# Ophir Vermesh

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1174487/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 154 papers | 10,741 citations | 38720 50 h-index | 34964 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. Nature Nanotechnology, 2014, 9, 233-239. | 15.6 | 1,057 |
| 2 | Hysteresis Caused by Water Molecules in Carbon Nanotube Field-Effect Transistors. Nano Letters, 2003, 3, 193-198. | 4.5 | 890 |
| 3 | Integrated barcode chips for rapid, multiplexed analysis of proteins in microliter quantities of blood. Nature Biotechnology, 2008, 26, 1373-1378. | 9.4 | 507 |
| 4 | Photoacoustic clinical imaging. Photoacoustics, 2019, 14, 77-98. | 4.4 | 368 |
| 5 | Diketopyrrolopyrroleâ€Based Semiconducting Polymer Nanoparticles for In Vivo Photoacoustic Imaging. Advanced Materials, 2015, 27, 5184-5190. | 11.1 | 305 |
| 6 | 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 |
| 7 | Early detection of cancer. Science, 2022, 375, eaay9040. | 6.0 | 291 |
| 8 | Eradication of spontaneous malignancy by local immunotherapy. Science Translational Medicine, 2018, 10, . | 5.8 | 289 |
| 9 | Reporter gene imaging of targeted T cell immunotherapy in recurrent glioma. Science Translational Medicine, 2017, 9, . | 5.8 | 263 |
| 10 | Towards clinically translatable in vivo nanodiagnostics. Nature Reviews Materials, 2017, 2, . | 23.3 | 255 |
| 11 | Preclinical Efficacy of the c-Met Inhibitor CE-355621 in a U87 MG Mouse Xenograft Model Evaluated by <sup>18</sup>F-FDG Small-Animal PET. Journal of Nuclear Medicine, 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. Theranostics, 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. ACS Nano, 2018, 12, 10817-10832. | 7.3 | 170 |
| 14 | Intranasal delivery of targeted polyfunctional goldâ€“iron oxide nanoparticles loaded with therapeutic microRNAs for combined theranostic multimodality imaging and presensitization of glioblastoma to temozolomide. Biomaterials, 2019, 218, 119342. | 5.7 | 159 |
| 15 | Androgen Receptor Splice Variants Dimerize to Transactivate Target Genes. Cancer Research, 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. Journal of Nuclear Medicine, 2010, 51, 433-440. | 2.8 | 156 |
| 17 | Radiotheranostics: a roadmap for future development. Lancet Oncology, The, 2020, 21, e146-e156. | 5.1 | 151 |
| 18 | Targeted superparamagnetic iron oxide nanoparticles for early detection of cancer: Possibilities and challenges. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 287-307. | 1.7 | 145 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Novel Radiotracer for ImmunoPET Imaging of PD-1 Checkpoint Expression on Tumor Infiltrating Lymphocytes. Bioconjugate Chemistry, 2015, 26, 2062-2069. | 1.8 | 139 |
| 20 | Toward achieving precision health. Science Translational Medicine, 2018, 10, . | 5.8 | 134 |
| 21 | Intraoperative Pancreatic Cancer Detection using Tumor-Specific Multimodality Molecular Imaging. Annals of Surgical Oncology, 2018, 25, 1880-1888. | 0.7 | 127 |
| 22 | Imaging activated T cells predicts response to cancer vaccines. Journal of Clinical Investigation, 2018, 128, 2569-2580. | 3.9 | 114 |
| 23 | A mountable toilet system for personalized health monitoring via the analysis of excreta. Nature Biomedical Engineering, 2020, 4, 624-635. | 11.6 | 112 |
| 24 | A Real-Time Clinical Endoscopic System for Intraluminal, Multiplexed Imaging of Surface-Enhanced Raman Scattering Nanoparticles. PLoS ONE, 2015, 10, e0123185. | 1.1 | 106 |
| 25 | Engineered immune cells as highly sensitive cancer diagnostics. Nature Biotechnology, 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. Clinical Cancer Research, 2012, 18, 839-849. | 3.2 | 95 |
| 27 | 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 |
| 28 | 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 |
| 29 | Simultaneous transrectal ultrasound and photoacoustic human prostate imaging. Science Translational Medicine, 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. Lab on A Chip, 2010, 10, 3157. | 3.1 | 85 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | A tunable silkâ€“alginate hydrogel scaffold for stem cell culture and transplantation. Biomaterials, 2014, 35, 3736-3743. | 5.7 | 80 |
| 35 | Tumor treating fields increases membrane permeability in glioblastoma cells. Cell Death Discovery, 2018, 4, 113. | 2.0 | 79 |
| 36 | Regulatory Aspects of Optical Methods and Exogenous Targets for Cancer Detection. Cancer Research, 2017, 77, 2197-2206. | 0.4 | 74 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | First Experience with Clinical-Grade [18F]FPP(RGD)2: An Automated Multi-step Radiosynthesis for Clinical PET Studies. Molecular Imaging and Biology, 2012, 14, 88-95. | 1.3 | 73 |
| 38 | Evaluation of integrin Î±vÎ²6 cystine knot PET tracers to detect cancer and idiopathic pulmonary fibrosis. Nature Communications, 2019, 10, 4673. | 5.8 | 73 |
| 39 | Photoacoustic Tomography Detects Early Vessel Regression and Normalization During Ovarian Tumor Response to the Antiangiogenic Therapy Trebananib. Journal of Nuclear Medicine, 2015, 56, 1942-1947. | 2.8 | 72 |
| 40 | ICOS Is an Indicator of T-cellâ€“Mediated Response to Cancer Immunotherapy. Cancer Research, 2020, 80, 3023-3032. | 0.4 | 72 |
| 41 | Multiparametric Photoacoustic Analysis of Human Thyroid Cancers In Vivo. Cancer Research, 2021, 81, 4849-4860. | 0.4 | 72 |
| 42 | Prospective Evaluation of <sup>68</sup>Ga-RM2 PET/MRI in Patients with Biochemical Recurrence of Prostate Cancer and Negative Findings on Conventional Imaging. Journal of Nuclear Medicine, 2018, 59, 803-808. | 2.8 | 70 |
| 43 | Self-powered microfluidic chips for multiplexed protein assays from whole blood. Lab on A Chip, 2009, 9, 2016. | 3.1 | 69 |
| 44 | [<sup>18</sup>F]GE-180 PET Detects Reduced Microglia Activation After LM11A-31 Therapy in a Mouse Model of Alzheimer's Disease. Theranostics, 2017, 7, 1422-1436. | 4.6 | 64 |
| 45 | Optical coherence contrast imaging using gold nanorods in living mice eyes. Clinical and Experimental Ophthalmology, 2015, 43, 358-366. | 1.3 | 60 |
| 46 | Molecular imaging agents for ultrasound. Current Opinion in Chemical Biology, 2018, 45, 113-120. | 2.8 | 60 |
| 47 | Highâ€Density, Multiplexed Patterning of Cells at Singleâ€Cell Resolution for Tissue Engineering and Other Applications. Angewandte Chemie - International Edition, 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 (<br>States of America, 2015, 112, E4354-63. | 3.3 | 56 |
| 49 | Solâ€“Gel Synthesis and Electrospraying of Biodegradable (P<sub>2</sub>O<sub>5</sub>)<sub>55</sub>â€“(CaO)<sub>30</sub>â€“(Na<sub>2</sub>O)<sub>15</sub> Glass Nanospheres as a Transient Contrast Agent for Ultrasound Stem Cell Imaging. ACS Nano, 2015, 9, 1868-1877. | 7.3 | 55 |
| 50 | The Synthesis of 18F-FDS and Its Potential Application in Molecular Imaging. Molecular Imaging and Biology, 2008, 10, 92-98. | 1.3 | 53 |
| 51 | Use of<sup>64</sup>Cu-labeled Fibronectin Domain with EGFR-Overexpressing Tumor Xenograft: Molecular Imaging. Radiology, 2012, 263, 179-188. | 3.6 | 53 |
| 52 | Molecular Imaging of Chimeric Antigen Receptor T Cells by ICOS-ImmunoPET. Clinical Cancer Research, 2021, 27, 1058-1068. | 3.2 | 53 |
| 53 | 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 |
| 54 | Bioluminescent Imaging of Melanoma in Live Mice. Journal of Investigative Dermatology, 2005, 125, 159-165. | 0.3 | 48 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Cellulose nanoparticles are a biodegradable photoacoustic contrast agent for use in living mice. Photoacoustics, 2014, 2, 119-127. | 4.4 | 48 |
| 56 | 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 |
| 57 | Ultrasound/microbubble-mediated targeted delivery of anticancer microRNA-loaded nanoparticles to deep tissues in pigs. Journal of Controlled Release, 2019, 309, 1-10. | 4.8 | 48 |
| 58 | PET Imaging of Translocator Protein (18 kDa) in a Mouse Model of Alzheimer's Disease Using N-(2,5-Dimethoxybenzyl)-2-<sup>18</sup>F-Fluoro-N-(2-Phenoxyphenyl)Acetamide. Journal of Nuclear Medicine, 2015, 56, 311-316. | 2.8 | 47 |
| 59 | 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 |
| 60 | Visualizing Nerve Injury in a Neuropathic Pain Model with [<sup>18</sup>F]FTC-146 PET/MRI. Theranostics, 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. OncoImmunology, 2020, 9, 1757360. | 2.1 | 46 |
| 62 | Striatal dopamine deficits predict reductions in striatal functional connectivity in major depression: a concurrent 11C-raclopride positron emission tomography and functional magnetic resonance imaging investigation. Translational Psychiatry, 2018, 8, 264. | 2.4 | 44 |
| 63 | 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 |
| 64 | Reduction TriggeredIn SituPolymerization in Living Mice. Journal of the American Chemical Society, 2020, 142, 15575-15584. | 6.6 | 42 |
| 65 | Dosimetry Prediction for Clinical Translation of 64Cu-Pembrolizumab ImmunoPET Targeting Human PD-1 Expression. Scientific Reports, 2018, 8, 633. | 1.6 | 41 |
| 66 | Nanomedicine for Spontaneous Brain Tumors: A Companion Clinical Trial. ACS Nano, 2019, 13, 2858-2869. | 7.3 | 41 |
| 67 | Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scatteringâ€"Nanoparticle Endoscopy. ACS Nano, 2019, 13, 1354-1364. | 7.3 | 40 |
| 68 | Cerenkov Luminescence Endoscopy: Improved Molecular Sensitivity with Î²<sup>â"</sup>-Emitting Radiotracers. Journal of Nuclear Medicine, 2014, 55, 1905-1909. | 2.8 | 39 |
| 69 | Imaging of hepatocellular carcinoma patient-derived xenografts using 89Zr-labeled anti-glypican-3 monoclonal antibody. Biomaterials, 2014, 35, 6964-6971. | 5.7 | 39 |
| 70 | 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 |
| 71 | Continuous health monitoring: An opportunity for precision health. Science Translational Medicine, 2021, 13, . | 5.8 | 39 |
| 72 | The Project Baseline Health Study: a step towards a broader mission to map human health. Npj Digital Medicine, 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 <sup>64</sup>Cu-Rituximab PET. Journal of Nuclear Medicine, 2017, 58, 1845-1851. | 2.8 | 35 |
| 76 | Biodistribution and Radiation Dosimetry of <sup>18</sup>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 Î±vÎ²6 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 | <sup>18</sup>F-FPRGD2 PET/CT Imaging of Integrin Î±<sub>v</sub>Î²<sub>3</sub> 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 18F-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 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 |
| 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 [18F]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. Journal of Neuro-Oncology, 2017, 134, 259-268. | 1.4 | 25 |
| 92 | PET Imaging of TIGIT Expression on Tumor-Infiltrating Lymphocytes. Clinical Cancer Research, 2021, 27, 1932-1940. | 3.2 | 25 |
| 93 | 18F-FAZA PET Imaging Response Tracks the Reoxygenation of Tumors in Mice upon Treatment with the Mitochondrial Complex I Inhibitor BAY 87-2243. Clinical Cancer Research, 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. Cancer Research, 2020, 80, 4731-4740. | 0.4 | 24 |
| 95 | Predictive Modeling of Drug Response in Non-Hodgkinâ€™s Lymphoma. PLoS ONE, 2015, 10, e0129433. | 1.1 | 24 |
| 96 | [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 |
| 97 | 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 |
| 98 | 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 |
| 99 | Withaferin A and its potential role in glioblastoma (GBM). Journal of Neuro-Oncology, 2017, 131, 201-211. | 1.4 | 20 |
| 100 | PET Imaging of the Natural Killer Cell Activation Receptor NKp30. Journal of Nuclear Medicine, 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 In Vivo. ACS Nano, 2021, 15, 19956-19969. | 7.3 | 19 |
| 102 | Quantitative photoacoustic image reconstruction improves accuracy in deep tissue structures. Biomedical Optics Express, 2016, 7, 3811. | 1.5 | 17 |
| 103 | A transgenic mouse model expressing an ERÎ± folding biosensor reveals the effects of Bisphenol A on estrogen receptor signaling. Scientific Reports, 2016, 6, 34788. | 1.6 | 17 |
| 104 | [18F]FPRGD2 PET/CT imaging of integrin Î±vÎ²3 levels in patients with locally advanced rectal carcinoma. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 654-662. | 3.3 | 16 |
| 105 | A Magnetic Bead-Based Sensor for the Quantification of Multiple Prostate Cancer Biomarkers. PLoS ONE, 2015, 10, e0139484. | 1.1 | 15 |
| 106 | Characterization of Physiologic<sup>18</sup>F FSPG Uptake in Healthy Volunteers. Radiology, 2016, 279, 898-905. | 3.6 | 15 |
| 107 | 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 |
| 108 | Molecular imaging of a fluorescent antibody against epidermal growth factor receptor detects high-grade glioma. Scientific Reports, 2021, 11, 5710. | 1.6 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | 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 |
| 110 | Advanced Characterization Techniques for Nanoparticles for Cancer Research: Applications of SEM and NanoSIMS for Locating Au Nanoparticles in Cells. Materials Research Society Symposia Proceedings, 2013, 1569, 157-163. | 0.1 | 14 |
| 111 | Multiscale Framework for Imaging Radiolabeled Therapeutics. Molecular Pharmaceutics, 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. Molecular Imaging and Biology, 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. Clinical Chemistry, 2021, 67, 534-542. | 1.5 | 14 |
| 114 | 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 |
| 115 | Engineering Intracellularly Retained Gaussia Luciferase Reporters for Improved Biosensing and Molecular Imaging Applications. ACS Chemical Biology, 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. Molecular Imaging and Biology, 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. Neoplasia, 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. Proteomics, 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. Radiology, 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. Radiology, 2016, 280, 826-836. | 3.6 | 12 |
| 121 | Tumor characterization by ultrasound-release of multiple protein and microRNA biomarkers, preclinical and clinical evidence. PLoS ONE, 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. Investigative Radiology, 2020, 55, 711-721. | 3.5 | 11 |
| 123 | 18F-FPRGD2 PET/CT imaging of musculoskeletal disorders. Annals of Nuclear Medicine, 2015, 29, 839-847. | 1.2 | 10 |
| 124 | Continuous-Wave Coherent Raman Spectroscopy via Plasmonic Enhancement. Scientific Reports, 2019, 9, 12092. | 1.6 | 10 |
| 125 | Whole-body PET Imaging of T-cell Response to Glioblastoma. Clinical Cancer Research, 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. EJNMMI Research, 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. Biosensors and Bioelectronics, 2021, 180, 112823. | 5.3 | 9 |
| 128 | Cancer diagnostics: On-target probes for early detection. Nature Biomedical Engineering, 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. Small, 2018, 14, e1703683. | 5.2 | 8 |
| 130 | A Dual-Modality Hybrid Imaging System Harnesses Radioluminescence and Sound to Reveal Molecular Pathology of Atherosclerotic Plaques. Scientific Reports, 2018, 8, 8992. | 1.6 | 8 |
| 131 | A mathematical model of tumor regression and recurrence after therapeutic oncogene inactivation. Scientific Reports, 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. Cancers, 2021, 13, 3977. | 1.7 | 8 |
| 133 | Design and evaluation of Raman reporters for the Raman-silent region. Nanotheranostics, 2022, 6, 1-9. | 2.7 | 8 |
| 134 | Nondestructive, serial in vivo imaging of a tissue-flap using a tissue adhesion barrier. Intravital, 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. Scientific Reports, 2020, 10, 5983. | 1.6 | 7 |
| 136 | High-throughput full-length single-cell mRNA-seq of rare cells. PLoS ONE, 2017, 12, e0188510. | 1.1 | 7 |
| 137 | Engineering of a novel subnanomolar affinity fibronectin III domain binder targeting human programmed death-ligand 1. Protein Engineering, Design and Selection, 2019, 32, 231-240. | 1.0 | 6 |
| 138 | Minicircles for a two-step blood biomarker and PET imaging early cancer detection strategy. Journal of Controlled Release, 2021, 335, 281-289. | 4.8 | 6 |
| 139 | Intraoperative Molecular Imaging in Lung Cancer: The State of the Art and the Future. Molecular Therapy, 2018, 26, 338-341. | 3.7 | 5 |
| 140 | A First Report on [<sup>18</sup>F]FPRGD<sub>2</sub> PET/CT Imaging in Multiple Myeloma. Contrast Media and Molecular Imaging, 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. Molecular Imaging, 2020, 19, 153601212093939. | 0.7 | 3 |
| 142 | A miniaturized optoelectronic biosensor for real-time point-of-care total protein analysis. MethodsX, 2021, 8, 101414. | 0.7 | 3 |
| 143 | Molecular Imaging of Chimeric Antigen Receptor T Cells By ICOS-Immunopet. Blood, 2020, 136, 5-6. | 0.6 | 3 |
| 144 | In Vivo Translation of the CIRPI System: Revealing Molecular Pathology of Rabbit Aortic Atherosclerotic Plaques. Journal of Nuclear Medicine, 2019, 60, 1308-1316. | 2.8 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Isotopically Encoded Nanotags for Multiplexed Ion Beam Imaging. Advanced Materials Technologies, 2020, 5, 2000098. | 3.0 | 2 |
| 146 | In Vivo Evaluation of Near-Infrared Fluorescent Probe for TIM3 Targeting in Mouse Glioma. Molecular Imaging and Biology, 2021, , 1. | 1.3 | 2 |
| 147 | Multigene profiling of single circulating tumor cells. Molecular and Cellular Oncology, 2017, 4, e1289295. | 0.3 | 1 |
| 148 | Capture and Genetic Analysis of Circulating Tumor Cells Using a Magnetic Separation Device (Magnetic Sifter). Methods in Molecular Biology, 2017, 1634, 153-162. | 0.4 | 1 |
| 149 | Multiplexed Raman Imaging in Tissues and Living Organisms. Methods in Molecular Biology, 2021, 2350, 331-340. | 0.4 | 1 |
| 150 | Development of a High-Throughput Molecular Imaging-Based Orthotopic Hepatocellular Carcinoma Model. Cureus, 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. Neuro-Oncology, 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. Journal of Materials Research, 2021, 36, 3383. | 1.2 | 0 |
| 154 | Tracking T Cell Activation By OX40 Immuno-PET: A Novel Strategy for Imaging of Graft Versus Host Disease. Blood, 2018, 132, 4527-4527. | 0.6 | 0 |