

Sanjiv Sam Gambhir

List of Publications by Citations

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213
papers

17,005
citations

59
h-index

129
g-index

230
ext. papers

20,187
ext. citations

12.4
avg, IF

7.13
L-index

#	Paper	IF	Citations
213	Molecular imaging of cancer with positron emission tomography. <i>Nature Reviews Cancer</i> , 2002 , 2, 683-93	31.3	1288
212	Carbon nanotubes as photoacoustic molecular imaging agents in living mice. <i>Nature Nanotechnology</i> , 2008 , 3, 557-62	28.7	1065
211	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. <i>Nature Nanotechnology</i> , 2014 , 9, 233-9	28.7	898
210	Molecular imaging in drug development. <i>Nature Reviews Drug Discovery</i> , 2008 , 7, 591-607	64.1	849
209	A brain tumor molecular imaging strategy using a new triple-modality MRI-photoacoustic-Raman nanoparticle. <i>Nature Medicine</i> , 2012 , 18, 829-34	50.5	847
208	A molecular imaging primer: modalities, imaging agents, and applications. <i>Physiological Reviews</i> , 2012 , 92, 897-965	47.9	713
207	Nanomaterials for In Vivo Imaging. <i>Chemical Reviews</i> , 2017 , 117, 901-986	68.1	675
206	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, 13511-6	11.5	575
205	Molecular imaging with theranostic nanoparticles. <i>Accounts of Chemical Research</i> , 2011 , 44, 1050-60	24.3	401
204	Noninvasive cell-tracking methods. <i>Nature Reviews Clinical Oncology</i> , 2011 , 8, 677-88	19.4	374
203	Matrix-insensitive protein assays push the limits of biosensors in medicine. <i>Nature Medicine</i> , 2009 , 15, 1327-32	50.5	315
202	Gold nanorods for ovarian cancer detection with photoacoustic imaging and resection guidance via Raman imaging in living mice. <i>ACS Nano</i> , 2012 , 6, 10366-77	16.7	306
201	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, 53-8		305
200	Ex vivo cell labeling with ⁶⁴ Cu-pyruvaldehyde-bis(N4-methylthiosemicarbazone) for imaging cell trafficking in mice with positron-emission tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 3030-5	11.5	301
199	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	19	265
198	Miniature gold nanorods for photoacoustic molecular imaging in the second near-infrared optical window. <i>Nature Nanotechnology</i> , 2019 , 14, 465-472	28.7	226
197	Eradication of spontaneous malignancy by local immunotherapy. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	212

196	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	11.5	205
195	Quantification of target gene expression by imaging reporter gene expression in living animals. <i>Nature Medicine</i> , 2000 , 6, 933-7	50.5	197
194	Reporter gene imaging of targeted T cell immunotherapy in recurrent glioma. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	196
193	Photoacoustic clinical imaging. <i>Photoacoustics</i> , 2019 , 14, 77-98	9	194
192	Selective uptake of single-walled carbon nanotubes by circulating monocytes for enhanced tumour delivery. <i>Nature Nanotechnology</i> , 2014 , 9, 481-7	28.7	188
191	A novel high-sensitivity rapid-acquisition single-photon cardiac imaging camera. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 635-43	8.9	179
190	Towards clinically translatable nanodiagnostics. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	178
189	The Exosome Total Isolation Chip. <i>ACS Nano</i> , 2017 , 11, 10712-10723	16.7	173
188	Activatable oligomerizable imaging agents for photoacoustic imaging of furin-like activity in living subjects. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11015-22	16.4	168
187	Mathematical model identifies blood biomarker-based early cancer detection strategies and limitations. <i>Science Translational Medicine</i> , 2011 , 3, 109ra116	17.5	155
186	Integrating genomic features for non-invasive early lung cancer detection. <i>Nature</i> , 2020 , 580, 245-251	50.4	147
185	Molecular imaging: the vision and opportunity for radiology in the future. <i>Radiology</i> , 2007 , 244, 39-47	20.5	140
184	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, 12408-13	11.5	133
183	Clinically Approved Nanoparticle Imaging Agents. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 1833-1837	8.9	129
182	The fate and toxicity of Raman-active silica-gold nanoparticles in mice. <i>Science Translational Medicine</i> , 2011 , 3, 79ra33	17.5	128
181	Pilot Comparison of ¹⁸ F-α-RM2 PET and ¹⁸ F-α-PSMA-11 PET in Patients with Biochemically Recurrent Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 557-62	8.9	122
180	Pilot pharmacokinetic and dosimetric studies of (18)F-FPPRGD2: a PET radiopharmaceutical agent for imaging α (v)β3 integrin levels. <i>Radiology</i> , 2011 , 260, 182-91	20.5	118
179	Novel Radiotracer for ImmunoPET Imaging of PD-1 Checkpoint Expression on Tumor Infiltrating Lymphocytes. <i>Bioconjugate Chemistry</i> , 2015 , 26, 2062-9	6.3	109

178	PET imaging of herpes simplex virus type 1 thymidine kinase (HSV1-tk) or mutant HSV1-sr39tk reporter gene expression in mice and humans using [18F]FHBG. <i>Nature Protocols</i> , 2006 , 1, 3069-75	18.8	105
177	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	16.7	104
176	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	4.4	96
175	Exploratory clinical trial of (4S)-4-(3-[18F]fluoropropyl)-L-glutamate for imaging xC- transporter using positron emission tomography in patients with non-small cell lung or breast cancer. <i>Clinical Cancer Research</i> , 2012 , 18, 5427-37	12.9	95
174	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, 329-39	5.4	95
173	Development and MPI tracking of novel hypoxia-targeted theranostic exosomes. <i>Biomaterials</i> , 2018 , 177, 139-148	15.6	94
172	Endoscopic molecular imaging of human bladder cancer using a CD47 antibody. <i>Science Translational Medicine</i> , 2014 , 6, 260ra148	17.5	92
171	Carbon-coated FeCo nanoparticles as sensitive magnetic-particle-imaging tracers with photothermal and magnetothermal properties. <i>Nature Biomedical Engineering</i> , 2020 , 4, 325-334	19	90
170	Toward achieving precision health. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	90
169	Comparison of [18F]FHBG and [14C]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, 1547-60	8.8	87
168	Practical Immuno-PET Radiotracer Design Considerations for Human Immune Checkpoint Imaging. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 538-546	8.9	86
167	A real-time clinical endoscopic system for intraluminal, multiplexed imaging of surface-enhanced Raman scattering nanoparticles. <i>PLoS ONE</i> , 2015 , 10, e0123185	3.7	79
166	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	11.5	79
165	Prospective Comparison of 99mTc-MDP Scintigraphy, Combined 18F-NaF and 18F-FDG PET/CT, and Whole-Body MRI in Patients with Breast and Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 1862-8	8.8	78
164	Imaging approaches to optimize molecular therapies. <i>Science Translational Medicine</i> , 2016 , 8, 355ps16	17.5	78
163	Tomographic magnetic particle imaging of cancer targeted nanoparticles. <i>Nanoscale</i> , 2017 , 9, 18723-18739	7.9	74
162	Imaging activated T cells predicts response to cancer vaccines. <i>Journal of Clinical Investigation</i> , 2018 , 128, 2569-2580	15.9	74
161	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	10.1	73

160	Fluorescent magnetic nanoparticles for magnetically enhanced cancer imaging and targeting in living subjects. <i>ACS Nano</i> , 2012 , 6, 6862-9	16.7	70
159	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	3.8	68
158	Deep tissue photoacoustic imaging using a miniaturized 2-D capacitive micromachined ultrasonic transducer array. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 1199-204	5	67
157	Investigation of 6-[18 F]-fluoromaltose as a novel PET tracer for imaging bacterial infection. <i>PLoS ONE</i> , 2014 , 9, e107951	3.7	66
156	Proof-of-concept study of monitoring cancer drug therapy with cerenkov luminescence imaging. <i>Journal of Nuclear Medicine</i> , 2012 , 53, 312-317	8.9	60
155	Engineered immune cells as highly sensitive cancer diagnostics. <i>Nature Biotechnology</i> , 2019 , 37, 531-539	44.5	59
154	Simultaneous whole-body time-of-flight 18F-FDG PET/MRI: a pilot study comparing SUVmax with PET/CT and assessment of MR image quality. <i>Clinical Nuclear Medicine</i> , 2015 , 40, 1-8	1.7	59
153	A mountable toilet system for personalized health monitoring via the analysis of excreta. <i>Nature Biomedical Engineering</i> , 2020 , 4, 624-635	19	59
152	An intravascular magnetic wire for the high-throughput retrieval of circulating tumour cells in vivo. <i>Nature Biomedical Engineering</i> , 2018 , 2, 696-705	19	59
151	New positron emission tomography (PET) radioligand for imaging β_1 receptors in living subjects. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 8272-8282	8.3	59
150	Circulating tumor microemboli diagnostics for patients with non-small-cell lung cancer. <i>Journal of Thoracic Oncology</i> , 2014 , 9, 1111-9	8.9	53
149	Evaluation of a (64 Cu)-labeled cystine-knot peptide based on agouti-related protein for PET of tumors expressing alphavbeta3 integrin. <i>Journal of Nuclear Medicine</i> , 2010 , 51, 251-258	8.9	53
148	The Immunoimaging Toolbox. <i>Journal of Nuclear Medicine</i> , 2018 , 59, 1174-1182	8.9	52
147	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, 096008	3.5	51
146	Gene therapy imaging in patients for oncological applications. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2005 , 32 Suppl 2, S384-403	8.8	51
145	Comparison of [14 C]FMAU, [3 H]FEAU, [14 C]FIAU, and [3 H]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	3.8	51
144	Surface-Enhanced Raman Scattering Nanoparticles for Multiplexed Imaging of Bladder Cancer Tissue Permeability and Molecular Phenotype. <i>ACS Nano</i> , 2018 , 12, 9669-9679	16.7	49
143	Specific Imaging of Bacterial Infection Using 6 β -F-Fluoromaltotriose: A Second-Generation PET Tracer Targeting the Maltodextrin Transporter in Bacteria. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 1679-1684	8.9	48

142	Simultaneous transrectal ultrasound and photoacoustic human prostate imaging. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	45
141	A Systematic Comparison of 18F-C-SNAT to Established Radiotracer Imaging Agents for the Detection of Tumor Response to Treatment. <i>Clinical Cancer Research</i> , 2015 , 21, 3896-905	12.9	42
140	Molecular imaging of PET reporter gene expression. <i>Handbook of Experimental Pharmacology</i> , 2008 , 277-303	3.0	42
139	Pilot Preclinical and Clinical Evaluation of (4S)-4-(3-[18F]Fluoropropyl)-L-Glutamate (18F-FSPG) for PET/CT Imaging of Intracranial Malignancies. <i>PLoS ONE</i> , 2016 , 11, e0148628	3.7	40
138	Glioblastoma Multiforme Recurrence: An Exploratory Study of (18)F FPPRGD2 PET/CT. <i>Radiology</i> , 2015 , 277, 497-506	20.5	39
137	A PET imaging approach for determining EGFR mutation status for improved lung cancer patient management. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	39
136	Emerging Intraoperative Imaging Modalities to Improve Surgical Precision. <i>Molecular Imaging and Biology</i> , 2018 , 20, 705-715	3.8	39
135	A comparison between a time domain and continuous wave small animal optical imaging system. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 58-63	11.7	39
134	Mitochondrial copper depletion suppresses triple-negative breast cancer in mice. <i>Nature Biotechnology</i> , 2021 , 39, 357-367	44.5	39
133	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	11.5	38
132	Maltotriose-based probes for fluorescence and photoacoustic imaging of bacterial infections. <i>Nature Communications</i> , 2020 , 11, 1250	17.4	37
131	A mathematical model of ctDNA shedding predicts tumor detection size. <i>Science Advances</i> , 2020 , 6,	14.3	36
130	ICOS Is an Indicator of T-cell-Mediated Response to Cancer Immunotherapy. <i>Cancer Research</i> , 2020 , 80, 3023-3032	10.1	36
129	PET imaging of tumor glycolysis downstream of hexokinase through noninvasive measurement of pyruvate kinase M2. <i>Science Translational Medicine</i> , 2015 , 7, 310ra169	17.5	35
128	A strategy for blood biomarker amplification and localization using ultrasound. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17152-7	11.5	35
127	Biodistribution of the ^{67}Ga -FPPRGD P PET radiopharmaceutical in cancer patients: an atlas of SUV measurements. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015 , 42, 1850-8	8.8	34
126	18F-FDG silicon photomultiplier PET/CT: A pilot study comparing semi-quantitative measurements with standard PET/CT. <i>PLoS ONE</i> , 2017 , 12, e0178936	3.7	34
125	Initial experience with a SiPM-based PET/CT scanner: influence of acquisition time on image quality. <i>EJNMMI Physics</i> , 2018 , 5, 9	4.4	33

124	Detecting cancers through tumor-activatable minicircles that lead to a detectable blood biomarker. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3068-73	11.5	32
123	A high-affinity, high-stability photoacoustic agent for imaging gastrin-releasing peptide receptor in prostate cancer. <i>Clinical Cancer Research</i> , 2014 , 20, 3721-9	12.9	32
122	Microvesicle-Mediated Delivery of Minicircle DNA Results in Effective Gene-Directed Enzyme Prodrug Cancer Therapy. <i>Molecular Cancer Therapeutics</i> , 2019 , 18, 2331-2342	6.1	30
121	⁶⁴ Cu-Labeled Divalent Cystine Knot Peptide for Imaging Carotid Atherosclerotic Plaques. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 939-44	8.9	30
120	Nanomedicine for Spontaneous Brain Tumors: A Companion Clinical Trial. <i>ACS Nano</i> , 2019 , 13, 2858-2869	16.7	30
119	A Novel Theranostic Strategy for -Expressing Glioblastomas Impacts Survival. <i>Molecular Cancer Therapeutics</i> , 2017 , 16, 1909-1921	6.1	28
118	Imaging circulating tumor cells in freely moving awake small animals using a miniaturized intravital microscope. <i>PLoS ONE</i> , 2014 , 9, e86759	3.7	28
117	Synthesis of (4-[¹⁸ F]fluorophenyl)triphenylphosphonium as a potential imaging agent for mitochondrial dysfunction. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2005 , 48, 131-137	1.9	28
116	Early detection of cancer.. <i>Science</i> , 2022 , 375, eaay9040	33.3	27
115	Imaging B Cells in a Mouse Model of Multiple Sclerosis Using Cu-Rituximab PET. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 1845-1851	8.9	26
114	Molecular imaging of cancer: from molecules to humans. Introduction. <i>Journal of Nuclear Medicine</i> , 2008 , 49 Suppl 2, 1S-4S	8.9	26
113	Biodistribution and Radiation Dosimetry of F-FTC-146 in Humans. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 2004-2009	8.9	25
112	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	16.7	25
111	Assessment of Tumor Redox Status through ()-4-(3-[¹⁸ F]fluoropropyl)-L-Glutamic Acid PET Imaging of System x Activity. <i>Cancer Research</i> , 2019 , 79, 853-863	10.1	25
110	Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scattering-Nanoparticle Endoscopy. <i>ACS Nano</i> , 2019 , 13, 1354-1364	16.7	25
109	AshwaMAX and Withaferin A inhibits gliomas in cellular and murine orthotopic models. <i>Journal of Neuro-Oncology</i> , 2016 , 126, 253-64	4.8	24
108	Positron emission tomography of ⁶⁴ 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, 608-16	3.8	24
107	Plasmonic and Electrostatic Interactions Enable Uniformly Enhanced Liquid Bacterial Surface-Enhanced Raman Scattering (SERS). <i>Nano Letters</i> , 2020 , 20, 7655-7661	11.5	24

106	A photonic crystal cavity-optical fiber tip nanoparticle sensor for biomedical applications. <i>Applied Physics Letters</i> , 2012 , 100, 213702	3.4	23
105	A Model-Based Personalized Cancer Screening Strategy for Detecting Early-Stage Tumors Using Blood-Borne Biomarkers. <i>Cancer Research</i> , 2017 , 77, 2570-2584	10.1	21
104	Whole-body tracking of single cells via positron emission tomography. <i>Nature Biomedical Engineering</i> , 2020 , 4, 835-844	19	21
103	Molecular Imaging of Chimeric Antigen Receptor T Cells by ICOS-ImmunoPET. <i>Clinical Cancer Research</i> , 2021 , 27, 1058-1068	12.9	21
102	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	11.5	20
101	Synthesis of [¹⁸ F]-labelled maltose derivatives as PET tracers for imaging bacterial infection. <i>Molecular Imaging and Biology</i> , 2015 , 17, 168-76	3.8	20
100	Multiparametric Photoacoustic Analysis of Human Thyroid Cancers. <i>Cancer Research</i> , 2021 , 81, 4849-4860	10.1	20
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	20.5	19
98	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	11.5	19
97	Deactivated CRISPR Associated Protein 9 for Minor-Allele Enrichment in Cell-Free DNA. <i>Clinical Chemistry</i> , 2018 , 64, 307-316	5.5	19
96	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	12.9	19
95	Isolation and Characterization of a Monobody with a Fibronectin Domain III Scaffold That Specifically Binds EphA2. <i>PLoS ONE</i> , 2015 , 10, e0132976	3.7	18
94	Improving image quality by accounting for changes in water temperature during a photoacoustic tomography scan. <i>PLoS ONE</i> , 2012 , 7, e45337	3.7	18
93	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	8.9	18
92	Pilot prospective evaluation of (18)F-FPPRGD2 PET/CT in patients with cervical and ovarian cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016 , 43, 1047-55	8.8	17
91	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	3.8	17
90	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 & Interfaces</i> , 2020 , 12, 11307-11319	9.5	16
89	Synergistic inhibition of glioma cell proliferation by Withaferin A and tumor treating fields. <i>Journal of Neuro-Oncology</i> , 2017 , 134, 259-268	4.8	16

88	Development and validation of non-integrative, self-limited, and replicating minicircles for safe reporter gene imaging of cell-based therapies. <i>PLoS ONE</i> , 2013 , 8, e73138	3.7	16
87	Reduction Triggered Polymerization in Living Mice. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15575-15584	16.4	15
86	Semiquantitative Analysis of the Biodistribution of the Combined ^{18}F -NaF and ^{18}F -FDG Administration for PET/CT Imaging. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 688-94	8.9	14
85	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, 191-8	20.5	14
84	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	1.9	14
83	[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	10.1	13
82	Superiorized Photo-Acoustic Non-NEgative Reconstruction (SPANNER) for Clinical Photoacoustic Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 1888-1897	11.7	13
81	Improved detection of prostate cancer using a magneto-nanosensor assay for serum circulating autoantibodies. <i>PLoS ONE</i> , 2019 , 14, e0221051	3.7	12
80	Development of [F]DASA-23 for Imaging Tumor Glycolysis Through Noninvasive Measurement of Pyruvate Kinase M2. <i>Molecular Imaging and Biology</i> , 2017 , 19, 665-672	3.8	11
79	Longitudinal Monitoring of Antibody Responses against Tumor Cells Using Magneto-nanosensors with a Nanoliter of Blood. <i>Nano Letters</i> , 2017 , 17, 6644-6652	11.5	11
78	Characterization of Physiologic (18)F FSPG Uptake in Healthy Volunteers. <i>Radiology</i> , 2016 , 279, 898-905	20.5	11
77	Biodegradable fluorescent nanoparticles for endoscopic detection of colorectal carcinogenesis. <i>Advanced Functional Materials</i> , 2019 , 29, 1904992	15.6	11
76	Detection and quantitation of circulating tumor cell dynamics by bioluminescence imaging in an orthotopic mammary carcinoma model. <i>PLoS ONE</i> , 2014 , 9, e105079	3.7	11
75	Continuous health monitoring: An opportunity for precision health. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	11
74	Alk5 inhibition increases delivery of macromolecular and protein-bound contrast agents to tumors. <i>JCI Insight</i> , 2016 , 1,	9.9	10
73	The Project Baseline Health Study: a step towards a broader mission to map human health. <i>Npj Digital Medicine</i> , 2020 , 3, 84	15.7	10
72	A Magnetic Bead-Based Sensor for the Quantification of Multiple Prostate Cancer Biomarkers. <i>PLoS ONE</i> , 2015 , 10, e0139484	3.7	10
71	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	10.1	10

70	Tumor characterization by ultrasound-release of multiple protein and microRNA biomarkers, preclinical and clinical evidence. <i>PLoS ONE</i> , 2018 , 13, e0194268	3.7	8
69	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,	11.5	8
68	Evaluation of Glycolytic Response to Multiple Classes of Anti-glioblastoma Drugs by Noninvasive Measurement of Pyruvate Kinase M2 Using [F]DASA-23. <i>Molecular Imaging and Biology</i> , 2020 , 22, 124-133	3.8	8
67	PET Imaging of TIGIT Expression on Tumor-Infiltrating Lymphocytes. <i>Clinical Cancer Research</i> , 2021 , 27, 1932-1940	12.9	8
66	The Characterization of F-hGTS13 for Molecular Imaging of x Transporter Activity with PET. <i>Journal of Nuclear Medicine</i> , 2019 , 60, 1812-1817	8.9	7
65	Ferumoxytol-based Dual-modality Imaging Probe for Detection of Stem Cell Transplant Rejection. <i>Nanotheranostics</i> , 2018 , 2, 306-319	5.6	7
64	A Dual-Modality Hybrid Imaging System Harnesses Radioluminescence and Sound to Reveal Molecular Pathology of Atherosclerotic Plaques. <i>Scientific Reports</i> , 2018 , 8, 8992	4.9	7
63	Clinical Evaluation of (4S)-4-(3-[F]Fluoropropyl)-L-glutamate (F-FSPG) for PET/CT Imaging in Patients with Newly Diagnosed and Recurrent Prostate Cancer. <i>Clinical Cancer Research</i> , 2020 , 26, 5380-5387	13.9	7
62	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	10.1	7
61	Ultra-selective carbon nanotubes for photoacoustic imaging of inflamed atherosclerotic plaques. <i>Advanced Functional Materials</i> , 2021 , 31, 2101005	15.6	7
60	A novel synthesis of 6R[F]-fluoromaltotriose as a PET tracer for imaging bacterial infection. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2018 , 61, 408-414	1.9	6
59	[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	6.3	5
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