

Mehran M Sadeghi

List of Publications by Year in descending order

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74
papers

2,491
citations

218677

26
h-index

197818

49
g-index

75
all docs

75
docs citations

75
times ranked

3047
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcific Aortic Valve Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 2387-2393.	2.4	261
2	Noninvasive imaging of myocardial angiogenesis following experimental myocardial infarction. <i>Journal of Clinical Investigation</i> , 2004, 113, 1684-1691.	8.2	208
3	Noninvasive Imaging of Angiogenesis With a ^{99m} Tc-Labeled Peptide Targeted at $\alpha_5 \beta_3$ Integrin After Murine Hindlimb Ischemia. <i>Circulation</i> , 2005, 111, 3255-3260.	1.6	150
4	Noninvasive imaging of myocardial angiogenesis following experimental myocardial infarction. <i>Journal of Clinical Investigation</i> , 2004, 113, 1684-1691.	8.2	150
5	Multimodality Cardiovascular Molecular Imaging, Part II. <i>Circulation: Cardiovascular Imaging</i> , 2009, 2, 56-70.	2.6	130
6	Simvastatin Modulates Cytokine-Mediated Endothelial Cell Adhesion Molecule Induction: Involvement of an Inhibitory G Protein. <i>Journal of Immunology</i> , 2000, 165, 2712-2718.	0.8	126
7	Detection of Injury-Induced Vascular Remodeling by Targeting Activated $\alpha_5 \beta_3$ Integrin In Vivo. <i>Circulation</i> , 2004, 110, 84-90.	1.6	114
8	Molecular Imaging of Activated Matrix Metalloproteinases in Vascular Remodeling. <i>Circulation</i> , 2008, 118, 1953-1960.	1.6	94
9	Rac2 Modulates Atherosclerotic Calcification by Regulating Macrophage Interleukin-1 β Production. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 328-340.	2.4	91
10	Imaging Atherosclerosis and Vulnerable Plaque. <i>Journal of Nuclear Medicine</i> , 2010, 51, 51S-65S.	5.0	83
11	Atherosclerosis Plaque Heterogeneity and Response to Therapy Detected by In Vivo Molecular Imaging of Matrix Metalloproteinase Activation. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1795-1802.	5.0	61
12	VEGF Blockade Inhibits Lymphocyte Recruitment and Ameliorates Immune-Mediated Vascular Remodeling. <i>Circulation Research</i> , 2010, 107, 408-417.	4.5	55
13	Transmembrane protein ESDN promotes endothelial VEGF signaling and regulates angiogenesis. <i>Journal of Clinical Investigation</i> , 2013, 123, 5082-5097.	8.2	52
14	Genetic deficiency or pharmacological inhibition of miR-33 protects from kidney fibrosis. <i>JCI Insight</i> , 2019, 4, .	5.0	46
15	Molecular Imaging of Matrix Metalloproteinase Activation to Predict Murine Aneurysm Expansion In Vivo. <i>Journal of Nuclear Medicine</i> , 2010, 51, 1107-1115.	5.0	43
16	Characterization of Macrophage Polarization States Using Combined Measurement of 2-Deoxyglucose and Glutamine Accumulation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1840-1848.	2.4	41
17	Matrix metalloproteinase inhibitor, doxycycline and progression of calcific aortic valve disease in hyperlipidemic mice. <i>Scientific Reports</i> , 2016, 6, 32659.	3.3	40
18	Targeted imaging of hypoxia-induced integrin activation in myocardium early after infarction. <i>Journal of Applied Physiology</i> , 2008, 104, 1504-1512.	2.5	39

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19	Integrin-Targeted Imaging of Inflammation in Vascular Remodeling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 2820-2826.	2.4	37
20	18F-FDG PET and vascular inflammation: Time to refine the paradigm?. <i>Journal of Nuclear Cardiology</i> , 2015, 22, 319-324.	2.1	37
21	Multimodality and Molecular Imaging of Matrix Metalloproteinase Activation in Calcific Aortic Valve Disease. <i>Journal of Nuclear Medicine</i> , 2015, 56, 933-938.	5.0	36
22	Molecular imaging of plaque vulnerability. <i>Journal of Nuclear Cardiology</i> , 2014, 21, 1112-1128.	2.1	34
23	Imaging Vessel Wall Biology to Predict Outcome in Abdominal Aortic Aneurysm. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, .	2.6	31
24	Matrix Metalloproteinase Activation Predicts Amelioration of Remodeling After Dietary Modification in Injured Arteries. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 102-109.	2.4	27
25	Differential Regulation of Macrophage Glucose Metabolism by Macrophage Colony-stimulating Factor and Granulocyte-Macrophage Colony-stimulating Factor: Implications for ¹⁸ F FDG PET Imaging of Vessel Wall Inflammation. <i>Radiology</i> , 2017, 283, 87-97.	7.3	27
26	Emergence of molecular imaging of aortic aneurysm: Implications for risk stratification and management. <i>Journal of Nuclear Cardiology</i> , 2014, 21, 251-267.	2.1	26
27	Synthesis and in Vitro and in Vivo Evaluation of MMP-12 Selective Optical Probes. <i>Bioconjugate Chemistry</i> , 2016, 27, 2407-2417.	3.6	26
28	Matrix Metalloproteinase-Targeted Imaging of Lung Inflammation and Remodeling. <i>Journal of Nuclear Medicine</i> , 2017, 58, 138-143.	5.0	26
29	Targeted Suppression of miRNA-33 Using pHILIP Improves Atherosclerosis Regression. <i>Circulation Research</i> , 2022, 131, 77-90.	4.5	23
30	Lipid lowering and imaging protease activation in atherosclerosis. <i>Journal of Nuclear Cardiology</i> , 2014, 21, 319-328.	2.1	22
31	Preclinical Evaluation of RYM1, a Matrix Metalloproteinase-Targeted Tracer for Imaging Aneurysm. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1318-1323.	5.0	22
32	Endothelial and Smooth Muscle-derived Neuropilin-like Protein Regulates Platelet-derived Growth Factor Signaling in Human Vascular Smooth Muscle Cells by Modulating Receptor Ubiquitination. <i>Journal of Biological Chemistry</i> , 2009, 284, 29376-29382.	3.4	21
33	Optical imaging of MMP-12 active form in inflammation and aneurysm. <i>Scientific Reports</i> , 2016, 6, 38345.	3.3	20
34	¹⁸ F-Targeted detection of arteriopathy in transplanted human coronary arteries: an autoradiographic study. <i>FASEB Journal</i> , 2005, 19, 1857-1859.	0.5	19
35	Molecular Imaging of Vascular Endothelial Growth Factor Receptors in Graft Arteriosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1849-1855.	2.4	18
36	Multi-modality molecular imaging of aortic aneurysms. <i>Journal of Nuclear Cardiology</i> , 2017, 24, 1239-1245.	2.1	17

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37	PET-Based Imaging of Ischemic Heart Disease. <i>PET Clinics</i> , 2019, 14, 211-221.	3.0	16
38	Simultaneous optical coherence tomography imaging and beta particle detection. <i>Optics Letters</i> , 2003, 28, 1704.	3.3	15
39	The neuropilin-like protein ESDN regulates insulin signaling and sensitivity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1184-H1193.	3.2	15
40	Novel Molecular Imaging Approaches to Abdominal Aortic Aneurysm Risk Stratification. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, e003023.	2.6	15
41	Molecular Imaging of Angiogenesis and Vascular Remodeling in Cardiovascular Pathology. <i>Journal of Clinical Medicine</i> , 2016, 5, 57.	2.4	14
42	Prevalence and variability in reporting of clinically actionable incidental findings on attenuation-correction CT scans in a veteran population. <i>Journal of Nuclear Cardiology</i> , 2019, 26, 1688-1693.	2.1	14
43	Novel Matrix Metalloproteinase 12 Selective Radiotracers for Vascular Molecular Imaging. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 9743-9752.	6.4	13
44	Interferon- γ -Mediated Allograft Rejection Exacerbates Cardiovascular Disease of Hyperlipidemic Murine Transplant Recipients. <i>Circulation Research</i> , 2015, 117, 943-955.	4.5	12
45	Hydroxamate-Based Selective Macrophage Elastase (MMP-12) Inhibitors and Radiotracers for Molecular Imaging. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 15037-15049.	6.4	12
46	Characteristics and outcomes of small abdominal aortic aneurysm rupture in the American College of Surgeons National Surgical Quality Improvement Program database. <i>Journal of Vascular Surgery</i> , 2021, 74, 729-737.	1.1	12
47	FDG PET imaging of vascular inflammation in post-traumatic stress disorder: A pilot case-control study. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 688-694.	2.1	10
48	Hybrid positron detection and optical coherence tomography system: design, calibration, and experimental validation with rabbit atherosclerotic models. <i>Journal of Biomedical Optics</i> , 2005, 10, 044010.	2.6	9
49	The pathobiology of the vessel wall: Implications for imaging. <i>Journal of Nuclear Cardiology</i> , 2006, 13, 402-414.	2.1	9
50	Novel Arginine-containing Macrocyclic MMP Inhibitors: Synthesis, ^{99m}Tc -labeling, and Evaluation. <i>Scientific Reports</i> , 2018, 8, 11647.	3.3	9
51	Molecular imaging of calcific aortic valve disease. <i>Journal of Nuclear Cardiology</i> , 2018, 25, 1148-1155.	2.1	7
52	Radiotracers to Address Unmet Clinical Needs in Cardiovascular Imaging, Part 2: Inflammation, Fibrosis, Thrombosis, Calcification, and Amyloidosis Imaging. <i>Journal of Nuclear Medicine</i> , 2022, 63, 986-994.	5.0	7
53	Activated $\alpha_3\beta_1$ Integrin Targeting in Injury-Induced Vascular Remodeling. <i>Trends in Cardiovascular Medicine</i> , 2007, 17, 5-10.	4.9	6
54	Computed tomography imaging of macrophage phagocytic activity in abdominal aortic aneurysm. <i>Theranostics</i> , 2021, 11, 5876-5888.	10.0	6

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55	Differential BMP Signaling Mediates the Interplay Between Genetics and Leaflet Numbers in Aortic Valve Calcification. <i>JACC Basic To Translational Science</i> , 2022, 7, 333-345.	4.1	6
56	Accuracy of arterial [18F]-Fluorodeoxyglucose uptake quantification: A kinetic modeling study. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 1578-1581.	2.1	5
57	Hype or Hope. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e009591.	2.6	4
58	ESDN inhibits melanoma progression by blocking E-selectin expression in endothelial cells via STAT3. <i>Cancer Letters</i> , 2021, 510, 13-23.	7.2	4
59	Molecular imaging concepts. <i>Journal of Nuclear Cardiology</i> , 2016, 23, 271-273.	2.1	3
60	¹⁸ F-Sodium Fluoride Positron Emission Tomography and Plaque Calcification. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e008712.	2.6	3
61	2018 SNMMI Highlights Lecture: Cardiovascular Nuclear and Molecular Imaging. <i>Journal of Nuclear Medicine</i> , 2018, 59, 9N-15N.	5.0	3
62	Imaging of vascular biology in the heart. <i>Current Cardiovascular Imaging Reports</i> , 2009, 2, 40-49.	0.6	2
63	2019 SNMMI Highlights Lecture: Cardiovascular Nuclear and Molecular Imaging. <i>Journal of Nuclear Medicine</i> , 2019, 60, 7N-13N.	5.0	2
64	A New Tracer for Imaging Atherosclerosis. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	2.6	1
65	Molecular cardiovascular imaging is ready for prime time: almost there. <i>Journal of Nuclear Cardiology</i> , 2016, 23, 67-70.	2.1	1
66	¹⁸ F-Fluorodeoxyglucose PET imaging in aortic graft infection: many more questions than answers. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 1017-1020.	2.1	1
67	Cardiovascular Molecular Imaging. , 2015, , 601-636.		1
68	Radiotracers to Address Unmet Clinical Needs in Cardiovascular Imaging, Part 1: Technical Considerations and Perfusion and Neuronal Imaging.. <i>Journal of Nuclear Medicine</i> , 2022, 63, 649-658.	5.0	1
69	Cardiovascular molecular imaging: Expanding the paradigms and parameters. <i>Journal of Nuclear Cardiology</i> , 2015, 22, 401-402.	2.1	0
70	Reply to letter to the editor regarding "prevalence and variability in reporting of clinically actionable incidental findings on attenuation-correction CT scans in a veteran population". <i>Journal of Nuclear Cardiology</i> , 2020, 27, 1054.	2.1	0
71	Advancing the mission of cardiovascular molecular imaging. <i>Journal of Nuclear Cardiology</i> , 2023, 30, 2266-2267.	2.1	0
72	Molecular Imaging of Vascular Inflammation, Atherosclerosis, and Thrombosis. , 2012, , 129-166.		0

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73	Applications of Molecular Small-Animal Imaging in Cardiology. , 2014, , 547-584.		0
74	2020 SNMMI Highlights Lecture: Cardiovascular Nuclear and Molecular Imaging. Journal of Nuclear Medicine, 2020, 61, 15N-22N.	5.0	0