

Ophir Vermesh

List of Publications by Year in descending order

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Version: 2024-02-01

154
papers

10,741
citations

38660

50
h-index

34900

98
g-index

159
all docs

159
docs citations

159
times ranked

16515
citing authors

#	ARTICLE	IF	CITATIONS
1	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. <i>Nature Nanotechnology</i> , 2014, 9, 233-239.	15.6	1,057
2	Hysteresis Caused by Water Molecules in Carbon Nanotube Field-Effect Transistors. <i>Nano Letters</i> , 2003, 3, 193-198.	4.5	890
3	Integrated barcode chips for rapid, multiplexed analysis of proteins in microliter quantities of blood. <i>Nature Biotechnology</i> , 2008, 26, 1373-1378.	9.4	507
4	Photoacoustic clinical imaging. <i>Photoacoustics</i> , 2019, 14, 77-98.	4.4	368
5	Diketopyrrolopyrrole-Based Semiconducting Polymer Nanoparticles for In Vivo Photoacoustic Imaging. <i>Advanced Materials</i> , 2015, 27, 5184-5190.	11.1	305
6	Engineering high-affinity PD-1 variants for optimized immunotherapy and immuno-PET imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6506-14.	3.3	299
7	Early detection of cancer. <i>Science</i> , 2022, 375, eaay9040.	6.0	291
8	Eradication of spontaneous malignancy by local immunotherapy. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	289
9	Reporter gene imaging of targeted T cell immunotherapy in recurrent glioma. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	263
10	Towards clinically translatable in vivo nanodiagnostics. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	255
11	Preclinical Efficacy of the c-Met Inhibitor CE-355621 in a U87 MG Mouse Xenograft Model Evaluated by ¹⁸ F-FDG Small-Animal PET. <i>Journal of Nuclear Medicine</i> , 2008, 49, 129-134.	2.8	201
12	Theranostic Mesoporous Silica Nanoparticles Biodegrade after Pro-Survival Drug Delivery and Ultrasound/Magnetic Resonance Imaging of Stem Cells. <i>Theranostics</i> , 2015, 5, 631-642.	4.6	172
13	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
14	Intranasal delivery of targeted polyfunctional gold-iron oxide nanoparticles loaded with therapeutic microRNAs for combined theranostic multimodality imaging and presensitization of glioblastoma to temozolomide. <i>Biomaterials</i> , 2019, 218, 119342.	5.7	159
15	Androgen Receptor Splice Variants Dimerize to Transactivate Target Genes. <i>Cancer Research</i> , 2015, 75, 3663-3671.	0.4	158
16	Targeted Contrast-Enhanced Ultrasound Imaging of Tumor Angiogenesis with Contrast Microbubbles Conjugated to Integrin-Binding Knottin Peptides. <i>Journal of Nuclear Medicine</i> , 2010, 51, 433-440.	2.8	156
17	Radiotheranostics: a roadmap for future development. <i>Lancet Oncology</i> , The, 2020, 21, e146-e156.	5.1	151
18	Targeted superparamagnetic iron oxide nanoparticles for early detection of cancer: Possibilities and challenges. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 287-307.	1.7	145

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19	Novel Radiotracer for ImmunoPET Imaging of PD-1 Checkpoint Expression on Tumor Infiltrating Lymphocytes. <i>Bioconjugate Chemistry</i> , 2015, 26, 2062-2069.	1.8	139
20	Toward achieving precision health. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	134
21	Intraoperative Pancreatic Cancer Detection using Tumor-Specific Multimodality Molecular Imaging. <i>Annals of Surgical Oncology</i> , 2018, 25, 1880-1888.	0.7	127
22	Imaging activated T cells predicts response to cancer vaccines. <i>Journal of Clinical Investigation</i> , 2018, 128, 2569-2580.	3.9	114
23	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
24	A Real-Time Clinical Endoscopic System for Intraluminal, Multiplexed Imaging of Surface-Enhanced Raman Scattering Nanoparticles. <i>PLoS ONE</i> , 2015, 10, e0123185.	1.1	106
25	Engineered immune cells as highly sensitive cancer diagnostics. <i>Nature Biotechnology</i> , 2019, 37, 531-539.	9.4	101
26	Pharmacokinetically Stabilized Cystine Knot Peptides That Bind Alpha-v-Beta-6 Integrin with Single-Digit Nanomolar Affinities for Detection of Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2012, 18, 839-849.	3.2	95
27	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
28	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
29	Simultaneous transrectal ultrasound and photoacoustic human prostate imaging. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	87
30	A self-powered, one-step chip for rapid, quantitative and multiplexed detection of proteins from pinpricks of whole blood. <i>Lab on A Chip</i> , 2010, 10, 3157.	3.1	85
31	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
32	New Positron Emission Tomography (PET) Radioligand for Imaging β -1 Receptors in Living Subjects. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 8272-8282.	2.9	81
33	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
34	A tunable silk- α alginate hydrogel scaffold for stem cell culture and transplantation. <i>Biomaterials</i> , 2014, 35, 3736-3743.	5.7	80
35	Tumor treating fields increases membrane permeability in glioblastoma cells. <i>Cell Death Discovery</i> , 2018, 4, 113.	2.0	79
36	Regulatory Aspects of Optical Methods and Exogenous Targets for Cancer Detection. <i>Cancer Research</i> , 2017, 77, 2197-2206.	0.4	74

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37	First Experience with Clinical-Grade [18F]FPP(RGD)2: An Automated Multi-step Radiosynthesis for Clinical PET Studies. <i>Molecular Imaging and Biology</i> , 2012, 14, 88-95.	1.3	73
38	Evaluation of integrin $\alpha_6\beta_4$ cystine knot PET tracers to detect cancer and idiopathic pulmonary fibrosis. <i>Nature Communications</i> , 2019, 10, 4673.	5.8	73
39	Photoacoustic Tomography Detects Early Vessel Regression and Normalization During Ovarian Tumor Response to the Antiangiogenic Therapy Trebananib. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1942-1947.	2.8	72
40	ICOS Is an Indicator of T-cell-Mediated Response to Cancer Immunotherapy. <i>Cancer Research</i> , 2020, 80, 3023-3032.	0.4	72
41	Multiparametric Photoacoustic Analysis of Human Thyroid Cancers <i>In Vivo</i> . <i>Cancer Research</i> , 2021, 81, 4849-4860.	0.4	72
42	Prospective Evaluation of ^{68}Ga -RM2 PET/MRI in Patients with Biochemical Recurrence of Prostate Cancer and Negative Findings on Conventional Imaging. <i>Journal of Nuclear Medicine</i> , 2018, 59, 803-808.	2.8	70
43	Self-powered microfluidic chips for multiplexed protein assays from whole blood. <i>Lab on A Chip</i> , 2009, 9, 2016.	3.1	69
44	[^{18}F]GE-180 PET Detects Reduced Microglia Activation After LM11A-31 Therapy in a Mouse Model of Alzheimer's Disease. <i>Theranostics</i> , 2017, 7, 1422-1436.	4.6	64
45	Optical coherence contrast imaging using gold nanorods in living mice eyes. <i>Clinical and Experimental Ophthalmology</i> , 2015, 43, 358-366.	1.3	60
46	Molecular imaging agents for ultrasound. <i>Current Opinion in Chemical Biology</i> , 2018, 45, 113-120.	2.8	60
47	High-Density, Multiplexed Patterning of Cells at Single-Cell Resolution for Tissue Engineering and Other Applications. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7378-7380.	7.2	57
48	Multitarget, quantitative nanoplasmonic electrical field-enhanced resonating device (NE Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (States of America, 2015, 112, E4354-63.	3.3	56
49	Sol-Gel Synthesis and Electrospinning of Biodegradable (P_{2}O_{5}) $_{55}$ -(CaO) $_{30}$ -(Na_{2}O) $_{15}$ Class Nanospheres as a Transient Contrast Agent for Ultrasound Stem Cell Imaging. <i>ACS Nano</i> , 2015, 9, 1868-1877.	7.3	55
50	The Synthesis of 18F-FDS and Its Potential Application in Molecular Imaging. <i>Molecular Imaging and Biology</i> , 2008, 10, 92-98.	1.3	53
51	Use of ^{64}Cu -labeled Fibronectin Domain with EGFR-Overexpressing Tumor Xenograft: Molecular Imaging. <i>Radiology</i> , 2012, 263, 179-188.	3.6	53
52	Molecular Imaging of Chimeric Antigen Receptor T Cells by ICOS-ImmunoPET. <i>Clinical Cancer Research</i> , 2021, 27, 1058-1068.	3.2	53
53	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
54	Bioluminescent Imaging of Melanoma in Live Mice. <i>Journal of Investigative Dermatology</i> , 2005, 125, 159-165.	0.3	48

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55	Cellulose nanoparticles are a biodegradable photoacoustic contrast agent for use in living mice. <i>Photoacoustics</i> , 2014, 2, 119-127.	4.4	48
56	A Systematic Comparison of ¹⁸ F-C-SNAT to Established Radiotracer Imaging Agents for the Detection of Tumor Response to Treatment. <i>Clinical Cancer Research</i> , 2015, 21, 3896-3905.	3.2	48
57	Ultrasound/microbubble-mediated targeted delivery of anticancer microRNA-loaded nanoparticles to deep tissues in pigs. <i>Journal of Controlled Release</i> , 2019, 309, 1-10.	4.8	48
58	PET Imaging of Translocator Protein (18 kDa) in a Mouse Model of Alzheimer's Disease Using ¹⁸ F-Fluoro-(2,5-Dimethoxybenzyl)-2-(2-Phenoxyphenyl)Acetamide. <i>Journal of Nuclear Medicine</i> , 2015, 56, 311-316.	2.8	47
59	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, 3068-3073.	3.3	46
60	Visualizing Nerve Injury in a Neuropathic Pain Model with [¹⁸ F]FTC-146 PET/MRI. <i>Theranostics</i> , 2017, 7, 2794-2805.	4.6	46
61	Intravital imaging reveals synergistic effect of CAR T-cells and radiation therapy in a preclinical immunocompetent glioblastoma model. <i>Oncolmmunology</i> , 2020, 9, 1757360.	2.1	46
62	Striatal dopamine deficits predict reductions in striatal functional connectivity in major depression: a concurrent ¹¹ C-raclopride positron emission tomography and functional magnetic resonance imaging investigation. <i>Translational Psychiatry</i> , 2018, 8, 264.	2.4	44
63	Assessment of Tumor Redox Status through ¹⁸ F-(3-[¹⁸ F]fluoropropyl)-L-Glutamic Acid PET Imaging of System xc ⁻ Activity. <i>Cancer Research</i> , 2022, 79, 853-863.	0.4	42
64	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
65	Dosimetry Prediction for Clinical Translation of ⁶⁴ Cu-Pembrolizumab ImmunoPET Targeting Human PD-1 Expression. <i>Scientific Reports</i> , 2018, 8, 633.	1.6	41
66	Nanomedicine for Spontaneous Brain Tumors: A Companion Clinical Trial. <i>ACS Nano</i> , 2019, 13, 2858-2869.	7.3	41
67	Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scattering Nanoparticle Endoscopy. <i>ACS Nano</i> , 2019, 13, 1354-1364.	7.3	40
68	Cerenkov Luminescence Endoscopy: Improved Molecular Sensitivity with ¹²⁵ I-Emitting Radiotracers. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1905-1909.	2.8	39
69	Imaging of hepatocellular carcinoma patient-derived xenografts using ⁸⁹ Zr-labeled anti-glypican-3 monoclonal antibody. <i>Biomaterials</i> , 2014, 35, 6964-6971.	5.7	39
70	A High-Affinity, High-Stability Photoacoustic Agent for Imaging Gastrin-Releasing Peptide Receptor in Prostate Cancer. <i>Clinical Cancer Research</i> , 2014, 20, 3721-3729.	3.2	39
71	Continuous health monitoring: An opportunity for precision health. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	39
72	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

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73	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
74	Viral Delivery of CAR Targets to Solid Tumors Enables Effective Cell Therapy. Molecular Therapy - Oncolytics, 2020, 17, 232-240.	2.0	37
75	Imaging B Cells in a Mouse Model of Multiple Sclerosis Using ^{64}Cu -Rituximab PET. Journal of Nuclear Medicine, 2017, 58, 1845-1851.	2.8	35
76	Biodistribution and Radiation Dosimetry of ^{18}F -FTC-146 in Humans. Journal of Nuclear Medicine, 2017, 58, 2004-2009.	2.8	34
77	Development and Preclinical Validation of a Cysteine Knottin Peptide Targeting Integrin $\alpha_5\beta_1$ for Near-infrared Fluorescent-guided Surgery in Pancreatic Cancer. Clinical Cancer Research, 2018, 24, 1667-1676.	3.2	34
78	Thy1-Targeted Microbubbles for Ultrasound Molecular Imaging of Pancreatic Ductal Adenocarcinoma. Clinical Cancer Research, 2018, 24, 1574-1585.	3.2	32
79	^{18}F -FPRGD2 PET/CT Imaging of Integrin $\alpha_v\beta_3$ in Renal Carcinomas: Correlation with Histopathology. Journal of Nuclear Medicine, 2015, 56, 361-364.	2.8	31
80	Deactivated CRISPR Associated Protein 9 for Minor-Allele Enrichment in Cell-Free DNA. Clinical Chemistry, 2018, 64, 307-316.	1.5	30
81	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
82	Comparison of Deconvolution Filters for Photoacoustic Tomography. PLoS ONE, 2016, 11, e0152597.	1.1	30
83	Reply to: The diagnostic accuracy of ^{18}F -FDG PET in cutaneous malignant melanoma. European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 1436-1437.	3.3	29
84	Biodegradable Fluorescent Nanoparticles for Endoscopic Detection of Colorectal Carcinogenesis. Advanced Functional Materials, 2019, 29, 1904992.	7.8	28
85	Detection of visually occult metastatic lymph nodes using molecularly targeted fluorescent imaging during surgical resection of pancreatic cancer. Hpb, 2019, 21, 883-890.	0.1	28
86	A correlative optical microscopy and scanning electron microscopy approach to locating nanoparticles in brain tumors. Micron, 2015, 68, 70-76.	1.1	27
87	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
88	SP94-Targeted Triblock Copolymer Nanoparticle Delivers Thymidine Kinase α -p53 β -Nitroreductase Triple Therapeutic Gene and Restores Anticancer Function against Hepatocellular Carcinoma in Vivo. ACS Applied Materials & Interfaces, 2020, 12, 11307-11319.	4.0	27
89	Tracking Cellular and Immune Therapies in Cancer. Advances in Cancer Research, 2014, 124, 257-296.	1.9	25
90	Radiosynthesis and First-In-Human PET/MRI Evaluation with Clinical-Grade ^{18}F FTC-146. Molecular Imaging and Biology, 2017, 19, 779-786.	1.3	25

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91	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
92	PET Imaging of TIGIT Expression on Tumor-Infiltrating Lymphocytes. <i>Clinical Cancer Research</i> , 2021, 27, 1932-1940.	3.2	25
93	¹⁸ F-FAZA PET Imaging Response Tracks the Reoxygenation of Tumors in Mice upon Treatment with the Mitochondrial Complex I Inhibitor BAY 87-2243. <i>Clinical Cancer Research</i> , 2015, 21, 335-346.	3.2	24
94	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
95	Predictive Modeling of Drug Response in Non-Hodgkin's Lymphoma. <i>PLoS ONE</i> , 2015, 10, e0129433.	1.1	24
96	[¹⁸ 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
97	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
98	Development and Validation of an Immuno-PET Tracer as a Companion Diagnostic Agent for Antibody-Drug Conjugate Therapy to Target the CA6 Epitope. <i>Radiology</i> , 2015, 276, 191-198.	3.6	20
99	Withaferin A and its potential role in glioblastoma (GBM). <i>Journal of Neuro-Oncology</i> , 2017, 131, 201-211.	1.4	20
100	PET Imaging of the Natural Killer Cell Activation Receptor NKp30. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1348-1354.	2.8	19
101	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
102	Quantitative photoacoustic image reconstruction improves accuracy in deep tissue structures. <i>Biomedical Optics Express</i> , 2016, 7, 3811.	1.5	17
103	A transgenic mouse model expressing an ER α folding biosensor reveals the effects of Bisphenol A on estrogen receptor signaling. <i>Scientific Reports</i> , 2016, 6, 34788.	1.6	17
104	[¹⁸ F]FPRGD2 PET/CT imaging of integrin α v β 3 levels in patients with locally advanced rectal carcinoma. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 654-662.	3.3	16
105	A Magnetic Bead-Based Sensor for the Quantification of Multiple Prostate Cancer Biomarkers. <i>PLoS ONE</i> , 2015, 10, e0139484.	1.1	15
106	Characterization of Physiologic ¹⁸ F FSPG Uptake in Healthy Volunteers. <i>Radiology</i> , 2016, 279, 898-905.	3.6	15
107	Clinical Evaluation of (4S)-4-(3-[¹⁸ F]Fluoropropyl)-L-glutamate (18F-FSPG) for PET/CT Imaging in Patients with Newly Diagnosed and Recurrent Prostate Cancer. <i>Clinical Cancer Research</i> , 2020, 26, 5380-5387.	3.2	15
108	Molecular imaging of a fluorescent antibody against epidermal growth factor receptor detects high-grade glioma. <i>Scientific Reports</i> , 2021, 11, 5710.	1.6	15

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109	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
110	Advanced Characterization Techniques for Nanoparticles for Cancer Research: Applications of SEM and NanoSIMS for Locating Au Nanoparticles in Cells. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1569, 157-163.	0.1	14
111	Multiscale Framework for Imaging Radiolabeled Therapeutics. <i>Molecular Pharmaceutics</i> , 2015, 12, 4554-4560.	2.3	14
112	Simultaneous PET/MRI in the Evaluation of Breast and Prostate Cancer Using Combined Na[18F] F and [18F]FDG: a Focus on Skeletal Lesions. <i>Molecular Imaging and Biology</i> , 2020, 22, 397-406.	1.3	14
113	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
114	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
115	Engineering Intracellularly Retained Gaussia Luciferase Reporters for Improved Biosensing and Molecular Imaging Applications. <i>ACS Chemical Biology</i> , 2017, 12, 2345-2353.	1.6	13
116	Evaluation of Glycolytic Response to Multiple Classes of Anti-glioblastoma Drugs by Noninvasive Measurement of Pyruvate Kinase M2 Using [18F]DASA-23. <i>Molecular Imaging and Biology</i> , 2020, 22, 124-133.	1.3	13
117	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. <i>Neoplasia</i> , 2021, 23, 58-67.	2.3	13
118	Protein biomarkers on tissue as imaged via MALDI mass spectrometry: A systematic approach to study the limits of detection. <i>Proteomics</i> , 2016, 16, 1660-1669.	1.3	12
119	Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part I. Reporter Gene Design, Characterization, and Optical in Vivo Imaging of Bone Marrow Stromal Cells after Myocardial Infarction. <i>Radiology</i> , 2016, 280, 815-825.	3.6	12
120	Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part II. In Vivo Imaging of Bone Marrow Stromal Cells in Swine with PET/CT and MR Imaging. <i>Radiology</i> , 2016, 280, 826-836.	3.6	12
121	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
122	Toward the Clinical Development and Validation of a Thy1-Targeted Ultrasound Contrast Agent for the Early Detection of Pancreatic Ductal Adenocarcinoma. <i>Investigative Radiology</i> , 2020, 55, 711-721.	3.5	11
123	18F-FPRGD2 PET/CT imaging of musculoskeletal disorders. <i>Annals of Nuclear Medicine</i> , 2015, 29, 839-847.	1.2	10
124	Continuous-Wave Coherent Raman Spectroscopy via Plasmonic Enhancement. <i>Scientific Reports</i> , 2019, 9, 12092.	1.6	10
125	Whole-body PET Imaging of T-cell Response to Glioblastoma. <i>Clinical Cancer Research</i> , 2021, 27, 6445-6456.	3.2	10
126	Initial evaluation of (4S)-4-(3-[18F]fluoropropyl)-L-glutamate (FSPG) PET/CT imaging in patients with head and neck cancer, colorectal cancer, or non-Hodgkin lymphoma. <i>EJNMMI Research</i> , 2020, 10, 100.	1.1	10

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127	Real-time point-of-care total protein measurement with a miniaturized optoelectronic biosensor and fast fluorescence-based assay. <i>Biosensors and Bioelectronics</i> , 2021, 180, 112823.	5.3	9
128	Cancer diagnostics: On-target probes for early detection. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	8
129	Smartâ€Dustâ€Nanorice for Enhancement of Endogenous Raman Signal, Contrast in Photoacoustic Imaging, and T2â€Shortening in Magnetic Resonance Imaging. <i>Small</i> , 2018, 14, e1703683.	5.2	8
130	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
131	A mathematical model of tumor regression and recurrence after therapeutic oncogene inactivation. <i>Scientific Reports</i> , 2021, 11, 1341.	1.6	8
132	A Humanized Anti-GPC3 Antibody for Immuno-Positron Emission Tomography Imaging of Orthotopic Mouse Model of Patient-Derived Hepatocellular Carcinoma Xenografts. <i>Cancers</i> , 2021, 13, 3977.	1.7	8
133	Design and evaluation of Raman reporters for the Raman-silent region. <i>Nanotheranostics</i> , 2022, 6, 1-9.	2.7	8
134	Nondestructive, serial in vivo imaging of a tissue-flap using a tissue adhesion barrier. <i>Intravital</i> , 2012, 1, 69-76.	2.0	7
135	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
136	High-throughput full-length single-cell mRNA-seq of rare cells. <i>PLoS ONE</i> , 2017, 12, e0188510.	1.1	7
137	Engineering of a novel subnanomolar affinity fibronectin III domain binder targeting human programmed death-ligand 1. <i>Protein Engineering, Design and Selection</i> , 2019, 32, 231-240.	1.0	6
138	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
139	Intraoperative Molecular Imaging in Lung Cancer: The State of the Art and the Future. <i>Molecular Therapy</i> , 2018, 26, 338-341.	3.7	5
140	A First Report on [¹⁸ F]FPRGD ₂ PET/CT Imaging in Multiple Myeloma. <i>Contrast Media and Molecular Imaging</i> , 2017, 2017, 1-7.	0.4	4
141	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
142	A miniaturized optoelectronic biosensor for real-time point-of-care total protein analysis. <i>MethodsX</i> , 2021, 8, 101414.	0.7	3
143	Molecular Imaging of Chimeric Antigen Receptor T Cells By ICOS-Immunopet. <i>Blood</i> , 2020, 136, 5-6.	0.6	3
144	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

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145	Isotopically Encoded Nanotags for Multiplexed Ion Beam Imaging. <i>Advanced Materials Technologies</i> , 2020, 5, 2000098.	3.0	2
146	In Vivo Evaluation of Near-Infrared Fluorescent Probe for TIM3 Targeting in Mouse Glioma. <i>Molecular Imaging and Biology</i> , 2021, , 1.	1.3	2
147	Multigene profiling of single circulating tumor cells. <i>Molecular and Cellular Oncology</i> , 2017, 4, e1289295.	0.3	1
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150	Development of a High-Throughput Molecular Imaging-Based Orthotopic Hepatocellular Carcinoma Model. <i>Cureus</i> , 2015, 7, e281.	0.2	1
151	Nuclear Imaging of Endogenous Markers of Lymphocyte Response. , 2022, , 15-59.		1
152	DD-03 * THE NATURALLY OCCURRING STEROID, WITHAFERIN A, IN SYNERGISTIC CONCERT WITH HER2/EGFR INHIBITORS ABROGATES PROLIFERATION OF HUMAN GLIOBLASTOMA CELL CULTURES AT NANOMOLAR CONCENTRATIONS. <i>Neuro-Oncology</i> , 2014, 16, v60-v60.	0.6	0
153	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
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