

# Umar Mahmood

## List of Publications by Year in descending order

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Version: 2024-02-01

94  
papers

8,324  
citations

156536

32  
h-index

53065

89  
g-index

96  
all docs

96  
docs citations

96  
times ranked

14105  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperpolarized [1-13C]Pyruvate Magnetic Resonance Spectroscopic Imaging for Evaluation of Early Response to Tyrosine Kinase Inhibition Therapy in Gastric Cancer. <i>Molecular Imaging and Biology</i> , 2022, , 1.	1.3	4
2	Immune Checkpoint Inhibitor-Mediated Cancer Theranostics with Radiolabeled Anti-Granzyme B Peptide. <i>Pharmaceutics</i> , 2022, 14, 1460.	2.0	2
3	Improving staging of rectal cancer in the pelvis: the role of PET/MRI. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 1235-1245.	3.3	40
4	An international expert opinion statement on the utility of PET/MR for imaging of skeletal metastases. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 1522-1537.	3.3	6
5	RSNA International Trends: A Global Perspective on the COVID-19 Pandemic and Radiology in Late 2020. <i>Radiology</i> , 2021, 299, E193-E203.	3.6	23
6	Electromagnetic Tracking and Optical Molecular Imaging Guidance for Liver Biopsy and Point-of-Care Tissue Assessment in Phantom and Woodchuck Hepatocellular Carcinoma. <i>CardioVascular and Interventional Radiology</i> , 2021, 44, 1439-1447.	0.9	2
7	HER3 PET Imaging Identifies Dynamic Changes in HER3 in Response to HER2 Inhibition with Lapatinib. <i>Molecular Imaging and Biology</i> , 2021, 23, 930-940.	1.3	2
8	Abstract 1309: HSV1 oncolytic therapy for breast cancer meningeal metastases. , 2021, , .		0
9	Non-invasive Detection of Immunotherapy-Induced Adverse Events. <i>Clinical Cancer Research</i> , 2021, 27, 5353-5364.	3.2	13
10	Evaluation of the Diagnostic Performance of Positron Emission Tomography/Magnetic Resonance for the Diagnosis of Liver Metastases. <i>Investigative Radiology</i> , 2021, 56, 621-628.	3.5	15
11	PET/MRI assessment of lung nodules in primary abdominal malignancies: sensitivity and outcome analysis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 1976-1986.	3.3	25
12	Management implications of fluorodeoxyglucose positron emission tomography/magnetic resonance in untreated intrahepatic cholangiocarcinoma. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 1871-1884.	3.3	32
13	HER3 Differentiates Basal From Claudin Type Triple Negative Breast Cancer and Contributes to Drug and Microenvironmental Induced Resistance. <i>Frontiers in Oncology</i> , 2020, 10, 554704.	1.3	6
14	A Phase II Trial of Cabozantinib in Hormone Receptor-Positive Breast Cancer with Bone Metastases. <i>Oncologist</i> , 2020, 25, 652-660.	1.9	11
15	Granzyme B PET imaging of immune-mediated tumor killing as a tool for understanding immunotherapy response. , 2020, 8, e000291.		32
16	A phase II trial of cabozantinib in hormone receptor-positive breast cancer with bone metastases.. <i>Journal of Clinical Oncology</i> , 2020, 38, 1062-1062.	0.8	0
17	Clinical impact of PET/MR in treated colorectal cancer patients. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2260-2269.	3.3	28
18	Neuroepigenetic signatures of age and sex in the living human brain. <i>Nature Communications</i> , 2019, 10, 2945.	5.8	36

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19	Inhibition of de novo lipogenesis targets androgen receptor signaling in castration-resistant prostate cancer. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 631-640.	3.3	198
20	The Effectiveness of Checkpoint Inhibitor Combinations and Administration Timing Can Be Measured by Granzyme B PET Imaging. Clinical Cancer Research, 2019, 25, 1196-1205.	3.2	85
21	The Impact of Positron Emission Tomography with <sup>18</sup> F-Fluciclovine on the Treatment of Biochemical Recurrence of Prostate Cancer: Results from the LOCATE Trial. Journal of Urology, 2019, 201, 322-331.	0.2	113
22	Optical imaging with a novel cathepsin-activatable probe for enhanced detection of colorectal cancer. American Journal of Nuclear Medicine and Molecular Imaging, 2019, 9, 230-242.	1.0	5
23	Radiotheranostics in Cancer Diagnosis and Management. Radiology, 2018, 286, 388-400.	3.6	91
24	What Can Be Done to Improve Research Biopsy Quality in Oncology Clinical Trials?. Journal of Oncology Practice, 2018, 14, e722-e728.	2.5	31
25	C11 Methionine PET (MET-PET) Imaging of Glioblastoma for Detecting Postoperative Residual Disease and Response to Chemoradiation Therapy. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1024-1028.	0.4	18
26	Specific <sup>18</sup> F-FDHT Accumulation in Human Prostate Cancer Xenograft Murine Models Is Facilitated by Prebinding to Sex Hormone- $\alpha$ Binding Globulin. Journal of Nuclear Medicine, 2018, 59, 1538-1543.	2.8	5
27	Somatostatin receptor type 2 as a radiotheranostic PET reporter gene for oncologic interventions. Theranostics, 2018, 8, 3380-3391.	4.6	11
28	Comparison of the clinical performance of upper abdominal PET/DCE-MRI with and without concurrent respiratory motion correction (MoCo). European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 2147-2154.	3.3	28
29	The Role of Imaging in Prostate Cancer Care Pathway: Novel Approaches to Urologic Management Challenges Along 10 Imaging Touch Points. Urology, 2018, 119, 23-31.	0.5	6
30	Lower Gastrointestinal Tract Applications of PET/Computed Tomography and PET/MR Imaging. Radiologic Clinics of North America, 2018, 56, 821-834.	0.9	7
31	Phage Display Selection, In Vitro Characterization, and Correlative PET Imaging of a Novel HER3 Peptide. Molecular Imaging and Biology, 2018, 20, 300-308.	1.3	18
32	Diagnostic performance of PET/MR in the evaluation of active inflammation in Crohn disease. American Journal of Nuclear Medicine and Molecular Imaging, 2018, 8, 62-69.	1.0	12
33	PET/MR in invasive ductal breast cancer: correlation between imaging markers and histological phenotype. British Journal of Cancer, 2017, 116, 893-902.	2.9	52
34	Granzyme B PET Imaging as a Predictive Biomarker of Immunotherapy Response. Cancer Research, 2017, 77, 2318-2327.	0.4	235
35	Colorectal cancer staging: comparison of whole-body PET/CT and PET/MR. Abdominal Radiology, 2017, 42, 1141-1151.	1.0	52
36	<sup>18</sup> F-Fluoroestradiol PET/CT Measurement of Estrogen Receptor Suppression during a Phase I Trial of the Novel Estrogen Receptor-Targeted Therapeutic GDC-0810: Using an Imaging Biomarker to Guide Drug Dosage in Subsequent Trials. Clinical Cancer Research, 2017, 23, 3053-3060.	3.2	66

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37	Staging performance of whole-body DWI, PET/CT and PET/MRI in invasive ductal carcinoma of the breast. <i>International Journal of Oncology</i> , 2017, 51, 281-288.	1.4	52
38	An overview of PET/MR, focused on clinical applications. <i>Abdominal Radiology</i> , 2017, 42, 631-644.	1.0	21
39	A phase one, single-dose, open-label, clinical safety and PET/MR imaging study of Ga-DOTATOC in healthy volunteers. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2017, 7, 53-62.	1.0	2
40	Pilot Clinical Trial of Indocyanine Green Fluorescence-Augmented Colonoscopy in High Risk Patients. <i>Gastroenterology Research and Practice</i> , 2016, 2016, 1-7.	0.7	4
41	Optical Imaging of Mesenchymal Epithelial Transition Factor (MET) for Enhanced Detection and Characterization of Primary and Metastatic Hepatic Tumors. <i>Theranostics</i> , 2016, 6, 2028-2038.	4.6	15
42	Differential Receptor Tyrosine Kinase PET Imaging for Therapeutic Guidance. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1413-1419.	2.8	28
43	Prostate Cancer Imaging and Therapy: Potential Role of Nanoparticles. <i>Journal of Nuclear Medicine</i> , 2016, 57, 105S-110S.	2.8	8
44	Quantitative CD3 PET Imaging Predicts Tumor Growth Response to Anti-CTLA-4 Therapy. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1607-1611.	2.8	105
45	Tumor Hypoxia Response After Targeted Therapy in EGFR-Mutant Non-Small Cell Lung Cancer. <i>Technology in Cancer Research and Treatment</i> , 2016, 15, 234-242.	0.8	17
46	Design, construction and testing of a low-cost automated (68)Gallium-labeling synthesis unit for clinical use. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 6, 176-84.	1.0	6
47	Fluorescence multi-scale endoscopy and its applications in the study and diagnosis of gastro-intestinal diseases: set-up design and software implementation. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
48	Pharmacodynamic Imaging Guides Dosing of a Selective Estrogen Receptor Degradar. <i>Clinical Cancer Research</i> , 2015, 21, 1340-1347.	3.2	32
49	Prospective Trial with Optical Molecular Imaging for Percutaneous Interventions in Focal Hepatic Lesions. <i>Radiology</i> , 2015, 274, 917-926.	3.6	23
50	Imaging of Secreted Extracellular Periostin, an Important Marker of Invasion in the Tumor Microenvironment in Esophageal Cancer. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1246-1251.	2.8	17
51	PET imaging of glioblastoma multiforme EGFR expression for therapeutic decision guidance. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 5, 379-89.	1.0	10
52	Fluorescent Nanoparticle Imaging Allows Noninvasive Evaluation of Immune Cell Modulation in Esophageal Dysplasia. <i>Molecular Imaging</i> , 2014, 13, 7290.2014.00003.	0.7	12
53	An EGFR Targeted PET Imaging Probe for the Detection of Colonic Adenocarcinomas in the Setting of Colitis. <i>Theranostics</i> , 2014, 4, 893-903.	4.6	29
54	Interventional Optical Molecular Imaging Guidance during Percutaneous Biopsy. <i>Radiology</i> , 2014, 271, 770-777.	3.6	22

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55	A novel direct activator of <scp>AMPK</scp> inhibits prostate cancer growth by blocking lipogenesis. EMBO Molecular Medicine, 2014, 6, 519-538.	3.3	168
56	Denervation protects limbs from inflammatory arthritis via an impact on the microvasculature. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11419-11424.	3.3	40
57	Molecular Imaging with Bioluminescence and PET Reveals Viral Oncolysis Kinetics and Tumor Viability. Cancer Research, 2014, 74, 4111-4121.	0.4	11
58	Depletion of Carcinoma-Associated Fibroblasts and Fibrosis Induces Immunosuppression and Accelerates Pancreas Cancer with Reduced Survival. Cancer Cell, 2014, 25, 719-734.	7.7	1,892
59	A container closure system that allows for greater recovery of radiolabeled peptide compared to the standard borosilicate glass system. Applied Radiation and Isotopes, 2013, 80, 99-102.	0.7	5
60	Optical Imaging of Periostin Enables Early Endoscopic Detection and Characterization of Esophageal Cancer in Mice. Gastroenterology, 2013, 144, 294-297.	0.6	28
61	Free Somatostatin Receptor Fraction Predicts the Antiproliferative Effect of Octreotide in a Neuroendocrine Tumor Model: Implications for Dose Optimization. Cancer Research, 2013, 73, 6865-6873.	0.4	19
62	Metforminâ€™an Adjunct Antineoplastic Therapyâ€™Divergently Modulates Tumor Metabolism and Proliferation, Interfering with Early Response Prediction by <sup>18</sup>F-FDG PET Imaging. Journal of Nuclear Medicine, 2013, 54, 252-258.	2.8	23
63	Therapeutic Efficacy and Fate of Bimodal Engineered Stem Cells in Malignant Brain Tumors. Stem Cells, 2013, 31, 1706-1714.	1.4	89
64	Baseline total lesion glycolysis measured with (18)F-FDG PET/CT as a predictor of progression-free survival in diffuse large B-cell lymphoma: a pilot study. American Journal of Nuclear Medicine and Molecular Imaging, 2013, 3, 272-81.	1.0	49
65	Optical Imaging with a Cathepsin B Activated Probe for the Enhanced Detection of Esophageal Adenocarcinoma by Dual Channel Fluorescent Upper GI Endoscopy. Theranostics, 2012, 2, 227-234.	4.6	43
66	Science to Practice: Can a Targeted Nanoparticle Be Used to Image Autoimmune Nephritis?. Radiology, 2010, 255, 309-310.	3.6	1
67	In vivo optical molecular imaging of matrix metalloproteinase activity in abdominal aortic aneurysms correlates with treatment effects on growth rate. Atherosclerosis, 2010, 212, 181-187.	0.4	51
68	Quantitative Endovascular Fluorescence-based Molecular Imaging through Blood of Arterial Wall Inflammation. Radiology, 2009, 251, 813-821.	3.6	17
69	Science to Practice: Can an Enzyme-sensitive MR Contrast Agent Be Used to Image Inflammation in Aneurysms?. Radiology, 2009, 252, 627-628.	3.6	5
70	Improved detection of ovarian cancer metastases by intraoperative quantitative fluorescence protease imaging in a pre-clinical model. Gynecologic Oncology, 2009, 112, 616-622.	0.6	74
71	Abrogation of antibodyâ€™induced arthritis in mice by a selfâ€™activating viridin prodrug and association with impaired neutrophil and endothelial cell function. Arthritis and Rheumatism, 2009, 60, 2314-2324.	6.7	10
72	Quantitative Real-time Catheter-based Fluorescence Molecular Imaging in Mice. Radiology, 2007, 245, 523-531.	3.6	43

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73	Inflammatory arthritis can be reined in by CpG-induced DCâ€“NK cell cross talk. Journal of Experimental Medicine, 2007, 204, 1911-1922.	4.2	84
74	Current and Future Imaging Paradigms in Colorectal Cancer. Seminars in Colon and Rectal Surgery, 2007, 18, 132-138.	0.2	2
75	Molecular Imaging in Gastrointestinal Disease. Gastroenterology, 2007, 132, 11-14.	0.6	18
76	Real-Time Multichannel Imaging Framework for Endoscopy, Catheters, and Fixed Geometry Intraoperative Systems. Molecular Imaging, 2007, 6, 7290.2007.00012.	0.7	17
77	Real-time multichannel imaging framework for endoscopy, catheters, and fixed geometry intraoperative systems. Molecular Imaging, 2007, 6, 147-55.	0.7	14
78	Both p16Ink4a and the p19Arf-p53 pathway constrain progression of pancreatic adenocarcinoma in the mouse. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5947-5952.	3.3	537
79	Particularities of the vasculature can promote the organ specificity of autoimmune attack. Nature Immunology, 2006, 7, 284-292.	7.0	171
80	Near infrared thoracoscopy of tumoral protease activity for improved detection of peripheral lung cancer. International Journal of Cancer, 2006, 118, 2672-2677.	2.3	57
81	Can a Clinically Used Chemoembolization Vehicle Improve Transgene Delivery?. Radiology, 2006, 240, 619-620.	3.6	1
82	Molecular MR Imaging Probes. Proceedings of the IEEE, 2005, 93, 800-808.	16.4	7
83	Methotrexate-Induced Accumulation of Fluorescent Annexin V in Collagen-Induced Arthritis. Molecular Imaging, 2005, 4, 153535002005041.	0.7	22
84	Can MR Imaging Be Used to Track Delivery of Intravascularly Administered Stem Cells?. Radiology, 2004, 233, 625-626.	3.6	9
85	Catheter-based in Vivo Imaging of Enzyme Activity and Gene Expression: Feasibility Study in Mice. Radiology, 2004, 231, 659-666.	3.6	62
86	Miniaturized Multichannel Near Infrared Endoscope for Mouse Imaging. Molecular Imaging, 2003, 2, 153535002003031.	0.7	6
87	Pan and Sentinel Lymph Node Visualization Using a Near-Infrared Fluorescent Probe. Molecular Imaging, 2003, 2, 153535002003021.	0.7	6
88	Miniaturized Multichannel Near Infrared Endoscope for Mouse Imaging. Molecular Imaging, 2003, 2, 350-357.	0.7	71
89	Near-infrared optical imaging of proteases in cancer. Molecular Cancer Therapeutics, 2003, 2, 489-96.	1.9	207
90	Feasibility of in Vivo Multichannel Optical Imaging of Gene Expression: Experimental Study in Mice. Radiology, 2002, 224, 446-451.	3.6	328

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91	Arthritis Critically Dependent on Innate Immune System Players. <i>Immunity</i> , 2002, 16, 157-168.	6.6	631
92	Coded Aperture Nuclear Scintigraphy: A Novel Small Animal Imaging Technique. <i>Molecular Imaging</i> , 2002, 1, 153535002002213.	0.7	3
93	In vivo imaging of tumors with protease-activated near-infrared fluorescent probes. <i>Nature Biotechnology</i> , 1999, 17, 375-378.	9.4	1,578
94	Preparation of a Cathepsin D Sensitive Near-Infrared Fluorescence Probe for Imaging. <i>Bioconjugate Chemistry</i> , 1999, 10, 892-896.	1.8	212