

# Sanjiv Sam Gambhir

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3693974/publications.pdf>

Version: 2024-02-01

217  
papers

23,122  
citations

11639

70  
h-index

8384

147  
g-index

230  
all docs

230  
docs citations

230  
times ranked

26969  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of Tumor Redox Status through $^{18}\text{F}$ -4-(3-[ $^{18}\text{F}$ ]fluoropropyl)-L-Glutamic Acid PET Imaging of System xc <sup>-</sup> Activity. <i>Cancer Research</i> , 2022, 79, 853-863.	0.4	42
2	Design and evaluation of Raman reporters for the Raman-silent region. <i>Nanotheranostics</i> , 2022, 6, 1-9.	2.7	8
3	Nuclear Imaging of Endogenous Markers of Lymphocyte Response. , 2022, , 15-59.		1
4	$^{18}\text{F}$ -FSPG PET/CT Imaging of System xc <sup>-</sup> Transporter Activity in Patients with Primary and Metastatic Brain Tumors. <i>Radiology</i> , 2022, 303, 620-631.	3.6	7
5	Alternative medicine: therapeutic effects on gastric original signet ring carcinoma via ascorbate and combination with sodium alpha lipoate. <i>BMC Complementary Medicine and Therapies</i> , 2022, 22, 58.	1.2	1
6	Cancer Detection Using an Artificial Secretable MicroRNA Found in Blood and Urine. <i>Biomedicines</i> , 2022, 10, 621.	1.4	2
7	Early detection of cancer. <i>Science</i> , 2022, 375, eaay9040.	6.0	291
8	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
9	Mitochondrial copper depletion suppresses triple-negative breast cancer in mice. <i>Nature Biotechnology</i> , 2021, 39, 357-367.	9.4	163
10	Molecular Imaging of Chimeric Antigen Receptor T Cells by ICOS-ImmunoPET. <i>Clinical Cancer Research</i> , 2021, 27, 1058-1068.	3.2	53
11	Tumor treating fields (TTFields) impairs aberrant glycolysis in glioblastoma as evaluated by [ $^{18}\text{F}$ ]DASA-23, a non-invasive probe of pyruvate kinase M2 (PKM2) expression. <i>Neoplasia</i> , 2021, 23, 58-67.	2.3	13
12	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
13	Molecular Imaging Using Raman Scattering. , 2021, , 343-357.		0
14	Superiorized Photo-Acoustic Non-NEgative Reconstruction (SPANNER) for Clinical Photoacoustic Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1888-1897.	5.4	26
15	Ultra-high-frequency radio-frequency acoustic molecular imaging with saline nanodroplets in living subjects. <i>Nature Nanotechnology</i> , 2021, 16, 717-724.	15.6	15
16	SPECT/CT Imaging, Biodistribution and Radiation Dosimetry of a $^{177}\text{Lu}$ -DOTA-Integrin $\alpha_5\beta_1$ Cystine Knot Peptide in a Pancreatic Cancer Xenograft Model. <i>Frontiers in Oncology</i> , 2021, 11, 684713.	1.3	7
17	Detection of Carotid Artery Stenosis with Intraplaque Hemorrhage and Neovascularization Using a Scanning Interferometer. <i>Nano Letters</i> , 2021, 21, 5714-5721.	4.5	0
18	Ultrasensitive Carbon Nanotubes for Photoacoustic Imaging of Inflamed Atherosclerotic Plaques. <i>Advanced Functional Materials</i> , 2021, 31, 2101005.	7.8	24

#	ARTICLE	IF	CITATIONS
19	Continuous health monitoring: An opportunity for precision health. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	39
20	Multiparametric Photoacoustic Analysis of Human Thyroid Cancers <i>In Vivo</i> . <i>Cancer Research</i> , 2021, 81, 4849-4860.	0.4	72
21	Return of individual research results: What do participants prefer and expect?. <i>PLoS ONE</i> , 2021, 16, e0254153.	1.1	10
22	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
23	Imaging alloreactive T cells provides early warning of organ transplant rejection. <i>JCI Insight</i> , 2021, 6, .	2.3	3
24	Ultrasensitive Carbon Nanotubes for Photoacoustic Imaging of Inflamed Atherosclerotic Plaques ( <i>Adv. Funct. Mater.</i> 37/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170271.	7.8	2
25	Whole-body PET Imaging of T-cell Response to Glioblastoma. <i>Clinical Cancer Research</i> , 2021, 27, 6445-6456.	3.2	10
26	A Clinical PET Imaging Tracer ([ <sup>18</sup> F]DASA-23) to Monitor Pyruvate Kinase M2-Induced Glycolytic Reprogramming in Glioblastoma. <i>Clinical Cancer Research</i> , 2021, 27, 6467-6478.	3.2	9
27	An approach for optimizing gold nanoparticles for possible medical applications, using correlative electron energy loss and Raman spectroscopies on electron beam lithographically fabricated arrays. <i>Journal of Materials Research</i> , 2021, 36, 3383.	1.2	0
28	PET Imaging of TIGIT Expression on Tumor-Infiltrating Lymphocytes. <i>Clinical Cancer Research</i> , 2021, 27, 1932-1940.	3.2	25
29	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
30	Pilot-phase PET/CT study targeting integrin $\alpha_6\beta_2$ in pancreatic cancer patients using the cystine-knot peptide-based <sup>18</sup> F-FP-R01-MG-F2. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, , 1.	3.3	10
31	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
32	Evaluation of Glycolytic Response to Multiple Classes of Anti-glioblastoma Drugs by Noninvasive Measurement of Pyruvate Kinase M2 Using [ <sup>18</sup> F]DASA-23. <i>Molecular Imaging and Biology</i> , 2020, 22, 124-133.	1.3	13
33	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
34	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
35	Clinical Evaluation of (4S)-4-(3-[ <sup>18</sup> 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
36	Synthesis and Characterization of 9-(4-[ <sup>18</sup> F]Fluoro-3-(hydroxymethyl)butyl)-2-(phenylthio)-6-oxopurine as a Novel PET Agent for Mutant Herpes Simplex Virus Type 1 Thymidine Kinase Reporter Gene Imaging. <i>Molecular Imaging and Biology</i> , 2020, 22, 1151-1160.	1.3	5

#	ARTICLE	IF	CITATIONS
37	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
38	Discovery and Optimization of Small-Molecule Ligands for V-Domain Ig Suppressor of T-Cell Activation (VISTA). <i>Journal of the American Chemical Society</i> , 2020, 142, 16194-16198.	6.6	19
39	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
40	Plasmonic and Electrostatic Interactions Enable Uniformly Enhanced Liquid Bacterial Surface-Enhanced Raman Scattering (SERS). <i>Nano Letters</i> , 2020, 20, 7655-7661.	4.5	56
41	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
42	A mathematical model of ctDNA shedding predicts tumor detection size. <i>Science Advances</i> , 2020, 6, .	4.7	105
43	Low-frequency ultrasound-mediated cytokine transfection enhances T cell recruitment at local and distant tumor sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12674-12685.	3.3	61
44	Isotopically Encoded Nanotags for Multiplexed Ion Beam Imaging. <i>Advanced Materials Technologies</i> , 2020, 5, 2000098.	3.0	2
45	Molecular Imaging of Infective Endocarditis With $^{18}\text{F}$ Fluoromaltotriose Positron Emission Tomography-Computed Tomography. <i>Circulation</i> , 2020, 141, 1729-1731.	1.6	9
46	Whole-body tracking of single cells via positron emission tomography. <i>Nature Biomedical Engineering</i> , 2020, 4, 835-844.	11.6	46
47	The Project Baseline Health Study: a step towards a broader mission to map human health. <i>Npj Digital Medicine</i> , 2020, 3, 84.	5.7	38
48	Integrating genomic features for non-invasive early lung cancer detection. <i>Nature</i> , 2020, 580, 245-251.	13.7	379
49	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
50	Maltotriose-based probes for fluorescence and photoacoustic imaging of bacterial infections. <i>Nature Communications</i> , 2020, 11, 1250.	5.8	78
51	New synthesis of $^{18}\text{F}$ fluoromaltotriose for positron emission tomography imaging of bacterial infection. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2020, 63, 466-475.	0.5	7
52	SP94-Targeted Triblock Copolymer Nanoparticle Delivers Thymidine Kinase-p53-Nitroreductase Triple Therapeutic Gene and Restores Anticancer Function against Hepatocellular Carcinoma in Vivo. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11307-11319.	4.0	27
53	Human biodistribution and radiation dosimetry of $^{18}\text{F}$ DASA-23, a PET probe targeting pyruvate kinase M2. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 2123-2130.	3.3	10
54	Carbon-coated FeCo nanoparticles as sensitive magnetic-particle-imaging tracers with photothermal and magnetothermal properties. <i>Nature Biomedical Engineering</i> , 2020, 4, 325-334.	11.6	160

#	ARTICLE	IF	CITATIONS
55	Reconstructed Apoptotic Bodies as Targeted "Nano Decoys" to Treat Intracellular Bacterial Infections within Macrophages and Cancer Cells. <i>ACS Nano</i> , 2020, 14, 5818-5835.	7.3	52
56	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
57	Trop2 is a driver of metastatic prostate cancer with neuroendocrine phenotype via PARP1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2032-2042.	3.3	85
58	ICOS Is an Indicator of T-cell-Mediated Response to Cancer Immunotherapy. <i>Cancer Research</i> , 2020, 80, 3023-3032.	0.4	72
59	Molecular Imaging of Chimeric Antigen Receptor T Cells By ICOS-Immunopet. <i>Blood</i> , 2020, 136, 5-6.	0.6	3
60	Improved detection of prostate cancer using a magneto-nanosensor assay for serum circulating autoantibodies. <i>PLoS ONE</i> , 2019, 14, e0221051.	1.1	18
61	Biodegradable Fluorescent Nanoparticles for Endoscopic Detection of Colorectal Carcinogenesis. <i>Advanced Functional Materials</i> , 2019, 29, 1904992.	7.8	28
62	How to Prevent a Leaky Pipeline in Academic Radiology: Insights From a Faculty Survey. <i>Journal of the American College of Radiology</i> , 2019, 16, 1220-1224.	0.9	5
63	Simultaneous transrectal ultrasound and photoacoustic human prostate imaging. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	87
64	Microvesicle-Mediated Delivery of Minicircle DNA Results in Effective Gene-Directed Enzyme Prodrug Cancer Therapy. <i>Molecular Cancer Therapeutics</i> , 2019, 18, 2331-2342.	1.9	54
65	Positron emission tomography reporter gene strategy for use in the central nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11402-11407.	3.3	31
66	Photoacoustic clinical imaging. <i>Photoacoustics</i> , 2019, 14, 77-98.	4.4	368
67	The Characterization of <sup>18</sup> F-hGTS13 for Molecular Imaging of xC <sup>+</sup> Transporter Activity with PET. <i>Journal of Nuclear Medicine</i> , 2019, 60, 1812-1817.	2.8	10
68	Engineered immune cells as highly sensitive cancer diagnostics. <i>Nature Biotechnology</i> , 2019, 37, 531-539.	9.4	101
69	Miniature gold nanorods for photoacoustic molecular imaging in the second near-infrared optical window. <i>Nature Nanotechnology</i> , 2019, 14, 465-472.	15.6	349
70	[ <sup>18</sup> F]-SuPAR: A Radiofluorinated Probe for Noninvasive Imaging of DNA Damage-Dependent Poly(ADP-ribose) Polymerase Activity. <i>Bioconjugate Chemistry</i> , 2019, 30, 1331-1342.	1.8	11
71	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
72	Initial experience with a PET/computed tomography system using silicon photomultiplier detectors. <i>Nuclear Medicine Communications</i> , 2019, 40, 1174-1178.	0.5	1

#	ARTICLE	IF	CITATIONS
73	Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scattering—Nanoparticle Endoscopy. <i>ACS Nano</i> , 2019, 13, 1354-1364.	7.3	40
74	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
75	Nanomedicine for Spontaneous Brain Tumors: A Companion Clinical Trial. <i>ACS Nano</i> , 2019, 13, 2858-2869.	7.3	41
76	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
77	Toward achieving precision health. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	134
78	Eradication of spontaneous malignancy by local immunotherapy. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	289
79	A novel synthesis of $^{18}\text{F}$ -fluoromaltotriose as a PET tracer for imaging bacterial infection. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2018, 61, 408-414.	0.5	10
80	A blood biomarker for monitoring response to anti-EGFR therapy. <i>Cancer Biomarkers</i> , 2018, 22, 333-344.	0.8	3
81	Initial experience with a SiPM-based PET/CT scanner: influence of acquisition time on image quality. <i>EJNMMI Physics</i> , 2018, 5, 9.	1.3	47
82	[ $^{18}\text{F}$ ]FSPG-PET reveals increased cystine/glutamate antiporter (xc-) activity in a mouse model of multiple sclerosis. <i>Journal of Neuroinflammation</i> , 2018, 15, 55.	3.1	21
83	Deactivated CRISPR Associated Protein 9 for Minor-Allele Enrichment in Cell-Free DNA. <i>Clinical Chemistry</i> , 2018, 64, 307-316.	1.5	30
84	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
85	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
86	Development and MPI tracking of novel hypoxia-targeted theranostic exosomes. <i>Biomaterials</i> , 2018, 177, 139-148.	5.7	155
87	The Immunoimaging Toolbox. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1174-1182.	2.8	68
88	Reply: $^{18}\text{F}$ -Fluoromaltotriose PET Evaluation in <i>Escherichia Coli</i> —Induced Myositis: Is There Uptake Saturation in Control?. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1166.2-1167.	2.8	0
89	Quantification of Cerenkov Luminescence Imaging (CLI) Comparable With 3-D PET Standard Measurements. <i>Molecular Imaging</i> , 2018, 17, 153601211878863.	0.7	6
90	Ferumoxylol-based Dual-modality Imaging Probe for Detection of Stem Cell Transplant Rejection. <i>Nanotheranostics</i> , 2018, 2, 306-319.	2.7	8

#	ARTICLE	IF	CITATIONS
91	An intravascular magnetic wire for the high-throughput retrieval of circulating tumour cells in vivo. <i>Nature Biomedical Engineering</i> , 2018, 2, 696-705.	11.6	92
92	The Utility of [18F]DASA-23 for Molecular Imaging of Prostate Cancer with Positron Emission Tomography. <i>Molecular Imaging and Biology</i> , 2018, 20, 1015-1024.	1.3	11
93	Emerging Intraoperative Imaging Modalities to Improve Surgical Precision. <i>Molecular Imaging and Biology</i> , 2018, 20, 705-715.	1.3	61
94	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
95	Imaging activated T cells predicts response to cancer vaccines. <i>Journal of Clinical Investigation</i> , 2018, 128, 2569-2580.	3.9	114
96	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
97	Tracking T Cell Activation By OX40 Immuno-PET: A Novel Strategy for Imaging of Graft Versus Host Disease. <i>Blood</i> , 2018, 132, 4527-4527.	0.6	0
98	Reporter gene imaging of targeted T cell immunotherapy in recurrent glioma. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	263
99	Detection of Stem Cell Transplant Rejection with Ferumoxytol MR Imaging: Correlation of MR Imaging Findings with Those at Intravital Microscopy. <i>Radiology</i> , 2017, 284, 495-507.	3.6	24
100	A Model-Based Personalized Cancer Screening Strategy for Detecting Early-Stage Tumors Using Blood-Borne Biomarkers. <i>Cancer Research</i> , 2017, 77, 2570-2584.	0.4	32
101	Development of [18F]DASA-23 for Imaging Tumor Glycolysis Through Noninvasive Measurement of Pyruvate Kinase M2. <i>Molecular Imaging and Biology</i> , 2017, 19, 665-672.	1.3	16
102	Development of Novel ImmunoPET Tracers to Image Human PD-1 Checkpoint Expression on Tumor-Infiltrating Lymphocytes in a Humanized Mouse Model. <i>Molecular Imaging and Biology</i> , 2017, 19, 903-914.	1.3	91
103	Specific Imaging of Bacterial Infection Using $^{18}\text{F}$ -Fluoromaltotriose: A Second-Generation PET Tracer Targeting the Maltodextrin Transporter in Bacteria. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1679-1684.	2.8	79
104	Towards clinically translatable in vivo nanodiagnostics. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	255
105	Biodistribution and Radiation Dosimetry of $^{18}\text{F}$ -FTC-146 in Humans. <i>Journal of Nuclear Medicine</i> , 2017, 58, 2004-2009.	2.8	34
106	Nanomaterials for In Vivo Imaging. <i>Chemical Reviews</i> , 2017, 117, 901-986.	23.0	879
107	Practical Immuno-PET Radiotracer Design Considerations for Human Immune Checkpoint Imaging. <i>Journal of Nuclear Medicine</i> , 2017, 58, 538-546.	2.8	102
108	The Exosome Total Isolation Chip. <i>ACS Nano</i> , 2017, 11, 10712-10723.	7.3	275

#	ARTICLE	IF	CITATIONS
109	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
110	Tomographic magnetic particle imaging of cancer targeted nanoparticles. <i>Nanoscale</i> , 2017, 9, 18723-18730.	2.8	107
111	Imaging B Cells in a Mouse Model of Multiple Sclerosis Using $^{64}\text{Cu}$ -Rituximab PET. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1845-1851.	2.8	35
112	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
113	A Novel Theranostic Strategy for <i>MMP-14</i> Expressing Glioblastomas Impacts Survival. <i>Molecular Cancer Therapeutics</i> , 2017, 16, 1909-1921.	1.9	35
114	$^{18}\text{F}$ -FDG silicon photomultiplier PET/CT: A pilot study comparing semi-quantitative measurements with standard PET/CT. <i>PLoS ONE</i> , 2017, 12, e0178936.	1.1	43
115	A PET Imaging Strategy to Visualize Activated T Cells in Acute Graft-versus-Host Disease Elicited by Allogeneic Hematopoietic Cell Transplant. <i>Cancer Research</i> , 2017, 77, 2893-2902.	0.4	98
116	Alk5 inhibition increases delivery of macromolecular and protein-bound contrast agents to tumors. <i>JCI Insight</i> , 2016, 1, .	2.3	13
117	Artificial MicroRNAs as Novel Secreted Reporters for Cell Monitoring in Living Subjects. <i>PLoS ONE</i> , 2016, 11, e0159369.	1.1	7
118	Molecular profiling of single circulating tumor cells from lung cancer patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8379-E8386.	3.3	90
119	A Cystine Knot Peptide Targeting Integrin $\alpha_5\beta_1$ for Photoacoustic and Fluorescence Imaging of Tumors in Living Subjects. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1629-1634.	2.8	22
120	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
121	Imaging approaches to optimize molecular therapies. <i>Science Translational Medicine</i> , 2016, 8, 355ps16.	5.8	93
122	Clinically Approved Nanoparticle Imaging Agents. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1833-1837.	2.8	181
123	Characterization of Physiologic $^{18}\text{F}$ FSPG Uptake in Healthy Volunteers. <i>Radiology</i> , 2016, 279, 898-905.	3.6	15
124	Pilot Comparison of $^{68}\text{Ga}$ -RM2 PET and $^{68}\text{Ga}$ -PSMA-11 PET in Patients with Biochemically Recurrent Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2016, 57, 557-562.	2.8	155
125	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
126	Pilot prospective evaluation of $^{18}\text{F}$ -FPPRGD2 PET/CT in patients with cervical and ovarian cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 1047-1055.	3.3	25



#	ARTICLE	IF	CITATIONS
127	Pilot Preclinical and Clinical Evaluation of (4S)-4-(3-[ <sup>18</sup> F]Fluoropropyl)-L-Glutamate (18F-FSPG) for PET/CT Imaging of Intracranial Malignancies. PLoS ONE, 2016, 11, e0148628.	1.1	51
128	Can multispectral optoacoustic tomography replace sentinel lymph biopsy in melanoma?. Annals of Translational Medicine, 2016, 4, 517-517.	0.7	3
129	Isolation and Characterization of a Monobody with a Fibronectin Domain III Scaffold That Specifically Binds EphA2. PLoS ONE, 2015, 10, e0132976.	1.1	20
130	A Magnetic Bead-Based Sensor for the Quantification of Multiple Prostate Cancer Biomarkers. PLoS ONE, 2015, 10, e0139484.	1.1	15
131	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
132	A Systematic Comparison of 18F-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
133	<sup>64</sup> Cu-Labeled Divalent Cystine Knot Peptide for Imaging Carotid Atherosclerotic Plaques. Journal of Nuclear Medicine, 2015, 56, 939-944.	2.8	36
134	Synthesis of [ <sup>18</sup> F]-labelled Maltose Derivatives as PET Tracers for Imaging Bacterial Infection. Molecular Imaging and Biology, 2015, 17, 168-176.	1.3	31
135	Semiquantitative Analysis of the Biodistribution of the Combined 18F-NaF and 18F-FDG Administration for PET/CT Imaging. Journal of Nuclear Medicine, 2015, 56, 688-694.	2.8	15
136	Simultaneous Whole-Body Time-of-Flight 18F-FDG PET/MRI. Clinical Nuclear Medicine, 2015, 40, 1-8.	0.7	70
137	Development and Validation of an Immuno-PET Tracer as a Companion Diagnostic Agent for Antibody-Drug Conjugate Therapy to Target the CA6 Epitope. Radiology, 2015, 276, 191-198.	3.6	20
138	PET imaging of tumor glycolysis downstream of hexokinase through noninvasive measurement of pyruvate kinase M2. Science Translational Medicine, 2015, 7, 310ra169.	5.8	54
139	Biodistribution of the 18F-FPPRGD2 PET radiopharmaceutical in cancer patients: an atlas of SUV measurements. European Journal of Nuclear Medicine and Molecular Imaging, 2015, 42, 1850-1858.	3.3	43
140	Novel Radiotracer for ImmunoPET Imaging of PD-1 Checkpoint Expression on Tumor Infiltrating Lymphocytes. Bioconjugate Chemistry, 2015, 26, 2062-2069.	1.8	139
141	Imaging patients with breast and prostate cancers using combined 18F NaF/18F FDG and TOF simultaneous PET/ MRI. EJNMMI Physics, 2015, 2, A65.	1.3	2
142	Glioblastoma Multiforme Recurrence: An Exploratory Study of 18F FPPRGD2 PET/CT. Radiology, 2015, 277, 497-506.	3.6	49
143	Prospective Comparison of <sup>99m</sup> Tc-MDP Scintigraphy, Combined <sup>18</sup> F-NaF and <sup>18</sup> F-FDG PET/CT, and Whole-Body MRI in Patients with Breast and Prostate Cancer. Journal of Nuclear Medicine, 2015, 56, 1862-1868.	2.8	95
144	Engineering high-affinity PD-1 variants for optimized immunotherapy and immuno-PET imaging. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6506-14.	3.3	299

#	ARTICLE	IF	CITATIONS
145	A Real-Time Clinical Endoscopic System for Intraluminal, Multiplexed Imaging of Surface-Enhanced Raman Scattering Nanoparticles. PLoS ONE, 2015, 10, e0123185.	1.1	106
146	Validation of <sup>64</sup> Cu-DOTA-rituximab injection preparation under good manufacturing practices: a PET tracer for imaging of B-cell non-Hodgkin lymphoma. Molecular Imaging, 2015, 14, .	0.7	6
147	Imaging Circulating Tumor Cells in Freely Moving Awake Small Animals Using a Miniaturized Intravital Microscope. PLoS ONE, 2014, 9, e86759.	1.1	33
148	Circulating Tumor Microemboli Diagnostics for Patients with Non-“Small-Cell Lung Cancer. Journal of Thoracic Oncology, 2014, 9, 1111-1119.	0.5	61
149	Endoscopic molecular imaging of human bladder cancer using a CD47 antibody. Science Translational Medicine, 2014, 6, 260ra148.	5.8	124
150	Selective uptake of single-walled carbon nanotubes by circulating monocytes for enhanced tumour delivery. Nature Nanotechnology, 2014, 9, 481-487.	15.6	216
151	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. Nature Nanotechnology, 2014, 9, 233-239.	15.6	1,057
152	A High-Affinity, High-Stability Photoacoustic Agent for Imaging Gastrin-Releasing Peptide Receptor in Prostate Cancer. Clinical Cancer Research, 2014, 20, 3721-3729.	3.2	39
153	Detection and Quantitation of Circulating Tumor Cell Dynamics by Bioluminescence Imaging in an Orthotopic Mammary Carcinoma Model. PLoS ONE, 2014, 9, e105079.	1.1	13
154	Investigation of 6-[ <sup>18</sup> F]-Fluoromaltose as a Novel PET Tracer for Imaging Bacterial Infection. PLoS ONE, 2014, 9, e107951.	1.1	85
155	Activatable Oligomerizable Imaging Agents for Photoacoustic Imaging of Furin-Like Activity in Living Subjects. Journal of the American Chemical Society, 2013, 135, 11015-11022.	6.6	196
156	A comparison of noise models in a hybrid reference spectrum and principal components analysis algorithm for Raman spectroscopy. Journal of Raman Spectroscopy, 2013, 44, 841-856.	1.2	6
157	High-sensitivity, real-time, ratiometric imaging of surface-enhanced Raman scattering nanoparticles with a clinically translatable Raman endoscope device. Journal of Biomedical Optics, 2013, 18, 1.	1.4	58
158	A small animal Raman instrument for rapid, wide-area, spectroscopic imaging. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12408-12413.	3.3	185
159	Development and Validation of Non-Integrative, Self-Limited, and Replicating Minicircles for Safe Reporter Gene Imaging of Cell-Based Therapies. PLoS ONE, 2013, 8, e73138.	1.1	21
160	Exploratory Clinical Trial of (4 <i>S</i> )-4-(3-[ <sup>18</sup> F]fluoropropyl)-L-glutamate for Imaging xC <sup>+</sup> Transporter Using Positron Emission Tomography in Patients with Non-“Small Cell Lung or Breast Cancer. Clinical Cancer Research, 2012, 18, 5427-5437.	3.2	114
161	Proof-of-Concept Study of Monitoring Cancer Drug Therapy with Cerenkov Luminescence Imaging. Journal of Nuclear Medicine, 2012, 53, 312-317.	2.8	68
162	A photonic crystal cavity-optical fiber tip nanoparticle sensor for biomedical applications. Applied Physics Letters, 2012, 100, .	1.5	29

#	ARTICLE	IF	CITATIONS
163	Positron Emission Tomography of <sup>64</sup> Cu-DOTA-Rituximab in a Transgenic Mouse Model Expressing Human CD20 for Clinical Translation to Image NHL. <i>Molecular Imaging and Biology</i> , 2012, 14, 608-616.	1.3	30
164	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
165	New Positron Emission Tomography (PET) Radioligand for Imaging $\alpha$ -1 Receptors in Living Subjects. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 8272-8282.	2.9	81
166	A Molecular Imaging Primer: Modalities, Imaging Agents, and Applications. <i>Physiological Reviews</i> , 2012, 92, 897-965.	13.1	928
167	Fluorescent Magnetic Nanoparticles for Magnetically Enhanced Cancer Imaging and Targeting in Living Subjects. <i>ACS Nano</i> , 2012, 6, 6862-6869.	7.3	79
168	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
169	Improving Image Quality by Accounting for Changes in Water Temperature during a Photoacoustic Tomography Scan. <i>PLoS ONE</i> , 2012, 7, e45337.	1.1	25
170	Deep Tissue Photoacoustic Imaging Using a Miniaturized 2-D Capacitive Micromachined Ultrasonic Transducer Array. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1199-1204.	2.5	73
171	Molecular Imaging with Theranostic Nanoparticles. <i>Accounts of Chemical Research</i> , 2011, 44, 1050-1060.	7.6	464
172	Mathematical Model Identifies Blood Biomarker-Based Early Cancer Detection Strategies and Limitations. <i>Science Translational Medicine</i> , 2011, 3, 109ra116.	5.8	202
173	Noninvasive cell-tracking methods. <i>Nature Reviews Clinical Oncology</i> , 2011, 8, 677-688.	12.5	439
174	Pilot Pharmacokinetic and Dosimetric Studies of <sup>18</sup> F-FPPRGD2: A PET Radiopharmaceutical Agent for Imaging $\alpha$ -v $\beta$ 3 Integrin Levels. <i>Radiology</i> , 2011, 260, 182-191.	3.6	131
175	The Fate and Toxicity of Raman-Active Silica-Gold Nanoparticles in Mice. <i>Science Translational Medicine</i> , 2011, 3, 79ra33.	5.8	139
176	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
177	Quantum dots: Dynamic Visualization of RGD-Quantum Dot Binding to Tumor Neovasculature and Extravasation in Multiple Living Mouse Models Using Intravital Microscopy ( <i>Small</i> 20/2010). <i>Small</i> , 2010, 6, n/a-n/a.	5.2	0
178	Fluorescent Reporter Proteins. , 2010, , 3-40.		4
179	Evaluation of a <sup>64</sup> Cu-Labeled Cystine-Knot Peptide Based on Agouti-Related Protein for PET of Tumors Expressing $\alpha$ -v $\beta$ 3 Integrin. <i>Journal of Nuclear Medicine</i> , 2010, 51, 251-258.	2.8	59
180	A Novel High-Sensitivity Rapid-Acquisition Single-Photon Cardiac Imaging Camera. <i>Journal of Nuclear Medicine</i> , 2009, 50, 635-643.	2.8	241

#	ARTICLE	IF	CITATIONS
181	Multiplexed imaging of surface enhanced Raman scattering nanotags in living mice using noninvasive Raman spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13511-13516.	3.3	656
182	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
183	Noninvasive detection of therapeutic cytolytic T cells with $^{18}\text{F}$ -FHBG PET in a patient with glioma. Nature Clinical Practice Oncology, 2009, 6, 53-58.	4.3	345
184	Matrix-insensitive protein assays push the limits of biosensors in medicine. Nature Medicine, 2009, 15, 1327-1332.	15.2	359
185	Carbon nanotubes as photoacoustic molecular imaging agents in living mice. Nature Nanotechnology, 2008, 3, 557-562.	15.6	1,215
186	Molecular imaging in drug development. Nature Reviews Drug Discovery, 2008, 7, 591-607.	21.5	1,000
187	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
188	Molecular Imaging of PET Reporter Gene Expression. Handbook of Experimental Pharmacology, 2008, , 277-303.	0.9	46
189	Introduction: FIGURE 1.. Journal of Nuclear Medicine, 2008, 49, 1S-4S.	2.8	32
190	Molecular Imaging: The Vision and Opportunity for Radiology in the Future. Radiology, 2007, 244, 39-47.	3.6	151
191	In Memoriam—Tandra R. Chaudhuri, Ph.D. (1947—2006). Molecular Imaging and Biology, 2007, 9, 59-59.	1.3	0
192	PET imaging of herpes simplex virus type 1 thymidine kinase (HSV1-tk) or mutant HSV1-sr39tk reporter gene expression in mice and humans using $^{18}\text{F}$ -FHBG. Nature Protocols, 2006, 1, 3069-3074.	5.5	118
193	Bioluminescent Monitoring of NIS-Mediated $^{131}\text{I}$ Ablative Effects in MCF-7 Xenografts. Molecular Imaging, 2006, 5, 7290.2006.00008.	0.7	4
194	Imaging progress of herpes simplex virus type 1 thymidine kinase suicide gene therapy in living subjects with positron emission tomography. Cancer Gene Therapy, 2005, 12, 329-339.	2.2	107
195	Synthesis of (4- $^{18}\text{F}$ fluorophenyl)triphenylphosphonium as a potential imaging agent for mitochondrial dysfunction. Journal of Labelled Compounds and Radiopharmaceuticals, 2005, 48, 131-137.	0.5	28
196	Gene therapy imaging in patients for oncological applications. European Journal of Nuclear Medicine and Molecular Imaging, 2005, 32, S384-S403.	3.3	61
197	Comparison of $^{14}\text{C}$ FMAU, $^3\text{H}$ FEAU, $^{14}\text{C}$ FIAU, and $^3\text{H}$ PCV for Monitoring Reporter Gene Expression of Wild Type and Mutant Herpes Simplex Virus Type 1 Thymidine Kinase in Cell Culture. Molecular Imaging and Biology, 2005, 7, 296-303.	1.3	59
198	Imaging studies for evaluating gene therapy in translational research. Drug Discovery Today: Technologies, 2005, 2, 335-343.	4.0	4

#	ARTICLE	IF	CITATIONS
199	Comparison of [ 18 F]FHBC and [ 14 C]FIAU for imaging of HSV1-tk reporter gene expression: adenoviral infection vs stable transfection. European Journal of Nuclear Medicine and Molecular Imaging, 2003, 30, 1547-1560.	3.3	94
200	Monitoring Gene Therapy by Positron Emission Tomography. , 2003, , 659-685.		3
201	Ex vivo cell labeling with 64Cu-pyruvaldehyde-bis(N4-methylthiosemicarbazone) for imaging cell trafficking in mice with positron-emission tomography. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3030-3035.	3.3	333
202	Molecular imaging of cancer with positron emission tomography. Nature Reviews Cancer, 2002, 2, 683-693.	12.8	1,481
203	Seeing is believing: Non-invasive, quantitative and repetitive imaging of reporter gene expression in living animals, using positron emission tomography. Journal of Neuroscience Research, 2000, 59, 699-705.	1.3	103
204	Quantification of target gene expression by imaging reporter gene expression in living animals. Nature Medicine, 2000, 6, 933-937.	15.2	219
205	Seeing is believing: Non-invasive, quantitative and repetitive imaging of reporter gene expression in living animals, using positron emission tomography. Journal of Neuroscience Research, 2000, 59, 699.	1.3	3
206	Imaging Cell Trafficking and Immune Cell Activation Using PET Reporter Genes. , 0, , 258-274.		0
207	Noninvasive Imaging of Gene Expression with Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy. , 0, , 88-110.		1
208	Clinical Applications of Reporter Gene Technology. , 0, , 297-314.		1
209	Multimodality Imaging of Reporter Genes. , 0, , 113-126.		2
210	Cell-Specific Imaging of Reporter Gene Expression Using a Two-Step Transcriptional Amplification Strategy. , 0, , 127-148.		2
211	Physics, Instrumentation, and Methods for Imaging Reporter Gene Expression in Living Subjects. , 0, , 151-192.		0
212	Reporter Gene Imaging of Cell Signal Transduction. , 0, , 195-226.		0
213	Gene Therapy and Imaging of Transgene Expression in Living Subjects. , 0, , 227-238.		1
214	Imaging Regulation of Endogenous Gene Expression in Living Subjects. , 0, , 239-257.		0
215	Imaging of Reporter Genes and Stem Cells. , 0, , 275-296.		0
216	Revealing Biomolecular Mechanisms Through In Vivo Bioluminescence Imaging. , 0, , 41-69.		0

#	ARTICLE	IF	CITATIONS
217	Reporter Gene Imaging with PET/SPECT. , 0, , 70-87.		2