Sanjiv Sam Gambhir

List of Publications by Year
in descending order

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	Molecular imaging of cancer with positron emission tomography. Nature Reviews Cancer, 2002, 2, 683-693.	12.8	1,481
2	Carbon nanotubes as photoacoustic molecular imaging agents in living mice. Nature Nanotechnology, 2008, 3, 557-562.	15.6	1,215
3	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. Nature Nanotechnology, 2014, 9, 233-239.	15.6	1,057
4	A brain tumor molecular imaging strategy using a new triple-modality MRI-photoacoustic-Raman nanoparticle. Nature Medicine, 2012, 18, 829-834.	15.2	1,029
5	Molecular imaging in drug development. Nature Reviews Drug Discovery, 2008, 7, 591-607.	21.5	1,000
6	A Molecular Imaging Primer: Modalities, Imaging Agents, and Applications. Physiological Reviews, 2012, 92, 897-965.	13.1	928
7	Nanomaterials for In Vivo Imaging. Chemical Reviews, 2017, 117, 901-986.	23.0	879
8	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
9	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.	11.6	622
10	Molecular Imaging with Theranostic Nanoparticles. Accounts of Chemical Research, 2011, 44, 1050-1060.	7.6	464
11	Noninvasive cell-tracking methods. Nature Reviews Clinical Oncology, 2011, 8, 677-688.	12.5	439
12	Integrating genomic features for non-invasive early lung cancer detection. Nature, 2020, 580, 245-251.	13.7	379
13	Photoacoustic clinical imaging. Photoacoustics, 2019, 14, 77-98.	4.4	368
14	Matrix-insensitive protein assays push the limits of biosensors in medicine. Nature Medicine, 2009, 15, 1327-1332.	15.2	359
15	Gold Nanorods for Ovarian Cancer Detection with Photoacoustic Imaging and Resection Guidance via Raman Imaging in Living Mice. ACS Nano, 2012, 6, 10366-10377.	7.3	357
16	Miniature gold nanorods for photoacoustic molecular imaging in the second near-infrared optical window. Nature Nanotechnology, 2019, 14, 465-472.	15.6	349
17	Noninvasive detection of therapeutic cytolytic T cells with 18Fâ€“FHBG PET in a patient with glioma. Nature Clinical Practice Oncology, 2009, 6, 53-58.	4.3	345
18	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

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19	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
20	Early detection of cancer. Science, 2022, 375, eaay9040.	6.0	291
21	Eradication of spontaneous malignancy by local immunotherapy. Science Translational Medicine, 2018, 10, .	5.8	289
22	The Exosome Total Isolation Chip. ACS Nano, 2017, 11, 10712-10723.	7.3	275
23	Reporter gene imaging of targeted T cell immunotherapy in recurrent glioma. Science Translational Medicine, 2017, 9, .	5.8	263
24	Towards clinically translatable in vivo nanodiagnostics. Nature Reviews Materials, 2017, 2, .	23.3	255
25	A Novel High-Sensitivity Rapid-Acquisition Single-Photon Cardiac Imaging Camera. Journal of Nuclear Medicine, 2009, 50, 635-643.	2.8	241
26	Quantification of target gene expression by imaging reporter gene expression in living animals. Nature Medicine, 2000, 6, 933-937.	15.2	219
27	Selective uptake of single-walled carbon nanotubes by circulating monocytes for enhanced tumour delivery. Nature Nanotechnology, 2014, 9, 481-487.	15.6	216
28	Mathematical Model Identifies Blood Biomarkerâ€“Based Early Cancer Detection Strategies and Limitations. Science Translational Medicine, 2011, 3, 109ra116.	5.8	202
29	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
30	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
31	Clinically Approved Nanoparticle Imaging Agents. Journal of Nuclear Medicine, 2016, 57, 1833-1837.	2.8	181
32	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.	7.3	170
33	Mitochondrial copper depletion suppresses triple-negative breast cancer in mice. Nature Biotechnology, 2021, 39, 357-367.	9.4	163
34	Carbon-coated FeCo nanoparticles as sensitive magnetic-particle-imaging tracers with photothermal and magnetothermal properties. Nature Biomedical Engineering, 2020, 4, 325-334.	11.6	160
35	Pilot Comparison of ⁶⁸Ga-RM2 PET and ⁶⁸Ga-PSMA-11 PET in Patients with Biochemically Recurrent Prostate Cancer. Journal of Nuclear Medicine, 2016, 57, 557-562.	2.8	155
36	Development and MPI tracking of novel hypoxia-targeted theranostic exosomes. Biomaterials, 2018, 177, 139-148.	5.7	155

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37	Molecular Imaging: The Vision and Opportunity for Radiology in the Future. Radiology, 2007, 244, 39-47.	3.6	151
38	The Fate and Toxicity of Raman-Active Silica-Gold Nanoparticles in Mice. Science Translational Medicine, 2011, 3, 79ra33.	5.8	139
39	Novel Radiotracer for ImmunoPET Imaging of PD-1 Checkpoint Expression on Tumor Infiltrating Lymphocytes. Bioconjugate Chemistry, 2015, 26, 2062-2069.	1.8	139
40	Toward achieving precision health. Science Translational Medicine, 2018, 10, .	5.8	134
41	Pilot Pharmacokinetic and Dosimetric Studies of¹⁸F-FPPRGD2: A PET Radiopharmaceutical Agent for Imaging Î±_vÎ²₃Integrin Levels. Radiology, 2011, 260, 182-191.	3.6	131
42	Endoscopic molecular imaging of human bladder cancer using a CD47 antibody. Science Translational Medicine, 2014, 6, 260ra148.	5.8	124
43	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. Nature Protocols, 2006, 1, 3069-3074.	5.5	118
44	Exploratory Clinical Trial of (4S)-4-(3-[18F]fluoropropyl)-<scp>l</scp>-glutamate for Imaging xCâ^' Transporter Using Positron Emission Tomography in Patients with Nonâ€“Small Cell Lung or Breast Cancer. Clinical Cancer Research, 2012, 18, 5427-5437.	3.2	114
45	Imaging activated T cells predicts response to cancer vaccines. Journal of Clinical Investigation, 2018, 128, 2569-2580.	3.9	114
46	A mountable toilet system for personalized health monitoring via the analysis of excreta. Nature Biomedical Engineering, 2020, 4, 624-635.	11.6	112
47	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
48	Tomographic magnetic particle imaging of cancer targeted nanoparticles. Nanoscale, 2017, 9, 18723-18730.	2.8	107
49	A Real-Time Clinical Endoscopic System for Intraluminal, Multiplexed Imaging of Surface-Enhanced Raman Scattering Nanoparticles. PLoS ONE, 2015, 10, e0123185.	1.1	106
50	A mathematical model of ctDNA shedding predicts tumor detection size. Science Advances, 2020, 6, .	4.7	105
51	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
52	Practical Immuno-PET Radiotracer Design Considerations for Human Immune Checkpoint Imaging. Journal of Nuclear Medicine, 2017, 58, 538-546.	2.8	102
53	Engineered immune cells as highly sensitive cancer diagnostics. Nature Biotechnology, 2019, 37, 531-539.	9.4	101
54	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.	0.4	98

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55	Prospective Comparison of ^{99m}Tc-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, 1862-1868.	2.8	95
56	Comparison of [18 F]FHBG 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
57	Imaging approaches to optimize molecular therapies. Science Translational Medicine, 2016, 8, 355ps16.	5.8	93
58	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
59	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.	1.3	91
60	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
61	Simultaneous transrectal ultrasound and photoacoustic human prostate imaging. Science Translational Medicine, 2019, 11, .	5.8	87
62	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.	3.3	85
63	Investigation of 6-[18F]-Fluoromaltose as a Novel PET Tracer for Imaging Bacterial Infection. PLoS ONE, 2014, 9, e107951.	1.1	85
64	New Positron Emission Tomography (PET) Radioligand for Imaging Ïƒ-1 Receptors in Living Subjects. Journal of Medicinal Chemistry, 2012, 55, 8272-8282.	2.9	81
65	Surface-Enhanced Raman Scattering Nanoparticles for Multiplexed Imaging of Bladder Cancer Tissue Permeability and Molecular Phenotype. ACS Nano, 2018, 12, 9669-9679.	7.3	81
66	Fluorescent Magnetic Nanoparticles for Magnetically Enhanced Cancer Imaging and Targeting in Living Subjects. ACS Nano, 2012, 6, 6862-6869.	7.3	79
67	Specific Imaging of Bacterial Infection Using 6â€³-¹⁸F-Fluoromaltotriose: A Second-Generation PET Tracer Targeting the Maltodextrin Transporter in Bacteria. Journal of Nuclear Medicine, 2017, 58, 1679-1684.	2.8	79
68	Maltotriose-based probes for fluorescence and photoacoustic imaging of bacterial infections. Nature Communications, 2020, 11, 1250.	5.8	78
69	Deep Tissue Photoacoustic Imaging Using a Miniaturized 2-D Capacitive Micromachined Ultrasonic Transducer Array. IEEE Transactions on Biomedical Engineering, 2012, 59, 1199-1204.	2.5	73
70	ICOS Is an Indicator of T-cellâ€“Mediated Response to Cancer Immunotherapy. Cancer Research, 2020, 80, 3023-3032.	0.4	72
71	Multiparametric Photoacoustic Analysis of Human Thyroid Cancers In Vivo. Cancer Research, 2021, 81, 4849-4860.	0.4	72
72	Simultaneous Whole-Body Time-of-Flight 18F-FDG PET/MRI. Clinical Nuclear Medicine, 2015, 40, 1-8.	0.7	70

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73	Proof-of-Concept Study of Monitoring Cancer Drug Therapy with Cerenkov Luminescence Imaging. Journal of Nuclear Medicine, 2012, 53, 312-317.	2.8	68
74	The Immunoimaging Toolbox. Journal of Nuclear Medicine, 2018, 59, 1174-1182.	2.8	68
75	A PET imaging approach for determining EGFR mutation status for improved lung cancer patient management. Science Translational Medicine, 2018, 10, .	5.8	66
76	Gene therapy imaging in patients for oncological applications. European Journal of Nuclear Medicine and Molecular Imaging, 2005, 32, S384-S403.	3.3	61
77	Circulating Tumor Microemboli Diagnostics for Patients with Nonâ€“Small-Cell Lung Cancer. Journal of Thoracic Oncology, 2014, 9, 1111-1119.	0.5	61
78	Emerging Intraoperative Imaging Modalities to Improve Surgical Precision. Molecular Imaging and Biology, 2018, 20, 705-715.	1.3	61
79	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.	3.3	61
80	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. Molecular Imaging and Biology, 2005, 7, 296-303.	1.3	59
81	Evaluation of a ⁶⁴Cu-Labeled Cystine-Knot Peptide Based on Agouti-Related Protein for PET of Tumors Expressing Î±_vÎ²₃ Integrin. Journal of Nuclear Medicine, 2010, 51, 251-258.	2.8	59
82	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
83	Plasmonic and Electrostatic Interactions Enable Uniformly Enhanced Liquid Bacterial Surface-Enhanced Raman Scattering (SERS). Nano Letters, 2020, 20, 7655-7661.	4.5	56
84	PET imaging of tumor glycolysis downstream of hexokinase through noninvasive measurement of pyruvate kinase M2. Science Translational Medicine, 2015, 7, 310ra169.	5.8	54
85	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
86	Molecular Imaging of Chimeric Antigen Receptor T Cells by ICOS-ImmunoPET. Clinical Cancer Research, 2021, 27, 1058-1068.	3.2	53
87	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
88	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
89	Glioblastoma Multiforme Recurrence: An Exploratory Study of18F FPPRGD2PET/CT. Radiology, 2015, 277, 497-506.	3.6	49
90	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

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91	Initial experience with a SiPM-based PET/CT scanner: influence of acquisition time on image quality. EJNMMI Physics, 2018, 5, 9.	1.3	47
92	Molecular Imaging of PET Reporter Gene Expression. Handbook of Experimental Pharmacology, 2008, , 277-303.	0.9	46
93	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
94	Whole-body tracking of single cells via positron emission tomography. Nature Biomedical Engineering, 2020, 4, 835-844.	11.6	46
95	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
96	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
97	18F-FDG silicon photomultiplier PET/CT: A pilot study comparing semi-quantitative measurements with standard PET/CT. PLoS ONE, 2017, 12, e0178936.	1.1	43
98	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
99	Assessment of Tumor Redox Status through (S)-4-(3-[18F]fluoropropyl)-<scp>L</scp>-Glutamic Acid PET Imaging of System xcâ˜ Activity. Cancer Research, 2022, 79, 853-863.	0.4	42
100	Reduction TriggeredIn SituPolymerization in Living Mice. Journal of the American Chemical Society, 2020, 142, 15575-15584.	6.6	42
101	Nanomedicine for Spontaneous Brain Tumors: A Companion Clinical Trial. ACS Nano, 2019, 13, 2858-2869.	7.3	41
102	Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scatteringâ€“Nanoparticle Endoscopy. ACS Nano, 2019, 13, 1354-1364.	7.3	40
103	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
104	Continuous health monitoring: An opportunity for precision health. Science Translational Medicine, 2021, 13, .	5.8	39
105	The Project Baseline Health Study: a step towards a broader mission to map human health. Npj Digital Medicine, 2020, 3, 84.	5.7	38
106	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, .	3.3	38
107	⁶⁴Cu-Labeled Divalent Cystine Knot Peptide for Imaging Carotid Atherosclerotic Plaques. Journal of Nuclear Medicine, 2015, 56, 939-944.	2.8	36
108	Imaging B Cells in a Mouse Model of Multiple Sclerosis Using ⁶⁴Cu-Rituximab PET. Journal of Nuclear Medicine, 2017, 58, 1845-1851.	2.8	35

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109	A Novel Theranostic Strategy for MMP-14â€“Expressing Glioblastomas Impacts Survival. Molecular Cancer Therapeutics, 2017, 16, 1909-1921.	1.9	35
110	AshwaMAX and Withaferin A inhibits gliomas in cellular and murine orthotopic models. Journal of Neuro-Oncology, 2016, 126, 253-264.	1.4	34
111	Biodistribution and Radiation Dosimetry of ¹⁸F-FTC-146 in Humans. Journal of Nuclear Medicine, 2017, 58, 2004-2009.	2.8	34
112	Imaging Circulating Tumor Cells in Freely Moving Awake Small Animals Using a Miniaturized Intravital Microscope. PLoS ONE, 2014, 9, e86759.	1.1	33
113	Introduction: FIGURE 1.. Journal of Nuclear Medicine, 2008, 49, 1S-4S.	2.8	32
114	A Model-Based Personalized Cancer Screening Strategy for Detecting Early-Stage Tumors Using Blood-Borne Biomarkers. Cancer Research, 2017, 77, 2570-2584.	0.4	32
115	Synthesis of [18F]-labelled Maltose Derivatives as PET Tracers for Imaging Bacterial Infection. Molecular Imaging and Biology, 2015, 17, 168-176.	1.3	31
116	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.	3.3	31
117	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, 608-616.	1.3	30
118	Deactivated CRISPR Associated Protein 9 for Minor-Allele Enrichment in Cell-Free DNA. Clinical Chemistry, 2018, 64, 307-316.	1.5	30
119	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.	3.2	30
120	A photonic crystal cavity-optical fiber tip nanoparticle sensor for biomedical applications. Applied Physics Letters, 2012, 100, .	1.5	29
121	Synthesis of (4-[18F]fluorophenyl)triphenylphosphonium as a potential imaging agent for mitochondrial dysfunction. Journal of Labelled Compounds and Radiopharmaceuticals, 2005, 48, 131-137.	0.5	28
122	Biodegradable Fluorescent Nanoparticles for Endoscopic Detection of Colorectal Carcinogenesis. Advanced Functional Materials, 2019, 29, 1904992.	7.8	28
123	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.	1.3	27
124	SP94-Targeted Triblock Copolymer Nanoparticle Delivers Thymidine Kinaseâ€“p53â€“Nitroreductase Triple Therapeutic Gene and Restores Anticancer Function against Hepatocellular Carcinoma in Vivo. ACS Applied Materials & Interfaces, 2020, 12, 11307-11319.	4.0	27
125	Superiorized Photo-Acoustic Non-NEgative Reconstruction (SPANNER) for Clinical Photoacoustic Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 1888-1897.	5.4	26
126	Improving Image Quality by Accounting for Changes in Water Temperature during a Photoacoustic Tomography Scan. PLoS ONE, 2012, 7, e45337.	1.1	25

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127	Pilot prospective evaluation of 18F-FPPRGD2 PET/CT in patients with cervical and ovarian cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 1047-1055.	3.3	25
128	Synergistic inhibition of glioma cell proliferation by Withaferin A and tumor treating fields. Journal of Neuro-Oncology, 2017, 134, 259-268.	1.4	25
129	PET Imaging of TIGIT Expression on Tumor-Infiltrating Lymphocytes. Clinical Cancer Research, 2021, 27, 1932-1940.	3.2	25
130	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.	3.6	24
131	PET Reporter Gene Imaging and Ganciclovir-Mediated Ablation of Chimeric Antigen Receptor T Cells in Solid Tumors. Cancer Research, 2020, 80, 4731-4740.	0.4	24
132	Ultraselective Carbon Nanotubes for Photoacoustic Imaging of Inflamed Atherosclerotic Plaques. Advanced Functional Materials, 2021, 31, 2101005.	7.8	24
133	A Cystine Knot Peptide Targeting Integrin Î±_vÎ²₆ for Photoacoustic and Fluorescence Imaging of Tumors in Living Subjects. Journal of Nuclear Medicine, 2016, 57, 1629-1634.	2.8	22
134	[18F]FSPG-PET reveals increased cystine/glutamate antiporter (xc-) activity in a mouse model of multiple sclerosis. Journal of Neuroinflammation, 2018, 15, 55.	3.1	21
135	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.	0.4	21
136	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
137	Isolation and Characterization of a Monobody with a Fibronectin Domain III Scaffold That Specifically Binds EphA2. PLoS ONE, 2015, 10, e0132976.	1.1	20
138	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
139	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.	6.6	19
140	Noninvasive and Highly Multiplexed Five-Color Tumor Imaging of Multicore Near-Infrared Resonant Surface-Enhanced Raman Nanoparticles In Vivo. ACS Nano, 2021, 15, 19956-19969.	7.3	19
141	Improved detection of prostate cancer using a magneto-nanosensor assay for serum circulating autoantibodies. PLoS ONE, 2019, 14, e0221051.	1.1	18
142	Molecular Imaging of Biological Gene Delivery Vehicles for Targeted Cancer Therapy: Beyond Viral Vectors. Nuclear Medicine and Molecular Imaging, 2010, 44, 15-24.	0.6	17
143	Development of [18F]DASA-23 for Imaging Tumor Glycolysis Through Noninvasive Measurement of Pyruvate Kinase M2. Molecular Imaging and Biology, 2017, 19, 665-672.	1.3	16
144	A Magnetic Bead-Based Sensor for the Quantification of Multiple Prostate Cancer Biomarkers. PLoS ONE, 2015, 10, e0139484.	1.1	15

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145	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
146	Characterization of Physiologic¹⁸F FSPG Uptake in Healthy Volunteers. Radiology, 2016, 279, 898-905.	3.6	15
147	Clinical Evaluation of (4S)-4-(3-[18F]Fluoropropyl)-L-glutamate (18F-FSPG) for PET/CT Imaging in Patients with Newly Diagnosed and Recurrent Prostate Cancer. Clinical Cancer Research, 2020, 26, 5380-5387.	3.2	15
148	Ultra-high-frequency radio-frequency acoustic molecular imaging with saline nanodroplets in living subjects. Nature Nanotechnology, 2021, 16, 717-724.	15.6	15
149	Multiparameter Longitudinal Imaging of Immune Cell Activity in Chimeric Antigen Receptor T Cell and Checkpoint Blockade Therapies. ACS Central Science, 2022, 8, 590-602.	5.3	15
150	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.	1.5	14
151	Alk5 inhibition increases delivery of macromolecular and protein-bound contrast agents to tumors. JCI Insight, 2016, 1, .	2.3	13
152	Longitudinal Monitoring of Antibody Responses against Tumor Cells Using Magneto-nanosensors with a Nanoliter of Blood. Nano Letters, 2017, 17, 6644-6652.	4.5	13
153	Evaluation of Glycolytic Response to Multiple Classes of Anti-glioblastoma Drugs by Noninvasive Measurement of Pyruvate Kinase M2 Using [18F]DASA-23. Molecular Imaging and Biology, 2020, 22, 124-133.	1.3	13
154	Tumor treating fields (TTFields) impairs aberrant glycolysis in glioblastoma as evaluated by [18F]DASA-23, a non-invasive probe of pyruvate kinase M2 (PKM2) expression. Neoplasia, 2021, 23, 58-67.	2.3	13
155	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
156	Tumor characterization by ultrasound-release of multiple protein and microRNA biomarkers, preclinical and clinical evidence. PLoS ONE, 2018, 13, e0194268.	1.1	12
157	The Utility of [18F]DASA-23 for Molecular Imaging of Prostate Cancer with Positron Emission Tomography. Molecular Imaging and Biology, 2018, 20, 1015-1024.	1.3	11
158	[18F]-SuPAR: A Radiofluorinated Probe for Noninvasive Imaging of DNA Damage-Dependent Poly(ADP-ribose) Polymerase Activity. Bioconjugate Chemistry, 2019, 30, 1331-1342.	1.8	11
159	A novel synthesis of 6â€²â€²â€²[¹⁸F]â€fluoromaltotriose as a PET tracer for imaging bacterial infection. Journal of Labelled Compounds and Radiopharmaceuticals, 2018, 61, 408-414.	0.5	10
160	The Characterization of 18F-hGTS13 for Molecular Imaging of xCâ˜ Transporter Activity with PET. Journal of Nuclear Medicine, 2019, 60, 1812-1817.	2.8	10
161	Human biodistribution and radiation dosimetry of [18F]DASA-23, a PET probe targeting pyruvate kinase M2. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2123-2130.	3.3	10
162	Return of individual research results: What do participants prefer and expect?. PLoS ONE, 2021, 16, e0254153.	1.1	10

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163	Whole-body PET Imaging of T-cell Response to Glioblastoma. Clinical Cancer Research, 2021, 27, 6445-6456.	3.2	10
164	Pilot-phase PET/CT study targeting integrin Î±vÎ²6 in pancreatic cancer patients using the cystine-knot peptideâ€“based 18F-FP-R01-MG-F2. European Journal of Nuclear Medicine and Molecular Imaging, 2021, , 1.	3.3	10
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