

Pat B Zanzonico

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

4,163
citations

159585

30
h-index

114465

63
g-index

70
all docs

70
docs citations

70
times ranked

6651
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical translation of an ultrasmall inorganic optical-PET imaging nanoparticle probe. <i>Science Translational Medicine</i> , 2014, 6, 260ra149.	12.4	589
2	Multimodal silica nanoparticles are effective cancer-targeted probes in a model of human melanoma. <i>Journal of Clinical Investigation</i> , 2011, 121, 2768-2780.	8.2	558
3	Ultrasmall nanoparticles induce ferroptosis in nutrient-deprived cancer cells and suppress tumour growth. <i>Nature Nanotechnology</i> , 2016, 11, 977-985.	31.5	467
4	The epichaperome is an integrated chaperome network that facilitates tumour survival. <i>Nature</i> , 2016, 538, 397-401.	27.8	233
5	Convection-enhanced delivery for diffuse intrinsic pontine glioma: a single-centre, dose-escalation, phase 1 trial. <i>Lancet Oncology</i> , The, 2018, 19, 1040-1050.	10.7	201
6	Routine Quality Control of Clinical Nuclear Medicine Instrumentation: A Brief Review. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1114-1131.	5.0	141
7	First-in-Human Human Epidermal Growth Factor Receptor 2 ^α -Targeted Imaging Using ⁸⁹ Zr-Pertuzumab PET/CT: Dosimetry and Clinical Application in Patients with Breast Cancer. <i>Journal of Nuclear Medicine</i> , 2018, 59, 900-906.	5.0	126
8	Ultrasmall targeted nanoparticles with engineered antibody fragments for imaging detection of HER2-overexpressing breast cancer. <i>Nature Communications</i> , 2018, 9, 4141.	12.8	126
9	Pharmacokinetics, Biodistribution, and Radiation Dosimetry for ⁸⁹ Zr-Trastuzumab in Patients with Esophagogastric Cancer. <i>Journal of Nuclear Medicine</i> , 2018, 59, 161-166.	5.0	96
10	Biodistribution and Dosimetry of ¹⁸ F-Meta-Fluorobenzylguanidine: A First-in-Human PET/CT Imaging Study of Patients with Neuroendocrine Malignancies. <i>Journal of Nuclear Medicine</i> , 2018, 59, 147-153.	5.0	96
11	In Vivo PET Assay of Tumor Glutamine Flux and Metabolism: In-Human Trial of ¹⁸ F-(2 <i>S</i> ,4 <i>R</i>)-4-Fluoroglutamine. <i>Radiology</i> , 2018, 287, 667-675.	7.3	80
12	Radiation Exposure of Computed Tomography and Direct Intracoronary Angiography. <i>Journal of the American College of Cardiology</i> , 2006, 47, 1846-1849.	2.8	79
13	Principles of Nuclear Medicine Imaging: Planar, SPECT, PET, Multi-modality, and Autoradiography Systems. <i>Radiation Research</i> , 2012, 177, 349-364.	1.5	79
14	Establishment of the <i>In Vivo</i> Efficacy of Pretargeted Radioimmunotherapy Utilizing Inverse Electron Demand Diels-Alder Click Chemistry. <i>Molecular Cancer Therapeutics</i> , 2017, 16, 124-133.	4.1	79
15	Target-or-Clear Zirconium-89 Labeled Silica Nanoparticles for Enhanced Cancer-Directed Uptake in Melanoma: A Comparison of Radiolabeling Strategies. <i>Chemistry of Materials</i> , 2017, 29, 8269-8281.	6.7	59
16	Ultrasmall Core-Shell Silica Nanoparticles for Precision Drug Delivery in a High-Grade Malignant Brain Tumor Model. <i>Clinical Cancer Research</i> , 2020, 26, 147-158.	7.0	59
17	Use of Ultrasmall Core-Shell Fluorescent Silica Nanoparticles for Image-Guided Sentinel Lymph Node Biopsy in Head and Neck Melanoma. <i>JAMA Network Open</i> , 2021, 4, e211936.	5.9	59
18	Cancer-Targeting Ultrasmall Silica Nanoparticles for Clinical Translation: Physicochemical Structure and Biological Property Correlations. <i>Chemistry of Materials</i> , 2017, 29, 8766-8779.	6.7	58

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19	Intraoperative mapping of sentinel lymph node metastases using a clinically translated ultrasmall silica nanoparticle. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, 535-553.	6.1	49
20	Melanocortin-1 Receptor-Targeting Ultrasmall Silica Nanoparticles for Dual-Modality Human Melanoma Imaging. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4379-4393.	8.0	40
21	Paradigms for Precision Medicine in Epithelial Cancer Therapy. <i>Cancer Cell</i> , 2019, 36, 559-573.e7.	16.8	40
22	B7H3-Directed Intraperitoneal Radioimmunotherapy With Radioiodinated Omburtamab for Desmoplastic Small Round Cell Tumor and Other Peritoneal Tumors: Results of a Phase I Study. <i>Journal of Clinical Oncology</i> , 2020, 38, 4283-4291.	1.6	40
23	Cerenkov Luminescence Imaging for Radiation Dose Calculation of a ⁹⁰ Y-Labeled Gastrin-Releasing Peptide Receptor Antagonist. <i>Journal of Nuclear Medicine</i> , 2015, 56, 805-811.	5.0	39
24	The potential of theragnostic ¹²⁴ I-8H9 convection-enhanced delivery in diffuse intrinsic pontine glioma. <i>Neuro-Oncology</i> , 2014, 16, 800-806.	1.2	38
25	Theranostic pretargeted radioimmunotherapy of colorectal cancer xenografts in mice using picomolar affinity ⁸⁶ Y- or ¹⁷⁷ Lu-DOTA-Bn binding scFv C825/GPA33 IgG bispecific immunoconjugates. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 925-937.	6.4	38
26	[¹³¹ I]FIAU labeling of genetically transduced, tumor-reactive lymphocytes: cell-level dosimetry and dose-dependent toxicity. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2006, 33, 988-997.	6.4	36
27	Curative Multicycle Radioimmunotherapy Monitored by Quantitative SPECT/CT-Based Theranostics, Using Bispecific Antibody Pretargeting Strategy in Colorectal Cancer. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1735-1742.	5.0	36
28	Molecular phenotyping and image-guided surgical treatment of melanoma using spectrally distinct ultrasmall core-shell silica nanoparticles. <i>Science Advances</i> , 2019, 5, eaax5208.	10.3	36
29	Targeted melanoma radiotherapy using ultrasmall ¹⁷⁷ Lu-labeled α -melanocyte stimulating hormone-functionalized core-shell silica nanoparticles. <i>Biomaterials</i> , 2020, 241, 119858.	11.4	35
30	Animal-specific positioning molds for registration of repeat imaging studies: comparative microPET imaging of F18-labeled fluoro-deoxyglucose and fluoro-misonidazole in rodent tumors. <i>Nuclear Medicine and Biology</i> , 2006, 33, 65-70.	0.6	34
31	Targeting of radiolabeled J591 antibody to PSMA-expressing tumors: optimization of imaging and therapy based on non-linear compartmental modeling. <i>EJNMMI Research</i> , 2016, 6, 7.	2.5	32
32	Theranostic pretargeted radioimmunotherapy of internalizing solid tumor antigens in human tumor xenografts in mice: Curative treatment of HER2-positive breast carcinoma. <i>Theranostics</i> , 2018, 8, 5106-5125.	10.0	32
33	PARaDIM: A PHITS-Based Monte Carlo Tool for Internal Dosimetry with Tetrahedral Mesh Computational Phantoms. <i>Journal of Nuclear Medicine</i> , 2019, 60, 1802-1811.	5.0	27
34	Reproducibility of ¹⁸ F-fluoromisonidazole intratumour distribution in non-small cell lung cancer. <i>EJNMMI Research</i> , 2016, 6, 79.	2.5	25
35	A Critical Assessment of the Linear No-Threshold Hypothesis. <i>Clinical Nuclear Medicine</i> , 2019, 44, 521-525.	1.3	23
36	Pharmacokinetic Analysis of Dynamic ¹⁸ F-Fluoromisonidazole PET Data in Non-Small Cell Lung Cancer. <i>Journal of Nuclear Medicine</i> , 2017, 58, 911-919.	5.0	22

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37	A Self-Assembling and Disassembling (SADA) Bispecific Antibody (BsAb) Platform for Curative Two-step Pretargeted Radioimmunotherapy. <i>Clinical Cancer Research</i> , 2021, 27, 532-541.	7.0	19
38	Chemical tools for epichaperome-mediated interactome dysfunctions of the central nervous system. <i>Nature Communications</i> , 2021, 12, 4669.	12.8	19
39	Radiosynthesis of the iodine-124 labeled Hsp90 inhibitor PU-H71. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2016, 59, 129-132.	1.0	17
40	Arsenic Trioxide as a Radiation Sensitizer for ¹³¹ I-Metaiodobenzylguanidine Therapy: Results of a Phase II Study. <i>Journal of Nuclear Medicine</i> , 2016, 57, 231-237.	5.0	17
41	Targeted radioimmunotherapy for embryonal tumor with multilayered rosettes. <i>Journal of Neuro-Oncology</i> , 2019, 143, 101-106.	2.9	17
42	Feasibility of 18F-Fluoromisonidazole Kinetic Modeling in Head and Neck Cancer Using Shortened Acquisition Times. <i>Journal of Nuclear Medicine</i> , 2016, 57, 334-341.	5.0	16
43	An N-Acetylgalactosamino Dendron-Clearing Agent for High-Therapeutic-Index DOTA-Hapten Pretargeted Radioimmunotherapy. <i>Bioconjugate Chemistry</i> , 2020, 31, 501-506.	3.6	16
44	PET-Based Biological Imaging for Radiation Therapy Treatment Planning. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2006, 16, 61-102.	0.9	15
45	Hybrid PET/MRI enables high-spatial resolution, quantitative imaging of amyloid plaques in an Alzheimer's disease mouse model. <i>Scientific Reports</i> , 2020, 10, 10379.	3.3	15
46	Tumor Response to Radiopharmaceutical Therapies: The Knowns and the Unknowns. <i>Journal of Nuclear Medicine</i> , 2021, 62, 12S-22S.	5.0	14
47	PET-based compartmental modeling of 124I-A33 antibody: quantitative characterization of patient-specific tumor targeting in colorectal cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 1700-1706.	6.4	13
48	18F-Fluorocholine PET uptake correlates with pathologic evidence of recurrent tumor after stereotactic radiosurgery for brain metastases. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 1446-1457.	6.4	13
49	A Genomic Profile of Local Immunity in the Melanoma Microenvironment Following Treatment with β -Particle-Emitting Ultrasmall Silica Nanoparticles. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2020, 35, 459-473.	1.0	13
50	Overcoming Barriers to Radiopharmaceutical Therapy (RPT): An Overview From the NRG-NCI Working Group on Dosimetry of Radiopharmaceutical Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 905-912.	0.8	13
51	PSA-Targeted Alpha-, Beta-, and Positron-Emitting Immunotheranostics in Murine Prostate Cancer Models and Nonhuman Primates. <i>Clinical Cancer Research</i> , 2021, 27, 2050-2060.	7.0	13
52	Reverse-Contrast Imaging and Targeted Radiation Therapy of Advanced Pancreatic Cancer Models. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 93, 444-453.	0.8	12
53	Introduction to Clinical and Laboratory (Small-Animal) Image Registration and Fusion. , 2006, 2006, 1580-3.		11
54	Broad-Spectrum Multi-Modality Image Registration: From PET, CT, and MRI to Autoradiography, Microscopy, and Beyond. , 2006, 2006, 1584-8.		11

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55	Gene therapy using therapeutic and diagnostic recombinant oncolytic vaccinia virus GLV-1h153 for management of colorectal peritoneal carcinomatosis. <i>Surgery</i> , 2015, 157, 331-337.	1.9	11
56	Ultrasmall Nanoparticle Delivery of Doxorubicin Improves Therapeutic Index for High-Grade Glioma. <i>Clinical Cancer Research</i> , 2022, 28, 2938-2952.	7.0	11
57	Patient-Specific Radiation Dosimetry for Radionuclide Therapy of Liver Tumors With Intrahepatic Artery Rhenium-188 Lipiodol. <i>Seminars in Nuclear Medicine</i> , 2008, 38, S30-S39.	4.6	10
58	Patient-adapted organ absorbed dose and effective dose estimates in pediatric 18F-FDG positron emission tomography/computed tomography studies. <i>BMC Medical Imaging</i> , 2020, 20, 9.	2.7	10
59	Intratumoral compartmental radioimmunotherapy using ¹³¹ I-omburtamab pharmacokinetic modeling to optimize therapeutic index. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 1166-1177.	6.4	9
60	Technical Note: Scintillation well counters and particle counting digital autoradiography devices can be used to detect activities associated with genomic profiling adequacy of biopsy specimens obtained after a low activity ¹⁸ F-FDG injection. <i>Medical Physics</i> , 2018, 45, 2179-2185.	3.0	8
61	F-18 meta-fluorobenzylguanidine PET imaging of myocardial sympathetic innervation. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 3179-3188.	2.1	7
62	Adaptation, Commissioning, and Evaluation of a 3D Treatment Planning System for High-Resolution Small-Animal Irradiation. <i>Technology in Cancer Research and Treatment</i> , 2016, 15, 460-471.	1.9	6
63	First-in-Humans Trial of Dasatinib-Derivative Tracer for Tumor Kinase-Targeted PET. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1580-1587.	5.0	5
64	Intraperitoneal Pretargeted Radioimmunotherapy for Colorectal Peritoneal Carcinomatosis. <i>Molecular Cancer Therapeutics</i> , 2022, 21, 125-137.	4.1	5
65	Guest Editorial. <i>Seminars in Nuclear Medicine</i> , 2018, 48, 309-310.	4.6	1
66	Broad-Spectrum Multi-Modality Image Registration: From PET, CT, and MRI to Autoradiography, Microscopy, and Beyond. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, . .	0.5	0