Sanjiv Sam Gambhir

List of Publications by Year in Descending Order

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	Nuclear Imaging of Endogenous Markers of Lymphocyte Response **2022**, 15-59		
212	Design and evaluation of Raman reporters for the Raman-silent region.. *Nanotheranostics*, **2022**, 6, 1-9	5.6	2
211	F-FSPG PET/CT Imaging of System x Transporter Activity in Patients with Primary and Metastatic Brain Tumors.. *Radiology*, **2022**, 203296	20.5	0
210	Alternative medicine: therapeutic effects on gastric original signet ring carcinoma via ascorbate and combination with sodium alpha lipoate.. *BMC Complementary Medicine and Therapies*, **2022**, 22, 58	2.9	
209	Early detection of cancer.. *Science*, **2022**, 375, eaay9040	33.3	27
208	Pilot-phase PET/CT study targeting integrin □n pancreatic cancer patients using the cystine-knot peptide-based F-FP-R1-MG-F2. *European Journal of Nuclear Medicine and Molecular Imaging*, **2021**, 1	8.8	1
207	Noninvasive and Highly Multiplexed Five-Color Tumor Imaging of Multicore Near-Infrared Resonant Surface-Enhanced Raman Nanoparticles. *ACS Nano*, **2021**,	16.7	3
206	A protease-activated, near-infrared fluorescent probe for early endoscopic detection of premalignant gastrointestinal lesions. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
205	Ultra-high-frequency radio-frequency acoustic molecular imaging with saline nanodroplets in living subjects. *Nature Nanotechnology*, **2021**, 16, 717-724	28.7	4
204	SPECT/CT Imaging, Biodistribution and Radiation Dosimetry of a Lu-DOTA-Integrin □□ Cystine Knot Peptide in a Pancreatic Cancer Xenograft Model. *Frontiers in Oncology*, **2021**, 11, 684713	5.3	0
203	Detection of Carotid Artery Stenosis with Intraplaque Hemorrhage and Neovascularization Using a Scanning Interferometer. *Nano Letters*, **2021**, 21, 5714-5721	11.5	
202	Ultra-selective carbon nanotubes for photoacoustic imaging of inflamed atherosclerotic plaques. *Advanced Functional Materials*, **2021**, 31, 2101005	15.6	7
201	Continuous health monitoring: An opportunity for precision health. *Science Translational Medicine*, **2021**, 13,	17.5	11
200	Multiparametric Photoacoustic Analysis of Human Thyroid Cancers. *Cancer Research*, **2021**, 81, 4849-4860	10.1	20
199	Return of individual research results: What do participants prefer and expect?. *PLoS ONE*, **2021**, 16, e0254753	3.7	1
198	Mitochondrial copper depletion suppresses triple-negative breast cancer in mice. *Nature Biotechnology*, **2021**, 39, 357-367	44.5	39
197	Molecular Imaging of Chimeric Antigen Receptor T Cells by ICOS-ImmunoPET. *Clinical Cancer Research*, **2021**, 27, 1058-1068	12.9	21

196	Tumor treating fields (TTFields) impairs aberrant glycolysis in glioblastoma as evaluated by [F]DASA-23, a non-invasive probe of pyruvate kinase M2 (PKM2) expression. *Neoplasia*, **2021**, 23, 58-67	6.4	3
195	Giant Magnetoresistive Nanosensor Analysis of Circulating Tumor DNA Epidermal Growth Factor Receptor Mutations for Diagnosis and Therapy Response Monitoring. *Clinical Chemistry*, **2021**, 67, 534-542	5.5	2
194	Molecular Imaging Using Raman Scattering **2021**, 343-357		
193	Superiorized Photo-Acoustic Non-NEgative Reconstruction (SPANNER) for Clinical Photoacoustic Imaging. *IEEE Transactions on Medical Imaging*, **2021**, 40, 1888-1897	11.7	13
192	Minicircles for a two-step blood biomarker and PET imaging early cancer detection strategy. *Journal of Controlled Release*, **2021**, 335, 281-289	11.7	4
191	Ultraselective Carbon Nanotubes for Photoacoustic Imaging of Inflamed Atherosclerotic Plaques (Adv. Funct. Mater. 37/2021). *Advanced Functional Materials*, **2021**, 31, 2170271	15.6	1
190	Whole-body PET Imaging of T-cell Response to Glioblastoma. *Clinical Cancer Research*, **2021**, 27, 6445-6456	12.9	2
189	A Clinical PET Imaging Tracer ([F]DASA-23) to Monitor Pyruvate Kinase M2-Induced Glycolytic Reprogramming in Glioblastoma. *Clinical Cancer Research*, **2021**, 27, 6467-6478	12.9	0
188	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	2.5	
187	PET Imaging of TIGIT Expression on Tumor-Infiltrating Lymphocytes. *Clinical Cancer Research*, **2021**, 27, 1932-1940	12.9	8
186	A mathematical model of ctDNA shedding predicts tumor detection size. *Science Advances*, **2020**, 6,	14.3	36
185	Low-frequency ultrasound-mediated cytokine transfection enhances T cell recruitment at local and distant tumor sites. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12674-12685	11.5	19
184	Isotopically Encoded Nanotags for Multiplexed Ion Beam Imaging. *Advanced Materials Technologies*, **2020**, 5, 2000098	6.8	0
183	Molecular Imaging of Infective Endocarditis With 6-[F]Fluoromaltotriose Positron Emission Tomography-Computed Tomography. *Circulation*, **2020**, 141, 1729-1731	16.7	3
182	Whole-body tracking of single cells via positron emission tomography. *Nature Biomedical Engineering*, **2020**, 4, 835-844	19	21
181	The Project Baseline Health Study: a step towards a broader mission to map human health. *Npj Digital Medicine*, **2020**, 3, 84	15.7	10
180	Integrating genomic features for non-invasive early lung cancer detection. *Nature*, **2020**, 580, 245-251	50.4	147
179	A mountable toilet system for personalized health monitoring via the analysis of excreta. *Nature Biomedical Engineering*, **2020**, 4, 624-635	19	59

178	Maltotriose-based probes for fluorescence and photoacoustic imaging of bacterial infections. *Nature Communications*, **2020**, 11, 1250	17.4	37
177	New synthesis of 6?-[F]fluoromaltotriose for positron emission tomography imaging of bacterial infection. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2020**, 63, 466-475	1.9	0
176	SP94-Targeted Triblock Copolymer Nanoparticle Delivers Thymidine Kinase-p53-Nitroreductase Triple Therapeutic Gene and Restores Anticancer Function against Hepatocellular Carcinoma in Vivo. *ACS Applied Materials & Interfaces*, **2020**, 12, 11307-11319	9.5	16
175	Human biodistribution and radiation dosimetry of [F]DASA-23, a PET probe targeting pyruvate kinase M2. *European Journal of Nuclear Medicine and Molecular Imaging*, **2020**, 47, 2123-2130	8.8	4
174	Carbon-coated FeCo nanoparticles as sensitive magnetic-particle-imaging tracers with photothermal and magnetothermal properties. *Nature Biomedical Engineering*, **2020**, 4, 325-334	19	90
173	Reconstructed Apoptotic Bodies as Targeted "Nano Decoys" to Treat Intracellular Bacterial Infections within Macrophages and Cancer Cells. *ACS Nano*, **2020**, 14, 5818-5835	16.7	25
172	Non-Invasive Photoacoustic Imaging of In Vivo Mice with Erythrocyte Derived Optical Nanoparticles to Detect CAD/MI. *Scientific Reports*, **2020**, 10, 5983	4.9	4
171	Trop2 is a driver of metastatic prostate cancer with neuroendocrine phenotype via PARP1. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 2032-2042	11.5	38
170	Molecular Imaging of Chimeric Antigen Receptor T Cells By ICOS-Immunopet. *Blood*, **2020**, 136, 5-6	2.2	2
169	The Future of Precision Health & Integrated Diagnostics **2020**, 281-284		
168	First-in-human liver-tumour surgery guided by multispectral fluorescence imaging in the visible and near-infrared-I/II windows. *Nature Biomedical Engineering*, **2020**, 4, 259-271	19	265
167	PET Reporter Gene Imaging and Ganciclovir-Mediated Ablation of Chimeric Antigen Receptor T Cells in Solid Tumors. *Cancer Research*, **2020**, 80, 4731-4740	10.1	10
166	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. *Clinical Cancer Research*, **2020**, 26, 5380-5387	12.9	7
165	Synthesis and Characterization of 9-(4-[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. *Molecular Imaging and*	3.8	4
164	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. *Molecular Imaging*, **2020**, 19, 1536012120939398	3.7	0
163	Discovery and Optimization of Small-Molecule Ligands for V-Domain Ig Suppressor of T-Cell Activation (VISTA). *Journal of the American Chemical Society*, **2020**, 142, 16194-16198	16.4	5
162	Visualization of Activated T Cells by OX40-ImmunoPET as a Strategy for Diagnosis of Acute Graft-versus-Host Disease. *Cancer Research*, **2020**, 80, 4780-4790	10.1	7
161	Plasmonic and Electrostatic Interactions Enable Uniformly Enhanced Liquid Bacterial Surface-Enhanced Raman Scattering (SERS). *Nano Letters*, **2020**, 20, 7655-7661	11.5	24

160	Reduction Triggered Polymerization in Living Mice. *Journal of the American Chemical Society*, **2020**, 142, 15575-15584	16.4	15
159	Evaluation of Glycolytic Response to Multiple Classes of Anti-glioblastoma Drugs by Noninvasive Measurement of Pyruvate Kinase M2 Using [F]DASA-23. *Molecular Imaging and Biology*, **2020**, 22, 124-133	3.8	8
158	ICOS Is an Indicator of T-cell-Mediated Response to Cancer Immunotherapy. *Cancer Research*, **2020**, 80, 3023-3032	10.1	36
157	Simultaneous transrectal ultrasound and photoacoustic human prostate imaging. *Science Translational Medicine*, **2019**, 11,	17.5	45
156	Microvesicle-Mediated Delivery of Minicircle DNA Results in Effective Gene-Directed Enzyme Prodrug Cancer Therapy. *Molecular Cancer Therapeutics*, **2019**, 18, 2331-2342	6.1	30
155	Positron emission tomography reporter gene strategy for use in the central nervous system. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 11402-11407	11.5	20
154	Photoacoustic clinical imaging. *Photoacoustics*, **2019**, 14, 77-98	9	194
153	The Characterization of F-hGTS13 for Molecular Imaging of x Transporter Activity with PET. *Journal of Nuclear Medicine*, **2019**, 60, 1812-1817	8.9	7
152	Engineered immune cells as highly sensitive cancer diagnostics. *Nature Biotechnology*, **2019**, 37, 531-539	44.5	59
151	Miniature gold nanorods for photoacoustic molecular imaging in the second near-infrared optical window. *Nature Nanotechnology*, **2019**, 14, 465-472	28.7	226
150	[F]-SuPAR: A Radiofluorinated Probe for Noninvasive Imaging of DNA Damage-Dependent Poly(ADP-ribose) Polymerase Activity. *Bioconjugate Chemistry*, **2019**, 30, 1331-1342	6.3	5
149	In Vivo Translation of the CIRPI System: Revealing Molecular Pathology of Rabbit Aortic Atherosclerotic Plaques. *Journal of Nuclear Medicine*, **2019**, 60, 1308-1316	8.9	2
148	Improved detection of prostate cancer using a magneto-nanosensor assay for serum circulating autoantibodies. *PLoS ONE*, **2019**, 14, e0221051	3.7	12
147	Biodegradable fluorescent nanoparticles for endoscopic detection of colorectal carcinogenesis. *Advanced Functional Materials*, **2019**, 29, 1904992	15.6	11
146	How to Prevent a Leaky Pipeline in Academic Radiology: Insights From a Faculty Survey. *Journal of the American College of Radiology*, **2019**, 16, 1220-1224	3.5	2
145	Nanomedicine for Spontaneous Brain Tumors: A Companion Clinical Trial. *ACS Nano*, **2019**, 13, 2858-2869	16.7	30
144	Initial experience with a PET/computed tomography system using silicon photomultiplier detectors. *Nuclear Medicine Communications*, **2019**, 40, 1174-1178	1.6	1
143	Assessment of Tumor Redox Status through ()-4-(3-[F]fluoropropyl)-L-Glutamic Acid PET Imaging of System x Activity. *Cancer Research*, **2019**, 79, 853-863	10.1	25

142	Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scattering-Nanoparticle Endoscopy. *ACS Nano*, **2019**, 13, 1354-1364	16.7	25
141	A Novel Engineered Small Protein for Positron Emission Tomography Imaging of Human Programmed Death Ligand-1: Validation in Mouse Models and Human Cancer Tissues. *Clinical Cancer Research*, **2019**, 25, 1774-1785	12.9	19
140	A PET imaging approach for determining EGFR mutation status for improved lung cancer patient management. *Science Translational Medicine*, **2018**, 10,	17.5	39
139	Toward achieving precision health. *Science Translational Medicine*, **2018**, 10,	17.5	90
138	Eradication of spontaneous malignancy by local immunotherapy. *Science Translational Medicine*, **2018**, 10,	17.5	212
137	A novel synthesis of 6[illegible][F]-fluoromaltotriose as a PET tracer for imaging bacterial infection. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2018**, 61, 408-414	1.9	6
136	A blood biomarker for monitoring response to anti-EGFR therapy. *Cancer Biomarkers*, **2018**, 22, 333-344	3.8	2
135	Initial experience with a SiPM-based PET/CT scanner: influence of acquisition time on image quality. *EJNMMI Physics*, **2018**, 5, 9	4.4	33
134	[F]FSPG-PET reveals increased cystine/glutamate antiporter (xc-) activity in a mouse model of multiple sclerosis. *Journal of Neuroinflammation*, **2018**, 15, 55	10.1	13
133	Deactivated CRISPR Associated Protein 9 for Minor-Allele Enrichment in Cell-Free DNA. *Clinical Chemistry*, **2018**, 64, 307-316	5.5	19
132	Quantification of Cerenkov Luminescence Imaging (CLI) Comparable With 3-D PET Standard Measurements. *Molecular Imaging*, **2018**, 17, 1536012118788637	3.7	3
131	Ferumoxytol-based Dual-modality Imaging Probe for Detection of Stem Cell Transplant Rejection. *Nanotheranostics*, **2018**, 2, 306-319	5.6	7
130	An intravascular magnetic wire for the high-throughput retrieval of circulating tumour cells in vivo. *Nature Biomedical Engineering*, **2018**, 2, 696-705	19	59
129	The Utility of [F]DASA-23 for Molecular Imaging of Prostate Cancer with Positron Emission Tomography. *Molecular Imaging and Biology*, **2018**, 20, 1015-1024	3.8	5
128	Emerging Intraoperative Imaging Modalities to Improve Surgical Precision. *Molecular Imaging and Biology*, **2018**, 20, 705-715	3.8	39
127	A Dual-Modality Hybrid Imaging System Harnesses Radioluminescence and Sound to Reveal Molecular Pathology of Atherosclerotic Plaques. *Scientific Reports*, **2018**, 8, 8992	4.9	7
126	Imaging activated T cells predicts response to cancer vaccines. *Journal of Clinical Investigation*, **2018** , 128, 2569-2580	15.9	74
125	Tumor characterization by ultrasound-release of multiple protein and microRNA biomarkers, preclinical and clinical evidence. *PLoS ONE*, **2018**, 13, e0194268	3.7	8

124	Tracking T Cell Activation By OX40 Immuno-PET: A Novel Strategy for Imaging of Graft Versus Host Disease. *Blood*, **2018**, 132, 4527-4527	2.2	
123	Tumor Cell-Derived Extracellular Vesicle-Coated Nanocarriers: An Efficient Theranostic Platform for the Cancer-Specific Delivery of Anti-miR-21 and Imaging Agents. *ACS Nano*, **2018**, 12, 10817-10832	16.7	104
122	Surface-Enhanced Raman Scattering Nanoparticles for Multiplexed Imaging of Bladder Cancer Tissue Permeability and Molecular Phenotype. *ACS Nano*, **2018**, 12, 9669-9679	16.7	49
121	Development and MPI tracking of novel hypoxia-targeted theranostic exosomes. *Biomaterials*, **2018**, 177, 139-148	15.6	94
120	The Immunoimaging Toolbox. *Journal of Nuclear Medicine*, **2018**, 59, 1174-1182	8.9	52
119	Reply: 6?-F-Fluoromaltotriose PET Evaluation in -Induced Myositis: Is There Uptake Saturation in Control?. *Journal of Nuclear Medicine*, **2018**, 59, 1166-1167	8.9	
118	Reporter gene imaging of targeted T cell immunotherapy in recurrent glioma. *Science Translational Medicine*, **2017**, 9,	17.5	196
117	Detection of Stem Cell Transplant Rejection with Ferumoxytol MR Imaging: Correlation of MR Imaging Findings with Those at Intravital Microscopy. *Radiology*, **2017**, 284, 495-507	20.5	19
116	A Model-Based Personalized Cancer Screening Strategy for Detecting Early-Stage Tumors Using Blood-Borne Biomarkers. *Cancer Research*, **2017**, 77, 2570-2584	10.1	21
115	Development of [F]DASA-23 for Imaging Tumor Glycolysis Through Noninvasive Measurement of Pyruvate Kinase M2. *Molecular Imaging and Biology*, **2017**, 19, 665-672	3.8	11
114	Development of Novel ImmunoPET Tracers to Image Human PD-1 Checkpoint Expression on Tumor-Infiltrating Lymphocytes in a Humanized Mouse Model. *Molecular Imaging and Biology*, **2017**, 19, 903-914	3.8	68
113	Specific Imaging of Bacterial Infection Using 6?-F-Fluoromaltotriose: A Second-Generation PET Tracer Targeting the Maltodextrin Transporter in Bacteria. *Journal of Nuclear Medicine*, **2017**, 58, 1679-1684	8.9	48
112	Towards clinically translatable nanodiagnostics. *Nature Reviews Materials*, **2017**, 2,	73.3	178
111	Biodistribution and Radiation Dosimetry of F-FTC-146 in Humans. *Journal of Nuclear Medicine*, **2017**, 58, 2004-2009	8.9	25
110	Nanomaterials for In Vivo Imaging. *Chemical Reviews*, **2017**, 117, 901-986	68.1	675
109	Practical Immuno-PET Radiotracer Design Considerations for Human Immune Checkpoint Imaging. *Journal of Nuclear Medicine*, **2017**, 58, 538-546	8.9	86
108	The Exosome Total Isolation Chip. *ACS Nano*, **2017**, 11, 10712-10723	16.7	173
107	Longitudinal Monitoring of Antibody Responses against Tumor Cells Using Magneto-nanosensors with a Nanoliter of Blood. *Nano Letters*, **2017**, 17, 6644-6652	11.5	11

106	Tomographic magnetic particle imaging of cancer targeted nanoparticles. *Nanoscale*, **2017**, 9, 18723-18730	7.9	74
105	18F-FDG silicon photomultiplier PET/CT: A pilot study comparing semi-quantitative measurements with standard PET/CT. *PLoS ONE*, **2017**, 12, e0178936	3.7	34
104	Imaging B Cells in a Mouse Model of Multiple Sclerosis Using Cu-Rituximab PET. *Journal of Nuclear Medicine*, **2017**, 58, 1845-1851	8.9	26
103	Synergistic inhibition of glioma cell proliferation by Withaferin A and tumor treating fields. *Journal of Neuro-Oncology*, **2017**, 134, 259-268	4.8	16
102	A Novel Theranostic Strategy for -Expressing Glioblastomas Impacts Survival. *Molecular Cancer Therapeutics*, **2017**, 16, 1909-1921	6.1	28
101	A PET Imaging Strategy to Visualize Activated T Cells in Acute Graft-versus-Host Disease Elicited by Allogenic Hematopoietic Cell Transplant. *Cancer Research*, **2017**, 77, 2893-2902	10.1	73
100	Alk5 inhibition increases delivery of macromolecular and protein-bound contrast agents to tumors. *JCI Insight*, **2016**, 1,	9.9	10
99	Imaging approaches to optimize molecular therapies. *Science Translational Medicine*, **2016**, 8, 355ps16	17.5	78
98	Clinically Approved Nanoparticle Imaging Agents. *Journal of Nuclear Medicine*, **2016**, 57, 1833-1837	8.9	129
97	Characterization of Physiologic (18)F FSPG Uptake in Healthy Volunteers. *Radiology*, **2016**, 279, 898-905	20.5	11
96	Pilot Comparison of Ga-RM2 PET and Ga-PSMA-11 PET in Patients with Biochemically Recurrent Prostate Cancer. *Journal of Nuclear Medicine*, **2016**, 57, 557-62	8.9	122
95	AshwaMAX and Withaferin A inhibits gliomas in cellular and murine orthotopic models. *Journal of Neuro-Oncology*, **2016**, 126, 253-64	4.8	24
94	Pilot prospective evaluation of (18)F-FPPRGD2 PET/CT in patients with cervical and ovarian cancer. *European Journal of Nuclear Medicine and Molecular Imaging*, **2016**, 43, 1047-55	8.8	17
93	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	3.7	40
92	Artificial MicroRNAs as Novel Secreted Reporters for Cell Monitoring in Living Subjects. *PLoS ONE*, **2016**, 11, e0159369	3.7	5
91	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	11.5	79
90	A Cystine Knot Peptide Targeting Integrin for Photoacoustic and Fluorescence Imaging of Tumors in Living Subjects. *Journal of Nuclear Medicine*, **2016**, 57, 1629-1634	8.9	18
89	A Clinical Wide-Field Fluorescence Endoscopic Device for Molecular Imaging Demonstrating Cathepsin Protease Activity in Colon Cancer. *Molecular Imaging and Biology*, **2016**, 18, 820-829	3.8	17

88	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, 3068-73	11.5	32
87	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, 3896-905	12.9	42
86	64Cu-Labeled Divalent Cystine Knot Peptide for Imaging Carotid Atherosclerotic Plaques. *Journal of Nuclear Medicine*, **2015**, 56, 939-44	8.9	30
85	Synthesis of [□F]-labelled maltose derivatives as PET tracers for imaging bacterial infection. *Molecular Imaging and Biology*, **2015**, 17, 168-76	3.8	20
84	Semiquantitative Analysis of the Biodistribution of the Combined □F-NaF and □F-FDG Administration for PET/CT Imaging. *Journal of Nuclear Medicine*, **2015**, 56, 688-94	8.9	14
83	Simultaneous whole-body time-of-flight 18F-FDG PET/MRI: a pilot study comparing SUVmax with PET/CT and assessment of MR image quality. *Clinical Nuclear Medicine*, **2015**, 40, 1-8	1.7	59
82	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, 191-8	20.5	14
81	PET imaging of tumor glycolysis downstream of hexokinase through noninvasive measurement of pyruvate kinase M2. *Science Translational Medicine*, **2015**, 7, 310ra169	17.5	35
80	Biodistribution of the □F-FPPRGD□PET radiopharmaceutical in cancer patients: an atlas of SUV measurements. *European Journal of Nuclear Medicine and Molecular Imaging*, **2015**, 42, 1850-8	8.8	34
79	Novel Radiotracer for ImmunoPET Imaging of PD-1 Checkpoint Expression on Tumor Infiltrating Lymphocytes. *Bioconjugate Chemistry*, **2015**, 26, 2062-9	6.3	109
78	Imaging patients with breast and prostate cancers using combined 18F NaF/18F FDG and TOF simultaneous PET/ MRI. *EJNMMI Physics*, **2015**, 2, A65	4.4	2
77	Glioblastoma Multiforme Recurrence: An Exploratory Study of (18)F FPPRGD2 PET/CT. *Radiology*, **2015**, 277, 497-506	20.5	39
76	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. *Journal of Nuclear Medicine*, **2015**, 56, 1862-8	8.9	78
75	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	11.5	205
74	Isolation and Characterization of a Monobody with a Fibronectin Domain III Scaffold That Specifically Binds EphA2. *PLoS ONE*, **2015**, 10, e0132976	3.7	18
73	A Magnetic Bead-Based Sensor for the Quantification of Multiple Prostate Cancer Biomarkers. *PLoS ONE*, **2015**, 10, e0139484	3.7	10
72	A real-time clinical endoscopic system for intraluminal, multiplexed imaging of surface-enhanced Raman scattering nanoparticles. *PLoS ONE*, **2015**, 10, e0123185	3.7	79
71	Validation of 64Cu-DOTA-rituximab injection preparation under good manufacturing practices: a PET tracer for imaging of B-cell non-Hodgkin lymphoma. *Molecular Imaging*, **2015**, 14,	3.7	4

70	Selective uptake of single-walled carbon nanotubes by circulating monocytes for enhanced tumour delivery. *Nature Nanotechnology*, **2014**, 9, 481-7	28.7	188
69	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. *Nature Nanotechnology*, **2014**, 9, 233-9	28.7	898
68	A high-affinity, high-stability photoacoustic agent for imaging gastrin-releasing peptide receptor in prostate cancer. *Clinical Cancer Research*, **2014**, 20, 3721-9	12.9	32
67	Imaging circulating tumor cells in freely moving awake small animals using a miniaturized intravital microscope. *PLoS ONE*, **2014**, 9, e86759	3.7	28
66	Circulating tumor microemboli diagnostics for patients with non-small-cell lung cancer. *Journal of Thoracic Oncology*, **2014**, 9, 1111-9	8.9	53
65	Endoscopic molecular imaging of human bladder cancer using a CD47 antibody. *Science Translational Medicine*, **2014**, 6, 260ra148	17.5	92
64	Detection and quantitation of circulating tumor cell dynamics by bioluminescence imaging in an orthotopic mammary carcinoma model. *PLoS ONE*, **2014**, 9, e105079	3.7	11
63	Investigation of 6-[□]-fluoromaltose as a novel PET tracer for imaging bacterial infection. *PLoS ONE*, **2014**, 9, e107951	3.7	66
62	Activatable oligomerizable imaging agents for photoacoustic imaging of furin-like activity in living subjects. *Journal of the American Chemical Society*, **2013**, 135, 11015-22	16.4	168
61	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	2.3	5
60	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, 096008	3.5	51
59	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, 12408-13	11.5	133
58	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	3.7	16
57	Deep tissue photoacoustic imaging using a miniaturized 2-D capacitive micromachined ultrasonic transducer array. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 1199-204	5	67
56	Positron emission tomography of 64Cu-DOTA-Rituximab in a transgenic mouse model expressing human CD20 for clinical translation to image NHL. *Molecular Imaging and Biology*, **2012**, 14, 608-16	3.8	24
55	Gold nanorods for ovarian cancer detection with photoacoustic imaging and resection guidance via Raman imaging in living mice. *ACS Nano*, **2012**, 6, 10366-77	16.7	306
54	New positron emission tomography (PET) radioligand for imaging □1 receptors in living subjects. *Journal of Medicinal Chemistry*, **2012**, 55, 8272-8282	8.3	59
53	A molecular imaging primer: modalities, imaging agents, and applications. *Physiological Reviews*, **2012**, 92, 897-965	47.9	713

52	Fluorescent magnetic nanoparticles for magnetically enhanced cancer imaging and targeting in living subjects. *ACS Nano*, **2012**, 6, 6862-9	16.7	70
51	A brain tumor molecular imaging strategy using a new triple-modality MRI-photoacoustic-Raman nanoparticle. *Nature Medicine*, **2012**, 18, 829-34	50.5	847
50	Improving image quality by accounting for changes in water temperature during a photoacoustic tomography scan. *PLoS ONE*, **2012**, 7, e45337	3.7	18
49	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. *Clinical Cancer Research*, **2012**, 18, 5427-37	12.9	95
48	Proof-of-concept study of monitoring cancer drug therapy with cerenkov luminescence imaging. *Journal of Nuclear Medicine*, **2012**, 53, 312-317	8.9	60
47	A photonic crystal cavity-optical fiber tip nanoparticle sensor for biomedical applications. *Applied Physics Letters*, **2012**, 100, 213702	3.4	23
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