-3134.	3.2	31
274	¹⁸ F-FPRGD2 PET/CT Imaging of Integrin $\alpha_5\beta_1$ in Renal Carcinomas: Correlation with Histopathology. <i>Journal of Nuclear Medicine</i> , 2015, 56, 361-364.	2.8	31
275	Synthesis of [18F]-labelled Maltose Derivatives as PET Tracers for Imaging Bacterial Infection. <i>Molecular Imaging and Biology</i> , 2015, 17, 168-176.	1.3	31
276	Reproducibility of 3'-deoxy-3'-(18)F-fluorothymidine microPET studies in tumor xenografts in mice. <i>Journal of Nuclear Medicine</i> , 2005, 46, 1851-7.	2.8	31
277	In Vivo Bioluminescence Tumor Imaging of RGD Peptide-modified Adenoviral Vector Encoding Firefly Luciferase Reporter Gene. <i>Molecular Imaging and Biology</i> , 2007, 9, 126-134.	1.3	30
278	Noninvasive Imaging of Therapeutic Gene Expression Using a Bidirectional Transcriptional Amplification Strategy. <i>Molecular Therapy</i> , 2008, 16, 1848-1856.	3.7	30
279	Deactivated CRISPR Associated Protein 9 for Minor-Allele Enrichment in Cell-Free DNA. <i>Clinical Chemistry</i> , 2018, 64, 307-316.	1.5	30
280	A Novel Engineered Small Protein for Positron Emission Tomography Imaging of Human Programmed Death Ligand-1: Validation in Mouse Models and Human Cancer Tissues. <i>Clinical Cancer Research</i> , 2019, 25, 1774-1785.	3.2	30
281	Comparison of Deconvolution Filters for Photoacoustic Tomography. <i>PLoS ONE</i> , 2016, 11, e0152597.	1.1	30
282	In Vivo Optical Bioluminescence Imaging of Collagen-supported Cardiac Cell Grafts. <i>Journal of Heart and Lung Transplantation</i> , 2007, 26, 273-280.	0.3	29
283	Noninvasive monitoring of target gene expression by imaging reporter gene expression in living animals using improved bicistronic vectors. <i>Journal of Nuclear Medicine</i> , 2005, 46, 667-74.	2.8	29
284	Biodegradable Fluorescent Nanoparticles for Endoscopic Detection of Colorectal Carcinogenesis. <i>Advanced Functional Materials</i> , 2019, 29, 1904992.	7.8	28
285	Detection of visually occult metastatic lymph nodes using molecularly targeted fluorescent imaging during surgical resection of pancreatic cancer. <i>Hpb</i> , 2019, 21, 883-890.	0.1	28
286	The lag of cerebral hemodynamics with rapidly alternating periodic stimulation: modeling for functional MRI. <i>Magnetic Resonance Imaging</i> , 1999, 17, 9-20.	1.0	27
287	Implantable semiconductor biosensor for continuous in vivo sensing of far-red fluorescent molecules. <i>Optics Express</i> , 2010, 18, 12513.	1.7	27
288	Noninvasive Monitoring of Oxidative Stress in Transplanted Mesenchymal Stromal Cells. <i>JACC: Cardiovascular Imaging</i> , 2013, 6, 795-802.	2.3	27

#	ARTICLE	IF	CITATIONS
289	A correlative optical microscopy and scanning electron microscopy approach to locating nanoparticles in brain tumors. <i>Micron</i> , 2015, 68, 70-76.	1.1	27
290	A Clinical Wide-Field Fluorescence Endoscopic Device for Molecular Imaging Demonstrating Cathepsin Protease Activity in Colon Cancer. <i>Molecular Imaging and Biology</i> , 2016, 18, 820-829.	1.3	27
291	Measuring herpes simplex virus thymidine kinase reporter gene expression in vitro. <i>Nature Protocols</i> , 2006, 1, 2137-2142.	5.5	26
292	Bioluminescence Imaging of Systemic Tumor Targeting Using a Prostate-Specific Lentiviral Vector. <i>Human Gene Therapy</i> , 2006, 17, 125-132.	1.4	26
293	Antioxidants Improve Early Survival of Cardiomyoblasts After Transplantation to the Myocardium. <i>Molecular Imaging and Biology</i> , 2010, 12, 325-334.	1.3	26
294	PET of cardiac transgene expression: comparison of 2 approaches based on herpesviral thymidine kinase reporter gene. <i>Journal of Nuclear Medicine</i> , 2004, 45, 1917-23.	2.8	26
295	Tracking Cellular and Immune Therapies in Cancer. <i>Advances in Cancer Research</i> , 2014, 124, 257-296.	1.9	25
296	Radiosynthesis and First-In-Human PET/MRI Evaluation with Clinical-Grade [18F]FTC-146. <i>Molecular Imaging and Biology</i> , 2017, 19, 779-786.	1.3	25
297	Synergistic inhibition of glioma cell proliferation by Withaferin A and tumor treating fields. <i>Journal of Neuro-Oncology</i> , 2017, 134, 259-268.	1.4	25
298	PET Imaging of TIGIT Expression on Tumor-Infiltrating Lymphocytes. <i>Clinical Cancer Research</i> , 2021, 27, 1932-1940.	3.2	25
299	Use of DNA Microarray and Small Animal Positron Emission Tomography in Preclinical Drug Evaluation of RAF265, a Novel B-Raf/VEGFR-2 Inhibitor. <i>Neoplasia</i> , 2011, 13, 266-277.	2.3	24
300	Noninvasive Monitoring of Placenta-Specific Transgene Expression by Bioluminescence Imaging. <i>PLoS ONE</i> , 2011, 6, e16348.	1.1	24
301	Optical Imaging with Her2-Targeted Affibody Molecules Can Monitor Hsp90 Treatment Response in a Breast Cancer Xenograft Mouse Model. <i>Clinical Cancer Research</i> , 2012, 18, 1073-1081.	3.2	24
302	18F-FAZA PET Imaging Response Tracks the Reoxygenation of Tumors in Mice upon Treatment with the Mitochondrial Complex I Inhibitor BAY 87-2243. <i>Clinical Cancer Research</i> , 2015, 21, 335-346.	3.2	24
303	PET Reporter Gene Imaging and Ganciclovir-Mediated Ablation of Chimeric Antigen Receptor T Cells in Solid Tumors. <i>Cancer Research</i> , 2020, 80, 4731-4740.	0.4	24
304	Predictive Modeling of Drug Response in Non-Hodgkin's Lymphoma. <i>PLoS ONE</i> , 2015, 10, e0129433.	1.1	24
305	Imaging androgen receptor function during flutamide treatment in the LAPC9 xenograft model. <i>Molecular Cancer Therapeutics</i> , 2005, 4, 1662-1669.	1.9	23
306	Discovery and validation of small-molecule heat-shock protein 90 inhibitors through multimodality molecular imaging in living subjects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2476-85.	3.3	23

#	ARTICLE	IF	CITATIONS
307	Impact of Screening Test Performance and Cost on Mortality Reduction and Cost-effectiveness of Multimodal Ovarian Cancer Screening. <i>Cancer Prevention Research</i> , 2012, 5, 1015-1024.	0.7	23
308	Further validation to support clinical translation of [18F]FTC-146 for imaging sigma-1 receptors. <i>EJNMMI Research</i> , 2015, 5, 49.	1.1	23
309	Remodeling of Endogenous Mammary Epithelium by Breast Cancer Stem Cells. <i>Stem Cells</i> , 2012, 30, 2114-2127.	1.4	22
310	Gene expression tomography. <i>Physiological Genomics</i> , 2002, 8, 159-167.	1.0	21
311	Designed hydrophilic and charge mutations of the fibronectin domain: towards tailored protein biodistribution. <i>Protein Engineering, Design and Selection</i> , 2012, 25, 639-648.	1.0	21
312	Tissue-engineered Collateral Ligament Composite Allografts for Scapholunate Ligament Reconstruction: An Experimental Study. <i>Journal of Hand Surgery</i> , 2012, 37, 1529-1537.	0.7	21
313	Detection of Osseous Metastasis by 18F-NaF/18F-FDG PET/CT Versus CT Alone. <i>Clinical Nuclear Medicine</i> , 2015, 40, e173-e177.	0.7	21
314	Visualization of Activated T Cells by OX40-ImmunoPET as a Strategy for Diagnosis of Acute Graft-versus-Host Disease. <i>Cancer Research</i> , 2020, 80, 4780-4790.	0.4	21
315	Development and Validation of an Immuno-PET Tracer as a Companion Diagnostic Agent for Antibody-Drug Conjugate Therapy to Target the CA6 Epitope. <i>Radiology</i> , 2015, 276, 191-198.	3.6	20
316	Withaferin A and its potential role in glioblastoma (GBM). <i>Journal of Neuro-Oncology</i> , 2017, 131, 201-211.	1.4	20
317	A low noise current readout architecture for fluorescence detection in living subjects. , 2011, , .		19
318	A Scanning Transmission Electron Microscopy Approach to Analyzing Large Volumes of Tissue to Detect Nanoparticles. <i>Microscopy and Microanalysis</i> , 2013, 19, 1290-1297.	0.2	19
319	PET Imaging of the Natural Killer Cell Activation Receptor NKp30. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1348-1354.	2.8	19
320	Noninvasive and Highly Multiplexed Five-Color Tumor Imaging of Multicore Near-Infrared Resonant Surface-Enhanced Raman Nanoparticles <i>In Vivo</i> . <i>ACS Nano</i> , 2021, 15, 19956-19969.	7.3	19
321	"Flying through" and "flying around" a PET/CT scan: Pilot study and development of 3D integrated 18F-FDG PET/CT for virtual bronchoscopy and colonoscopy. <i>Journal of Nuclear Medicine</i> , 2006, 47, 1081-7.	2.8	19
322	Imaging Mitogen-Activated Protein Kinase Function in Xenograft Models of Prostate Cancer. <i>Cancer Research</i> , 2006, 66, 10778-10785.	0.4	17
323	Molecular Imaging of Biological Gene Delivery Vehicles for Targeted Cancer Therapy: Beyond Viral Vectors. <i>Nuclear Medicine and Molecular Imaging</i> , 2010, 44, 15-24.	0.6	17
324	Immobilizing Reporters for Molecular Imaging of the Extracellular Microenvironment in Living Animals. <i>ACS Chemical Biology</i> , 2011, 6, 1117-1126.	1.6	17

#	ARTICLE	IF	CITATIONS
325	Quantitative photoacoustic image reconstruction improves accuracy in deep tissue structures. <i>Biomedical Optics Express</i> , 2016, 7, 3811.	1.5	17
326	A transgenic mouse model expressing an ER α folding biosensor reveals the effects of Bisphenol A on estrogen receptor signaling. <i>Scientific Reports</i> , 2016, 6, 34788.	1.6	17
327	Micro-PET/CT monitoring of herpes thymidine kinase suicide gene therapy in a prostate cancer xenograft: the advantage of a cell-specific transcriptional targeting approach. <i>Molecular Imaging</i> , 2005, 4, 463-72.	0.7	17
328	Noninvasive Evaluation of Immunosuppressive Drug Efficacy on Acute Donor Cell Survival. <i>Molecular Imaging and Biology</i> , 2006, 8, 163-170.	1.3	16
329	Exogenous MC3T3 Preosteoblasts Migrate Systemically and Mitigate the Adverse Effects of Wear Particles. <i>Tissue Engineering - Part A</i> , 2012, 18, 2559-2567.	1.6	16
330	Intratumoral versus Intravenous Gene Therapy Using a Transcriptionally Targeted Viral Vector in an Orthotopic Hepatocellular Carcinoma Rat Model. <i>Journal of Vascular and Interventional Radiology</i> , 2012, 23, 704-711.	0.2	16
331	[¹⁸ F]FPRGD2 PET/CT imaging of integrin $\alpha_5\beta_3$ levels in patients with locally advanced rectal carcinoma. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 654-662.	3.3	16
332	Embryonic Stem Cell-Derived Endothelial Cells for Treatment of Hindlimb Ischemia. <i>Journal of Visualized Experiments</i> , 2009, , .	0.2	15
333	A Magnetic Bead-Based Sensor for the Quantification of Multiple Prostate Cancer Biomarkers. <i>PLoS ONE</i> , 2015, 10, e0139484.	1.1	15
334	Characterization of Physiologic ¹⁸ F FSPG Uptake in Healthy Volunteers. <i>Radiology</i> , 2016, 279, 898-905.	3.6	15
335	Clinical Evaluation of (4S)-4-(3-[¹⁸ F]Fluoropropyl)-L-glutamate (18F-FSPG) for PET/CT Imaging in Patients with Newly Diagnosed and Recurrent Prostate Cancer. <i>Clinical Cancer Research</i> , 2020, 26, 5380-5387.	3.2	15
336	Multiparameter Longitudinal Imaging of Immune Cell Activity in Chimeric Antigen Receptor T Cell and Checkpoint Blockade Therapies. <i>ACS Central Science</i> , 2022, 8, 590-602.	5.3	15
337	Noninvasive Imaging of ex Vivo Intracoronarily Delivered Nonviral Therapeutic Transgene Expression in Heart. <i>Molecular Therapy</i> , 2005, 12, 49-57.	3.7	14
338	Response to Intra-Arterial Oncolytic Virotherapy with the Herpes Virus NV1020 Evaluated by [¹⁸ F]Fluorodeoxyglucose Positron Emission Tomography and Computed Tomography. <i>Human Gene Therapy</i> , 2012, 23, 91-97.	1.4	14
339	Advanced Characterization Techniques for Nanoparticles for Cancer Research: Applications of SEM and NanoSIMS for Locating Au Nanoparticles in Cells. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1569, 157-163.	0.1	14
340	Multiscale Framework for Imaging Radiolabeled Therapeutics. <i>Molecular Pharmaceutics</i> , 2015, 12, 4554-4560.	2.3	14
341	Simultaneous PET/MRI in the Evaluation of Breast and Prostate Cancer Using Combined Na[¹⁸ F] F and [¹⁸ F]FDG: a Focus on Skeletal Lesions. <i>Molecular Imaging and Biology</i> , 2020, 22, 397-406.	1.3	14
342	Giant Magnetoresistive Nanosensor Analysis of Circulating Tumor DNA Epidermal Growth Factor Receptor Mutations for Diagnosis and Therapy Response Monitoring. <i>Clinical Chemistry</i> , 2021, 67, 534-542.	1.5	14

#	ARTICLE	IF	CITATIONS
343	Studying the biodistribution of positron emission tomography reporter probes in mice. <i>Nature Protocols</i> , 2007, 2, 1752-1755.	5.5	13
344	A novel ¹⁸ F-labeled two-helix scaffold protein for PET imaging of HER2-positive tumor. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011, 38, 1977-1984.	3.3	13
345	Molecular imaging with surface-enhanced Raman spectroscopy nanoparticle reporters. <i>MRS Bulletin</i> , 2013, 38, 625-630.	1.7	13
346	Real-time, continuous, fluorescence sensing in a freely-moving subject with an implanted hybrid VCSEL/CMOS biosensor. <i>Biomedical Optics Express</i> , 2013, 4, 1332.	1.5	13
347	Longitudinal Monitoring of Antibody Responses against Tumor Cells Using Magneto-nanosensors with a Nanoliter of Blood. <i>Nano Letters</i> , 2017, 17, 6644-6652.	4.5	13
348	Engineering Intracellularly Retained Gaussia Luciferase Reporters for Improved Biosensing and Molecular Imaging Applications. <i>ACS Chemical Biology</i> , 2017, 12, 2345-2353.	1.6	13
349	Evaluation of Glycolytic Response to Multiple Classes of Anti-glioblastoma Drugs by Noninvasive Measurement of Pyruvate Kinase M2 Using [¹⁸ F]DASA-23. <i>Molecular Imaging and Biology</i> , 2020, 22, 124-133.	1.3	13
350	Tumor treating fields (TTFields) impairs aberrant glycolysis in glioblastoma as evaluated by [¹⁸ F]DASA-23, a non-invasive probe of pyruvate kinase M2 (PKM2) expression. <i>Neoplasia</i> , 2021, 23, 58-67.	2.3	13
351	Studying molecular and cellular processes in the intact organism. , 2005, 62, 117-150.		13
352	A Transgenic Tri-Modality Reporter Mouse. <i>PLoS ONE</i> , 2013, 8, e73580.	1.1	13
353	Visualization of telomerase reverse transcriptase (hTERT) promoter activity using a trimodality fusion reporter construct. <i>Journal of Nuclear Medicine</i> , 2006, 47, 270-7.	2.8	13
354	A Human Estrogen Receptor (ER) α Mutation with Differential Responsiveness to Nonsteroidal Ligands: Novel Approaches for Studying Mechanism of ER Action. <i>Molecular Endocrinology</i> , 2008, 22, 1552-1564.	3.7	12
355	Reproducibility study of [¹⁸ F]FPP(RGD) ₂ uptake in murine models of human tumor xenografts. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011, 38, 722-730.	3.3	12
356	Protein biomarkers on tissue as imaged via MALDI mass spectrometry: A systematic approach to study the limits of detection. <i>Proteomics</i> , 2016, 16, 1660-1669.	1.3	12
357	Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part I. Reporter Gene Design, Characterization, and Optical in Vivo Imaging of Bone Marrow Stromal Cells after Myocardial Infarction. <i>Radiology</i> , 2016, 280, 815-825.	3.6	12
358	Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part II. In Vivo Imaging of Bone Marrow Stromal Cells in Swine with PET/CT and MR Imaging. <i>Radiology</i> , 2016, 280, 826-836.	3.6	12
359	Tumor characterization by ultrasound-release of multiple protein and microRNA biomarkers, preclinical and clinical evidence. <i>PLoS ONE</i> , 2018, 13, e0194268.	1.1	12
360	Keeping track. <i>Nature Materials</i> , 2013, 12, 180-181.	13.3	11

#	ARTICLE	IF	CITATIONS
361	Toward the Clinical Development and Validation of a Thy1-Targeted Ultrasound Contrast Agent for the Early Detection of Pancreatic Ductal Adenocarcinoma. <i>Investigative Radiology</i> , 2020, 55, 711-721.	3.5	11
362	Molecular Imaging of Reporter Gene Expression in Prostate Cancer: An Overview. <i>Seminars in Nuclear Medicine</i> , 2008, 38, 9-19.	2.5	10
363	In vivo targeting of HER2-positive tumor using 2-helix affibody molecules. <i>Amino Acids</i> , 2012, 43, 405-413.	1.2	10
364	Evaluation of the antitumor effects of rilotumumab by PET imaging in a U-87 MG mouse xenograft model. <i>Nuclear Medicine and Biology</i> , 2013, 40, 458-463.	0.3	10
365	¹⁸ F-FPRGD2 PET/CT imaging of musculoskeletal disorders. <i>Annals of Nuclear Medicine</i> , 2015, 29, 839-847.	1.2	10
366	A novel synthesis of ¹⁸ F-fluoromaltotriose as a PET tracer for imaging bacterial infection. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2018, 61, 408-414.	0.5	10
367	Continuous-Wave Coherent Raman Spectroscopy via Plasmonic Enhancement. <i>Scientific Reports</i> , 2019, 9, 12092.	1.6	10
368	Whole-body PET Imaging of T-cell Response to Glioblastoma. <i>Clinical Cancer Research</i> , 2021, 27, 6445-6456.	3.2	10
369	Initial evaluation of (4S)-4-(3-[¹⁸ F]fluoropropyl)-l-glutamate (FSPG) PET/CT imaging in patients with head and neck cancer, colorectal cancer, or non-Hodgkin lymphoma. <i>EJNMMI Research</i> , 2020, 10, 100.	1.1	10
370	Use of Bioluminescent Imaging to Assay the Transplantation of Immortalized Human Fetal Hepatocytes into Mice. <i>Cell Transplantation</i> , 2008, 17, 899-909.	1.2	9
371	Molecular Imaging Using Light-Absorbing Imaging Agents and a Clinical Optical Breast Imaging System—a Phantom Study. <i>Molecular Imaging and Biology</i> , 2011, 13, 232-238.	1.3	9
372	Real-time point-of-care total protein measurement with a miniaturized optoelectronic biosensor and fast fluorescence-based assay. <i>Biosensors and Bioelectronics</i> , 2021, 180, 112823.	5.3	9
373	A Novel Estrogen Receptor Intramolecular Folding-based Titratable Transgene Expression System. <i>Molecular Therapy</i> , 2009, 17, 1703-1711.	3.7	8
374	3-D Deep penetration photoacoustic imaging with a 2-D CMUT array. , 2010, 2010, 375-377.		8
375	Non-invasive Bioluminescence Imaging of Myoblast-Mediated Hypoxia-Inducible Factor-1 Alpha Gene Transfer. <i>Molecular Imaging and Biology</i> , 2011, 13, 1124-1132.	1.3	8
376	Cancer diagnostics: On-target probes for early detection. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	8
377	Smart Dust Nanorice for Enhancement of Endogenous Raman Signal, Contrast in Photoacoustic Imaging, and T2 Shortening in Magnetic Resonance Imaging. <i>Small</i> , 2018, 14, e1703683.	5.2	8
378	A Dual-Modality Hybrid Imaging System Harnesses Radioluminescence and Sound to Reveal Molecular Pathology of Atherosclerotic Plaques. <i>Scientific Reports</i> , 2018, 8, 8992.	1.6	8

#	ARTICLE	IF	CITATIONS
379	A mathematical model of tumor regression and recurrence after therapeutic oncogene inactivation. <i>Scientific Reports</i> , 2021, 11, 1341.	1.6	8
380	A Humanized Anti-GPC3 Antibody for Immuno-Positron Emission Tomography Imaging of Orthotopic Mouse Model of Patient-Derived Hepatocellular Carcinoma Xenografts. <i>Cancers</i> , 2021, 13, 3977.	1.7	8
381	Design and evaluation of Raman reporters for the Raman-silent region. <i>Nanotheranostics</i> , 2022, 6, 1-9.	2.7	8
382	Molecular Imaging of Hypoxia-Inducible Factor 1 α and von Hippel-Lindau Interaction in Mice. <i>Molecular Imaging</i> , 2008, 7, 7290.2008.00017.	0.7	7
383	Continuous sensing of tumor-targeted molecular probes with a vertical cavity surface emitting laser-based biosensor. <i>Journal of Biomedical Optics</i> , 2012, 17, 117004.	1.4	7
384	Nondestructive, serial in vivo imaging of a tissue-flap using a tissue adhesion barrier. <i>Intravital</i> , 2012, 1, 69-76.	2.0	7
385	Noninvasive Imaging of Hypoxia-Inducible Factor-1 α Gene Therapy for Myocardial Ischemia. <i>Human Gene Therapy Methods</i> , 2013, 24, 279-288.	2.1	7
386	A Titratable Two-Step Transcriptional Amplification Strategy for Targeted Gene Therapy Based on Ligand-Induced Intramolecular Folding of a Mutant Human Estrogen Receptor. <i>Molecular Imaging and Biology</i> , 2014, 16, 224-234.	1.3	7
387	New synthesis of ^{18}F fluoromaltotriose for positron emission tomography imaging of bacterial infection. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2020, 63, 466-475.	0.5	7
388	Non-Invasive Photoacoustic Imaging of In Vivo Mice with Erythrocyte Derived Optical Nanoparticles to Detect CAD/MI. <i>Scientific Reports</i> , 2020, 10, 5983.	1.6	7
389	Simulations of Virtual PET/CT 3-D Bronchoscopy Imaging Using a Physical Porcine Lung "Heart Phantom". <i>Molecular Imaging and Biology</i> , 2009, 11, 275-282.	1.3	6
390	Engineering of a novel subnanomolar affinity fibronectin III domain binder targeting human programmed death-ligand 1. <i>Protein Engineering, Design and Selection</i> , 2019, 32, 231-240.	1.0	6
391	Minicircles for a two-step blood biomarker and PET imaging early cancer detection strategy. <i>Journal of Controlled Release</i> , 2021, 335, 281-289.	4.8	6
392	Implantable optical biosensor for in vivo molecular imaging. , 2009, , .		5
393	Intraoperative Molecular Imaging in Lung Cancer: The State of the Art and the Future. <i>Molecular Therapy</i> , 2018, 26, 338-341.	3.7	5
394	Imaging studies for evaluating gene therapy in translational research. <i>Drug Discovery Today: Technologies</i> , 2005, 2, 335-343.	4.0	4
395	A First Report on [^{18}F]FPRGD $_2$ PET/CT Imaging in Multiple Myeloma. <i>Contrast Media and Molecular Imaging</i> , 2017, 2017, 1-7.	0.4	4
396	LETTERS TO THE EDITOR. <i>Annals of Surgery</i> , 2002, 235, 309-310.	2.1	4

#	ARTICLE	IF	CITATIONS
397	Molecular imaging of hypoxia-inducible factor 1 alpha and von Hippel-Lindau interaction in mice. <i>Molecular Imaging</i> , 2008, 7, 139-46.	0.7	4
398	Radionuclide Imaging of Reporter Gene Expression. , 2002, , 799-818.		3
399	Monitoring Gene Therapy by Positron Emission Tomography. , 2003, , 659-685.		3
400	Comparison of Gaussian and Poisson noise models in a hybrid reference spectrum and principal component analysis algorithm for Raman spectroscopy. , 2013, , .		3
401	Two Patient Studies of a Companion Diagnostic Immuno-Positron Emission Tomography (PET) Tracer for Measuring Human CA6 Expression in Cancer for Antibody Drug Conjugate (ADC) Therapy. <i>Molecular Imaging</i> , 2020, 19, 153601212093939.	0.7	3
402	A miniaturized optoelectronic biosensor for real-time point-of-care total protein analysis. <i>MethodsX</i> , 2021, 8, 101414.	0.7	3
403	Imaging alloreactive T cells provides early warning of organ transplant rejection. <i>JCI Insight</i> , 2021, 6, .	2.3	3
404	A brain tumor molecular imaging strategy using a new triple-modality MRI-photoacoustic-Raman nanoparticle. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
405	In Vivo Translation of the CIRPI System: Revealing Molecular Pathology of Rabbit Aortic Atherosclerotic Plaques. <i>Journal of Nuclear Medicine</i> , 2019, 60, 1308-1316.	2.8	2
406	Enhanced sensitivity carbon nanotubes as targeted photoacoustic molecular imaging agents. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
407	Cellulose nanoparticles: photoacoustic contrast agents that biodegrade to simple sugars. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
408	Gold nanorods combine photoacoustic and Raman imaging for detection and treatment of ovarian cancer. , 2014, , .		1
409	Multigene profiling of single circulating tumor cells. <i>Molecular and Cellular Oncology</i> , 2017, 4, e1289295.	0.3	1
410	Capture and Genetic Analysis of Circulating Tumor Cells Using a Magnetic Separation Device (Magnetic Sifter). <i>Methods in Molecular Biology</i> , 2017, 1634, 153-162.	0.4	1
411	Role of Imaging in Early-Phase Trials. , 2018, , 129-149.		1
412	Multiplexed Raman Imaging in Tissues and Living Organisms. <i>Methods in Molecular Biology</i> , 2021, 2350, 331-340.	0.4	1
413	Nuclear Imaging of Endogenous Markers of Lymphocyte Response. , 2022, , 15-59.		1
414	Photoacoustic imaging of mesenchymal stem cells in living mice via silica-coated gold nanorods. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0

#	ARTICLE	IF	CITATIONS
415	A simple model for deep tissue attenuation correction and large organ analysis of Cerenkov luminescence imaging. Proceedings of SPIE, 2014, , .	0.8	0
416	Development of Appropriate Imaging Methods to Trace Cell Fate, Engraftment, and Cell Survival. , 2015, , 529-537.		0
417	Reply: Optimizing Strategies for Immune Checkpoint Imaging with Immuno-PET in Preclinical Study. Journal of Nuclear Medicine, 2018, 59, 711.2-712.	2.8	0
418	An approach for optimizing gold nanoparticles for possible medical applications, using correlative electron energy loss and Raman spectroscopies on electron beam lithographically fabricated arrays. Journal of Materials Research, 2021, 36, 3383.	1.2	0
419	Bioluminescence Imaging of Systemic Tumor Targeting Using a Prostate-Specific Lentiviral Vector. Human Gene Therapy, 2005, .	1.4	0
420	Molecular Imaging. , 2007, , 193-229.		0