

# Bernd J Pichler

## List of Publications by Citations

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110  
papers

7,495  
citations

43  
h-index

86  
g-index

116  
ext. papers

8,371  
ext. citations

8.7  
avg, IF

5.5  
L-index

#	Paper	IF	Citations
110	Simultaneous PET-MRI: a new approach for functional and morphological imaging. <i>Nature Medicine</i> , <b>2008</b> , 14, 459-65	50.5	829
109	MRI-based attenuation correction for PET/MRI: a novel approach combining pattern recognition and atlas registration. <i>Journal of Nuclear Medicine</i> , <b>2008</b> , 49, 1875-83	8.9	384
108	Simultaneous MR/PET imaging of the human brain: feasibility study. <i>Radiology</i> , <b>2008</b> , 248, 1028-35	20.5	382
107	PET/MRI: paving the way for the next generation of clinical multimodality imaging applications. <i>Journal of Nuclear Medicine</i> , <b>2010</b> , 51, 333-6	8.9	348
106	Towards quantitative PET/MRI: a review of MR-based attenuation correction techniques. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2009</b> , 36 Suppl 1, S93-104	8.8	278
105	Performance test of an LSO-APD detector in a 7-T MRI scanner for simultaneous PET/MRI. <i>Journal of Nuclear Medicine</i> , <b>2006</b> , 47, 639-47	8.9	253
104	Simultaneous in vivo positron emission tomography and magnetic resonance imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 3705-10	11.5	250
103	Simultaneous acquisition of multislice PET and MR images: initial results with a MR-compatible PET scanner. <i>Journal of Nuclear Medicine</i> , <b>2006</b> , 47, 1968-76	8.9	235
102	TNFR1 signaling and IFN-gamma signaling determine whether T cells induce tumor dormancy or promote multistage carcinogenesis. <i>Cancer Cell</i> , <b>2008</b> , 13, 507-18	24.3	234
101	MRI-based attenuation correction for whole-body PET/MRI: quantitative evaluation of segmentation- and atlas-based methods. <i>Journal of Nuclear Medicine</i> , <b>2011</b> , 52, 1392-9	8.9	230
100	Hybrid PET/MRI of intracranial masses: initial experiences and comparison to PET/CT. <i>Journal of Nuclear Medicine</i> , <b>2010</b> , 51, 1198-205	8.9	194
99	Positron emission tomography/magnetic resonance imaging: the next generation of multimodality imaging?. <i>Seminars in Nuclear Medicine</i> , <b>2008</b> , 38, 199-208	5.4	172
98	Latest advances in molecular imaging instrumentation. <i>Journal of Nuclear Medicine</i> , <b>2008</b> , 49 Suppl 2, S5-S23S	8.9	165
97	Cell tracking with optical imaging. <i>European Radiology</i> , <b>2008</b> , 18, 2021-32	8	155
96	PET/MR images acquired with a compact MR-compatible PET detector in a 7-T magnet. <i>Radiology</i> , <b>2007</b> , 244, 807-14	20.5	148
95	Pre-clinical PET/MR: technological advances and new perspectives in biomedical research. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2009</b> , 36 Suppl 1, S56-68	8.8	132
94	MR-Based PET attenuation correction for PET/MR imaging. <i>Seminars in Nuclear Medicine</i> , <b>2013</b> , 43, 45-59	5.4	129

93	A prototype high-resolution animal positron tomograph with avalanche photodiode arrays and LSO crystals. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2001</b> , 28, 136-43		129
92	Simultaneous PET-MRI reveals brain function in activated and resting state on metabolic, hemodynamic and multiple temporal scales. <i>Nature Medicine</i> , <b>2013</b> , 19, 1184-9	50.5	119
91	Technical performance evaluation of a human brain PET/MRI system. <i>European Radiology</i> , <b>2012</b> , 22, 1776-88	68.8	119
90	Combined PET/MRI: one step further in multimodality imaging. <i>Trends in Molecular Medicine</i> , <b>2010</b> , 16, 508-15	11.5	106
89	SOX2 expression associates with stem cell state in human ovarian carcinoma. <i>Cancer Research</i> , <b>2013</b> , 73, 5544-55	10.1	104
88	ImmunoPET/MR imaging allows specific detection of <i>Aspergillus fumigatus</i> lung infection in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E1026-33	11.5	97
87	Multimodal imaging approaches: PET/CT and PET/MRI. <i>Handbook of Experimental Pharmacology</i> , <b>2008</b> , 109-32	3.2	93
86	PET/MRI hybrid imaging: devices and initial results. <i>European Radiology</i> , <b>2008</b> , 18, 1077-86	8	89
85	Longitudinal PET-MRI reveals $\beta$ -amyloid deposition and rCBF dynamics and connects vascular amyloidosis to quantitative loss of perfusion. <i>Nature Medicine</i> , <b>2014</b> , 20, 1485-92	50.5	87
84	PET imaging of prostate cancer xenografts with a highly specific antibody against the prostate-specific membrane antigen. <i>Journal of Nuclear Medicine</i> , <b>2009</b> , 50, 606-11	8.9	83
83	Targeted mast cell silencing protects against joint destruction and angiogenesis in experimental arthritis in mice. <i>Arthritis and Rheumatism</i> , <b>2007</b> , 56, 1806-16		71
82	Evaluation of Geiger-mode APDs for PET block detector designs. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 1815-32	3.8	67
81	Simultaneous $^{68}\text{Ga}$ -DOTATOC-PET/MRI for IMRT treatment planning for meningioma: first experience. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2011</b> , 81, 277-83	4	65
80	Combined PET/MR: a technology becomes mature. <i>Journal of Nuclear Medicine</i> , <b>2015</b> , 56, 165-8	8.9	61
79	Principles of PET/MR Imaging. <i>Journal of Nuclear Medicine</i> , <b>2014</b> , 55, 2S-10S	8.9	60
78	$^{64}\text{Cu}$ antibody-targeting of the T-cell receptor and subsequent internalization enables in vivo tracking of lymphocytes by PET. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 1161-6	11.5	58
77	An integrated MR/PET system: prospective applications. <i>Abdominal Imaging</i> , <b>2009</b> , 34, 668-74		58
76	PI3K Pathway Inhibition Achieves Potent Antitumor Activity in Melanoma Brain Metastases In Vitro and In Vivo. <i>Clinical Cancer Research</i> , <b>2016</b> , 22, 5818-5828	12.9	53

75	Preclinical and Translational PET/MR Imaging. <i>Journal of Nuclear Medicine</i> , <b>2014</b> , 55, 11S-18S	8.9	51
74	Imaging of delayed-type hypersensitivity reaction by PET and 18F-galacto-RGD. <i>Journal of Nuclear Medicine</i> , <b>2005</b> , 46, 184-9	8.9	50
73	Hybrid cardiac imaging using PET/MRI: a joint position statement by the European Society of Cardiovascular Radiology (ESCR) and the European Association of Nuclear Medicine (EANM). <i>European Radiology</i> , <b>2018</b> , 28, 4086-4101	8	48
72	In vivo tracking of Th1 cells by PET reveals quantitative and temporal distribution and specific homing in lymphatic tissue. <i>Journal of Nuclear Medicine</i> , <b>2014</b> , 55, 301-7	8.9	47
71	Assessment of MR compatibility of a PET insert developed for simultaneous multiparametric PET/MR imaging on an animal system operating at 7 T. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 269-79 <sup>4.4</sup>	8.9	46
70	MR-based attenuation correction methods for improved PET quantification in lesions within bone and susceptibility artifact regions. <i>Journal of Nuclear Medicine</i> , <b>2013</b> , 54, 1768-74	8.9	45
69	A hyperspectral fluorescence system for 3D in vivo optical imaging. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 2029-43	3.8	45
68	A decade of combined imaging: from a PET attached to a CT to a PET inside an MR. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2009</b> , 36 Suppl 1, S1-2	8.8	44
67	Diffusion tensor imaging in a human PET/MR hybrid system. <i>Investigative Radiology</i> , <b>2010</b> , 45, 270-4	10.1	43
66	The immunoadhesin glycoprotein VI-Fc regulates arterial remodelling after mechanical injury in ApoE <sup>-/-</sup> mice. <i>Cardiovascular Research</i> , <b>2008</b> , 80, 131-7	9.9	43
65	Quantitative Evaluation of Segmentation- and Atlas-Based Attenuation Correction for PET/MR on Pediatric Patients. <i>Journal of Nuclear Medicine</i> , <b>2015</b> , 56, 1067-74	8.9	41
64	Towards Translational ImmunoPET/MR Imaging of Invasive Pulmonary Aspergillosis: The Humanised Monoclonal Antibody JF5 Detects Lung Infections. <i>Theranostics</i> , <b>2017</b> , 7, 3398-3414	12.1	41
63	High-resolution animal PET imaging of prostate cancer xenografts with three different 64Cu-labeled antibodies against native cell-adherent PSMA. <i>Prostate</i> , <b>2010</b> , 70, 1413-21	4.2	40
62	Assessment of murine brain tissue shrinkage caused by different histological fixatives using magnetic resonance and computed tomography imaging. <i>Histology and Histopathology</i> , <b>2015</b> , 30, 601-13 <sup>1.4</sup>	8.9	39
61	Phosphoglycerate kinase 1 promoting tumor progression and metastasis in gastric cancer - detected in a tumor mouse model using positron emission tomography/magnetic resonance imaging. <i>Cellular Physiology and Biochemistry</i> , <b>2010</b> , 26, 147-54	3.9	38
60	Assessment of PET tracer uptake in hormone-independent and hormone-dependent xenograft prostate cancer mouse models. <i>Journal of Nuclear Medicine</i> , <b>2011</b> , 52, 1654-63	8.9	36
59	Quantification accuracy and partial volume effect in dependence of the attenuation correction of a state-of-the-art small animal PET scanner. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 3981-93	3.8	34
58	The effect of patient positioning aids on PET quantification in PET/MR imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2011</b> , 38, 920-9	8.8	33

57	Endothelial depletion of murine SRF/MRTF provokes intracerebral hemorrhagic stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 9914-9	11.5	30
56	Isochronous assessment of cardiac metabolism and function in mice using hybrid PET/MRI. <i>Journal of Nuclear Medicine</i> , <b>2010</b> , 51, 1277-84	8.9	30
55	Weak Agonistic LPS Restores Intestinal Immune Homeostasis. <i>Molecular Therapy</i> , <b>2019</b> , 27, 1974-1991	11.7	29
54	Cre/lox-assisted non-invasive in vivo tracking of specific cell populations by positron emission tomography. <i>Nature Communications</i> , <b>2017</b> , 8, 444	17.4	28
53	Enhanced Central Neural Gain Compensates Acoustic Trauma-induced Cochlear Impairment, but Unlikely Correlates with Tinnitus and Hyperacusis. <i>Neuroscience</i> , <b>2019</b> , 407, 146-169	3.9	28
52	Multimodal elucidation of choline metabolism in a murine glioma model using magnetic resonance spectroscopy and <sup>11</sup> C-choline positron emission tomography. <i>Cancer Research</i> , <b>2013</b> , 73, 1470-80	10.1	26
51	Cancer immunotherapy is accompanied by distinct metabolic patterns in primary and secondary lymphoid organs observed by non-invasive F-FDG-PET. <i>Theranostics</i> , <b>2020</b> , 10, 925-937	12.1	26
50	Decoding Intratumoral Heterogeneity of Breast Cancer by Multiparametric In Vivo Imaging: A Translational Study. <i>Cancer Research</i> , <b>2016</b> , 76, 5512-22	10.1	26
49	PET/MRI Hybrid Systems. <i>Seminars in Nuclear Medicine</i> , <b>2018</b> , 48, 332-347	5.4	25
48	Comparison of small animal CT contrast agents. <i>Contrast Media and Molecular Imaging</i> , <b>2016</b> , 11, 272-84	3.2	25
47	A Population-Based Gaussian Mixture Model Incorporating <sup>18</sup> F-FDG PET and Diffusion-Weighted MRI Quantifies Tumor Tissue Classes. <i>Journal of Nuclear Medicine</i> , <b>2016</b> , 57, 473-9	8.9	23
46	Shine-Through in PET/MR Imaging: Effects of the Magnetic Field on Positron Range and Subsequent Image Artifacts. <i>Journal of Nuclear Medicine</i> , <b>2015</b> , 56, 951-4	8.9	21
45	Visualization and quantification of homing kinetics of myeloid-derived suppressor cells in primary and metastatic cancer. <i>Theranostics</i> , <b>2019</b> , 9, 5869-5885	12.1	19
44	Significant impact of different oxygen breathing conditions on noninvasive in vivo tumor-hypoxia imaging using [ <sup>18</sup> F]-fluoro-azomycinarabino-furanoside ([ <sup>18</sup> F]FAZA). <i>Radiation Oncology</i> , <b>2011</b> , 6, 165	4.2	17
43	Pharmacokinetics and PET imaging properties of two recombinant anti-PSMA antibody fragments in comparison to their parental antibody. <i>Prostate</i> , <b>2014</b> , 74, 743-55	4.2	16
42	Feasibility of sequential PET/MRI using a state-of-the-art small animal PET and a 1 T benchtop MRI. <i>Molecular Imaging and Biology</i> , <b>2013</b> , 15, 155-65	3.8	15
41	Oxygen breathing affects <sup>3</sup> Sdeoxy- <sup>3</sup> S <sup>18</sup> F-fluorothymidine uptake in mouse models of arthritis and cancer. <i>Journal of Nuclear Medicine</i> , <b>2012</b> , 53, 823-30	8.9	15
40	Image-derived biomarkers and multimodal imaging strategies for lung cancer management. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2015</b> , 42, 634-43	8.8	14

39	Assessment of rodent brain activity using combined [(15)O]H <sub>2</sub> O-PET and BOLD-fMRI. <i>NeuroImage</i> , <b>2014</b> , 89, 271-9	7.9	13
38	A Comparative pO <sub>2</sub> Probe and [18F]-Fluoro-Azomycinarabino-Furanoside ([18F]FAZA) PET Study Reveals Anesthesia-Induced Impairment of Oxygenation and Perfusion in Tumor and Muscle. <i>PLoS ONE</i> , <b>2015</b> , 10, e0124665	3.7	13
37	Janus kinase 3 regulates renal 25-hydroxyvitamin D 1hydroxylase expression, calcitriol formation, and phosphate metabolism. <i>Kidney International</i> , <b>2015</b> , 87, 728-37	9.9	13
36	Simultaneous PET/MR imaging of the brain: feasibility of cerebral blood flow measurements with FAIR-TrueFISP arterial spin labeling MRI. <i>Acta Radiologica</i> , <b>2012</b> , 53, 1066-72	2	13
35	Quantitative Rodent Brain Receptor Imaging. <i>Molecular Imaging and Biology</i> , <b>2020</b> , 22, 223-244	3.8	13
34	Imaging fibrosis in inflammatory diseases: targeting the exposed extracellular matrix. <i>Theranostics</i> , <b>2019</b> , 9, 2868-2881	12.1	11
33	Functional resting-state brain connectivity is accompanied by dynamic correlations of application-dependent [F]FDG PET-tracer fluctuations. <i>NeuroImage</i> , <b>2019</b> , 196, 161-172	7.9	11
32	Preclinical evaluation of a novel c-Met inhibitor in a gastric cancer xenograft model using small animal PET. <i>Molecular Imaging and Biology</i> , <b>2013</b> , 15, 203-11	3.8	11
31	A Novel Unsupervised Segmentation Approach Quantifies Tumor Tissue Populations Using Multiparametric MRI: First Results with Histological Validation. <i>Molecular Imaging and Biology</i> , <b>2017</b> , 19, 391-397	3.8	11
30	PET/MR imaging and optical imaging of metastatic rhabdomyosarcoma in mice. <i>Journal of Nuclear Medicine</i> , <b>2014</b> , 55, 1545-51	8.9	10
29	An evaluation of 2-deoxy-2-[18F]fluoro-D-glucose and 3Sdeoxy-3S[18F]-fluorothymidine uptake in human tumor xenograft models. <i>Molecular Imaging and Biology</i> , <b>2012</b> , 14, 355-65	3.8	10
28	Single and dual energy attenuation correction in PET/CT in the presence of iodine based contrast agents. <i>Medical Physics</i> , <b>2008</b> , 35, 1959-69	4.4	10
27	Cysteine-type cathepsins promote the effector phase of acute cutaneous delayed-type hypersensitivity reactions. <i>Theranostics</i> , <b>2019</b> , 9, 3903-3917	12.1	9
26	Quantification of $\beta$ Amyloidosis and rCBF with Dedicated PET, 7 T MR Imaging, and High-Resolution Microscopic MR Imaging at 16.4 T in APP23 Mice. <i>Journal of Nuclear Medicine</i> , <b>2015</b> , 56, 1593-9	8.9	9
25	Linking imaging to omics utilizing image-guided tissue extraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E2980-E2987	11.5	9
24	On the quantification accuracy, homogeneity, and stability of simultaneous positron emission tomography/magnetic resonance imaging systems. <i>Investigative Radiology</i> , <b>2014</b> , 49, 373-81	10.1	9
23	Comparison of the Accuracy of FMT/CT and PET/MRI for the Assessment of Antibody Biodistribution in Squamous Cell Carcinoma Xenografts. <i>Journal of Nuclear Medicine</i> , <b>2018</b> , 59, 44-50	8.9	8
22	Tracking the fate of adoptively transferred myeloid-derived suppressor cells in the primary breast tumor microenvironment. <i>PLoS ONE</i> , <b>2018</b> , 13, e0196040	3.7	8

21	Characterization of a novel murine model for spontaneous hemorrhagic stroke using in vivo PET and MR multiparametric imaging. <i>NeuroImage</i> , <b>2017</b> , 155, 245-256	7.9	6
20	Hybrid cardiac imaging using PET/MRI: a joint position statement by the European Society of Cardiovascular Radiology (ESCR) and the European Association of Nuclear Medicine (EANM). <i>European Journal of Hybrid Imaging</i> , <b>2018</b> , 2,	1.7	6
19	The Synergistic Effect of Selumetinib/Docetaxel Combination Therapy Monitored by [(18)F]FDG/[(18)F]FLT PET and Diffusion-Weighted Magnetic Resonance Imaging in a Colorectal Tumor Xenograft Model. <i>Molecular Imaging and Biology</i> , <b>2016</b> , 18, 249-57	3.8	6
18	Impact of the Arterial Input Function Recording Method on Kinetic Parameters in Small-Animal PET. <i>Journal of Nuclear Medicine</i> , <b>2018</b> , 59, 1159-1164	8.9	5
17	Non-invasive monitoring of pancreatic tumor progression in the RIP1-Tag2 mouse by magnetic resonance imaging. <i>Molecular Imaging and Biology</i> , <b>2013</b> , 15, 186-93	3.8	5
16	Quantitative correlation at the molecular level of tumor response to docetaxel by multimodal diffusion-weighted magnetic resonance imaging and [(18)F]FDG/[(18)F]FLT positron emission tomography. <i>Molecular Imaging</i> , <b>2014</b> , 13,	3.7	5
15	In vivo optical imaging of matrix metalloproteinase activity detects acute and chronic contact hypersensitivity reactions and enables monitoring of the antiinflammatory effects of N-acetylcysteine. <i>Molecular Imaging</i> , <b>2014</b> , 13,	3.7	4
14	Spectral Clustering Predicts Tumor Tissue Heterogeneity Using Dynamic F-FDG PET: A Complement to the Standard Compartmental Modeling Approach. <i>Journal of Nuclear Medicine</i> , <b>2017</b> , 58, 651-657	8.9	3
13	[F]Fluoro-azomycin-2'-deoxy-β-ribofuranoside - A new imaging agent for tumor hypoxia in comparison with [F]FAZA. <i>Nuclear Medicine and Biology</i> , <b>2016</b> , 43, 759-769	2.1	3
12	Elucidating the complementarity of resting-state networks derived from dynamic [F]FDG and hemodynamic fluctuations using simultaneous small-animal PET/MRI. <i>NeuroImage</i> , <b>2021</b> , 236, 118045	7.9	3
11	Machine learning identifies stroke features between species. <i>Theranostics</i> , <b>2021</b> , 11, 3017-3034	12.1	3
10	Murine Lymphocyte Labeling by 64Cu-Antibody Receptor Targeting for In Vivo Cell Trafficking by PET/CT. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	2
9	The PI3K inhibitor BKM120 has potent antitumor activity in melanoma brain metastases in vitro and in vivo.. <i>Journal of Clinical Oncology</i> , <b>2013</b> , 31, e20050-e20050	2.2	2
8	The administration route of tumor-antigen-specific T-helper cells differentially modulates the tumor microenvironment and senescence. <i>Carcinogenesis</i> , <b>2019</b> , 40, 289-302	4.6	2
7	2-Nitroimidazole-Furanoside Derivatives for Hypoxia Imaging-Investigation of Nucleoside Transporter Interaction, F-Labeling and Preclinical PET Imaging. <i>Pharmaceuticals</i> , <b>2019</b> , 12,	5.2	1
6	Evaluation of positron emission tomographic tracers for imaging of papillomavirus-induced tumors in rabbits. <i>Molecular Imaging</i> , <b>2014</b> , 13,	3.7	1
5	Selective protection of murine cerebral G-proteins from inactivation by parenterally injected pertussis toxin. <i>Journal of Molecular Medicine</i> , <b>2020</b> , 98, 97-110	5.5	1
4	Molecular Imaging?. <i>Journal of Nuclear Medicine</i> , <b>2020</b> , 61, 1428-1434	8.9	1

- 3 Low-dose total body irradiation facilitates antitumoral Th1 immune responses. *Theranostics*, **2021**, 11, 7700-7714 12.1 1
- 2 Akt/PKB-sensitive proximal tubular glucose and phosphate transport. *FASEB Journal*, **2010**, 24, 606.5 0.9
- 1 Targeting RANKL for Immunotherapy of Multiple Myeloma. *Blood*, **2011**, 118, 2905-2905 2.2