

Robert R Flavell

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

2,423
citations

279798

23
h-index

223800

46
g-index

77
all docs

77
docs citations

77
times ranked

3549
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of ⁶⁸ Ga-PSMA-11 PET Accuracy in Localizing Recurrent Prostate Cancer. <i>JAMA Oncology</i> , 2019, 5, 856.	7.1	493
2	A Deep Learning Model to Predict a Diagnosis of Alzheimer Disease by Using ¹⁸ F-FDG PET of the Brain. <i>Radiology</i> , 2019, 290, 456-464.	7.3	413
3	Expressed Protein Ligation (EPL) in the Study of Signal Transduction, Ion Conduction, And Chromatin Biology. <i>Accounts of Chemical Research</i> , 2009, 42, 107-116.	15.6	110
4	Impact of ⁶⁸ Ga-PSMA-11 PET on the Management of Recurrent Prostate Cancer in a Prospective Single-Arm Clinical Trial. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1793-1799.	5.0	74
5	Site-Specific ¹⁸ F-Labeling of the Protein Hormone Leptin Using a General Two-Step Ligation Procedure. <i>Journal of the American Chemical Society</i> , 2008, 130, 9106-9112.	13.7	67
6	Imaging Active Infection in vivo Using D-Amino Acid Derived PET Radiotracers. <i>Scientific Reports</i> , 2017, 7, 7903.	3.3	58
7	Efficient Semisynthesis of a Tetrakisphosphorylated Analogue of the Type I TGF β Receptor. <i>Organic Letters</i> , 2002, 4, 165-168.	4.6	55
8	PET Imaging of Leptin Biodistribution and Metabolism in Rodents and Primates. <i>Cell Metabolism</i> , 2009, 10, 148-159.	16.2	52
9	Sensing Living Bacteria <i>in Vivo</i> Using ¹¹ C-Alanine-Derived ¹¹ C Radiotracers. <i>ACS Central Science</i> , 2020, 6, 155-165.	11.3	48
10	Nuclear Imaging of Bacterial Infection: The State of the Art and Future Directions. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1708-1716.	5.0	45
11	[¹¹ C]Ascorbic and [¹¹ C]dehydroascorbic acid, an endogenous redox pair for sensing reactive oxygen species using positron emission tomography. <i>Chemical Communications</i> , 2016, 52, 4888-4890.	4.1	43
12	Spatiotemporal pH Heterogeneity as a Promoter of Cancer Progression and Therapeutic Resistance. <i>Cancers</i> , 2019, 11, 1026.	3.7	42
13	The Role of Lactate Metabolism in Prostate Cancer Progression and Metastases Revealed by Dual-Agent Hyperpolarized ¹³ C MRSI. <i>Cancers</i> , 2019, 11, 257.	3.7	41
14	Caged [¹⁸ F]FDG Glycosylamines for Imaging Acidic Tumor Microenvironments Using Positron Emission Tomography. <i>Bioconjugate Chemistry</i> , 2016, 27, 170-178.	3.6	38
15	Synthesis and Initial Biological Evaluation of Boron-Containing Prostate-Specific Membrane Antigen Ligands for Treatment of Prostate Cancer Using Boron Neutron Capture Therapy. <i>Molecular Pharmaceutics</i> , 2019, 16, 3831-3841.	4.6	36
16	Application of Good's buffers to pH imaging using hyperpolarized ¹³ C MRI. <i>Chemical Communications</i> , 2015, 51, 14119-14122.	4.1	35
17	Phase I Study of CTT1057, an ¹⁸ F-Labeled Imaging Agent with Phosphoramidate Core Targeting Prostate-Specific Membrane Antigen in Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2019, 60, 910-916.	5.0	35
18	Dynamic nuclear polarization of biocompatible ¹³ C-enriched carbonates for in vivo pH imaging. <i>Chemical Communications</i> , 2016, 52, 3030-3033.	4.1	33

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19	Malignancies with Low Fluorodeoxyglucose Uptake at PET/CT: Pitfalls and Prognostic Importance: Resident and Fellow Education Feature. Radiographics, 2016, 36, 293-294.	3.3	32
20	High Enantiomeric Excess In-Loop Synthesis of d -[methyl- ^{11}C]Methionine for Use as a Diagnostic Positron Emission Tomography Radiotracer in Bacterial Infection. ACS Infectious Diseases, 2020, 6, 43-49.	3.8	31
21	A reactivity-based ^{18}F FDG probe for in vivo formaldehyde imaging using positron emission tomography. Chemical Science, 2016, 7, 5503-5507.	7.4	27
22	Late-stage deuteration of ^{13}C -enriched substrates for T_1 prolongation in hyperpolarized ^{13}C MRI. Chemical Communications, 2018, 54, 5233-5236.	4.1	26
23	Dosimetry in radionuclide therapy: the clinical role of measuring radiation dose. Lancet Oncology, The, 2022, 23, e75-e87.	10.7	26
24	Direct assessment of renal mitochondrial redox state using hyperpolarized ^{13}C acetate. Magnetic Resonance in Medicine, 2018, 79, 1862-1869.	3.0	25
25	Incidental Detection of Head and Neck Squamous Cell Carcinoma on ^{68}Ga -PSMA-11 PET/CT. Clinical Nuclear Medicine, 2017, 42, e218-e220.	1.3	24
26	Dicarboxylic acids as pH sensors for hyperpolarized ^{13}C magnetic resonance spectroscopic imaging. Analyst, The, 2017, 142, 1429-1433.	3.5	23
27	Gallium-68 prostate-specific membrane antigen (^{68}Ga)-PSMA-11 PET for imaging of thyroid cancer: a feasibility study. EJNMMI Research, 2020, 10, 128.	2.5	22
28	Imaging glutathione depletion in the rat brain using ascorbate-derived hyperpolarized MR and PET probes. Scientific Reports, 2018, 8, 7928.	3.3	20
29	Synthesis of N-trifluoromethyl amides from carboxylic acids. Chem, 2021, 7, 2245-2255.	11.7	20
30	First-in-human immunoPET imaging of HIV-1 infection using ^{89}Zr -labeled VRC01 broadly neutralizing antibody. Nature Communications, 2022, 13, 1219.	12.8	20
31	Intertumoral Heterogeneity of ^{18}F -FDG and ^{68}Ga -PSMA Uptake in Prostate Cancer Pulmonary Metastases. Clinical Nuclear Medicine, 2019, 44, e28-e32.	1.3	19
32	Single-Center Prospective Evaluation of ^{68}Ga -PSMA-11 PET in Biochemical Recurrence of Prostate Cancer. American Journal of Roentgenology, 2019, 213, 266-274.	2.2	18
33	Small Molecule Sensors Targeting the Bacterial Cell Wall. ACS Infectious Diseases, 2020, 6, 1587-1598.	3.8	18
34	Molecular Imaging of Prostate Cancer Targeting CD46 Using ImmunoPET. Clinical Cancer Research, 2021, 27, 1305-1315.	7.0	18
35	Quantitative and Qualitative Improvement of Low-Count ^{68}Ga Citrate and $^{90\text{Y}}$ Microspheres PET Image Reconstructions Using Block Sequential Regularized Expectation Maximization Algorithm. Molecular Imaging and Biology, 2020, 22, 208-216.	2.6	16
36	Hyperpolarized in vivo pH imaging reveals grade-dependent acidification in prostate cancer. Oncotarget, 2019, 10, 6096-6110.	1.8	16

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37	Imaging joint infections using D-methyl-11C-methionine PET/MRI: initial experience in humans. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 3761-3771.	6.4	16
38	The Incidence of Pulmonary Embolism and Associated FDG-PET Findings in IV Contrast-Enhanced PET/CT. <i>Academic Radiology</i> , 2014, 21, 718-725.	2.5	15
39	Factors Predicting Metastatic Disease in ⁶⁸ Ga-PSMA-11 PETâ€“Positive Osseous Lesions in Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1779-1785.	5.0	15
40	Use of 18F-FDG PET/CT as an Initial Staging Procedure for Stage IIâ€“III Breast Cancer: A Multicenter Value Analysis. <i>Journal of the National Comprehensive Cancer Network: JNCCN</i> , 2020, 18, 1510-1517.	4.9	15
41	Incidentally Detected Oropharyngeal Squamous Cell Carcinoma on 18F-Fluciclovine PET/CT. <i>Clinical Nuclear Medicine</i> , 2019, 44, e367-e369.	1.3	14
42	Heterogeneous Uptake of 18F-FDG and ⁶⁸ Ga-PSMA-11 in Hepatocellular Carcinoma. <i>Clinical Nuclear Medicine</i> , 2019, 44, e133-e135.	1.3	13
43	Abnormal findings on multiparametric prostate magnetic resonance imaging predict subsequent biopsy upgrade in patients with low risk prostate cancer managed with active surveillance. <i>Abdominal Imaging</i> , 2014, 39, 1027-1035.	2.0	12
44	Detection of Metastatic Meningioma to the Liver Using ⁶⁸ Ga-DOTA-Octreotate PET/CT. <i>Clinical Nuclear Medicine</i> , 2018, 43, e338-e340.	1.3	12
45	Deuterium Metabolic Imagingâ€“Rediscovery of a Spectroscopic Tool. <i>Metabolites</i> , 2021, 11, 570.	2.9	12
46	An Analysis of Isoclonal Antibody Formats Suggests a Role for Measuring PD-L1 with Low Molecular Weight PET Radiotracers. <i>Molecular Imaging and Biology</i> , 2020, 22, 1553-1561.	2.6	11
47	PET/CT in Surgical Planning for Head and Neck Cancer. <i>Seminars in Nuclear Medicine</i> , 2021, 51, 50-58.	4.6	11
48	Evaluation of primary breast cancers using dedicated breast PET and whole-body PET. <i>Scientific Reports</i> , 2020, 10, 21930.	3.3	11
49	Development of specialized magnetic resonance acquisition techniques for human hyperpolarized [¹³ C₂]urea + [¹³ C₁]pyruvate simultaneous perfusion and metabolic imaging. <i>Magnetic Resonance in Medicine</i> . 2022. 88. 1039-1054.	3.0	11
50	Somatostatin receptor PET/MRI for the evaluation of neuroendocrine tumors. <i>Clinical and Translational Imaging</i> , 2017, 5, 63-69.	2.1	10
51	Discordant Findings on 18F-NaF and ^{99m} Tc-HDP Bone Scans in a Patient With ATTR Cardiac Amyloidosis. <i>Clinical Nuclear Medicine</i> , 2018, 43, e89-e92.	1.3	10
52	Cyclic ⁶⁸ Ga-Labeled Peptides for Specific Detection of Human Angiotensin-Converting Enzyme 2. <i>Journal of Nuclear Medicine</i> , 2021, 62, 1631-1637.	5.0	10
53	Predictors of pathologic outcome of focal FDG uptake in the parotid gland identified on whole-body FDG PET imaging. <i>Clinical Imaging</i> , 2015, 39, 1073-1079.	1.5	9
54	Imaging 6-Phosphogluconolactonase Activity in Brain Tumors In Vivo Using Hyperpolarized \hat{c} -[1- ¹³ C]gluconolactone. <i>Frontiers in Oncology</i> , 2021, 11, 589570.	2.8	9

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55	Synthesis and Preliminary Biological Assessment of Carborane-Loaded Theranostic Nanoparticles to Target Prostate-Specific Membrane Antigen. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54739-54752.	8.0	9
56	Amino Acid-Derived Sensors for Specific Zn ²⁺ Detection Using Hyperpolarized ¹³ C Magnetic Resonance Spectroscopy. <i>Chemistry - A European Journal</i> , 2019, 25, 11842-11846.	3.3	8
57	Using bidirectional chemical exchange for improved hyperpolarized [¹³ C]bicarbonate pH imaging. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 959-972.	3.0	8
58	Understanding Response to Immunotherapy Using Standard of Care and Experimental Imaging Approaches. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 108, 242-257.	0.8	8
59	Detecting Pulmonary Nodules in Lung Cancer Patients Using Whole Body FDG PET/CT, High-resolution Lung Reformat of FDG PET/CT, or Diagnostic Breath Hold Chest CT. <i>Academic Radiology</i> , 2016, 23, 1123-1129.	2.5	7
60	Tumor Microenvironment Biosensors for Hyperpolarized Carbon-13 Magnetic Resonance Spectroscopy. <i>Molecular Imaging and Biology</i> , 2021, 23, 323-334.	2.6	7
61	Non-Iodine-Avid Disease Is Highly Prevalent in Distant Metastatic Differentiated Thyroid Cancer With Papillary Histology. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, e3206-e3216.	3.6	7
62	Abnormal 18F-FDG and 82Rb PET Findings in Chagas Heart Disease. <i>Clinical Nuclear Medicine</i> , 2017, 42, e265-e268.	1.3	6
63	Cardiac Fibroma. <i>Clinical Nuclear Medicine</i> , 2018, 43, e56-e58.	1.3	6
64	Scatter Artifact with Ga-68-PSMA-11 PET: Severity Reduced With Furosemide Diuresis and Improved Scatter Correction. <i>Molecular Imaging</i> , 2018, 17, 153601211881174.	1.4	6
65	Arabinofuranose-derived positron emission tomography radiotracers for detection of pathogenic microorganisms. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2020, 63, 231-239.	1.0	5
66	68Ga-PSMA-11 PET/MRI: determining ideal acquisition times to reduce noise and increase image quality. <i>EJNMMI Physics</i> , 2020, 7, 54.	2.7	3
67	The Synthesis and Structural Requirements for Measuring Glucocorticoid Receptor Expression In Vivo with (±)- ¹¹ C-YJH08 PET. <i>Journal of Nuclear Medicine</i> , 2021, 62, 723-731.	5.0	2
68	Impact of 68Ga-PSMA-11 PET on the management of biochemically recurrent prostate cancer in a prospective single-arm clinical trial. <i>Journal of Clinical Oncology</i> , 2020, 38, 292-292.	1.6	2
69	Prostate cancer research in the 21st century; report from the 2021 Coffey-Holden prostate cancer academy meeting. <i>Prostate</i> , 2021, , .	2.3	2
70	Effect of Time-of-Flight and Regularized Reconstructions on Quantitative Measurements and Qualitative Assessments in Newly Diagnosed Prostate Cancer With ¹⁸ F-Fluorocholine Dual Time Point PET/MRI. <i>Molecular Imaging</i> , 2017, 16, 153601211773670.	1.4	1
71	Failure of iodine uptake in microscopic pulmonary metastases after recombinant human thyroid-stimulating hormone stimulation. <i>World Journal of Nuclear Medicine</i> , 2020, 19, 61-64.	0.5	1
72	Recent Developments in Combined PET/MRI. <i>Current Radiology Reports</i> , 2016, 4, 1.	1.4	0

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73	Abnormal pulmonary ¹⁸ F-florbetapir uptake in a patient evaluated for recurrent cardiac amyloidosis following orthotopic heart transplant. <i>Journal of Nuclear Cardiology</i> , 2018, 25, 1865-1868.	2.1	0
74	Molecular Imaging of Renal Malignancy: A Review. <i>Current Radiology Reports</i> , 2019, 7, 1.	1.4	0
75	Management of Challenging Radioiodine Treatment Protocols: A Case Series and Review of the Literature. <i>Journal of Nuclear Medicine Technology</i> , 2021, 49, 180-185.	0.8	0
76	Deuterium Metabolic Imaging-Rediscovery of a Spectroscopic Tool. <i>Metabolites</i> , 2021, 11, .	2.9	0
77	Imaging of solid tumors using ⁶⁸ Ga-FAP-2286.. <i>Journal of Clinical Oncology</i> , 2022, 40, 3059-3059.	1.6	0