Claudia Calcagno

List of Publications by Year
in descending order

58 papers	3,244 citations	218677 26 h-index	155660 55 g-index
61 all docs	61 docs citations	61 times ranked	5617 citing authors

#	Article	IF	Citations
1	Systematically evaluating DOTATATE and FDG as PET immuno-imaging tracers of cardiovascular inflammation. Scientific Reports, 2022, 12, 6185.	3.3	14
2	Hybrid FDG-PET/MR or FDG-PET/CT to Detect Disease Activity in Patients With Persisting Arrhythmias After Myocarditis. JACC: Cardiovascular Imaging, 2021, 14, 288-292.	5.3	22
3	An albumin-binding Gd-HPDO3A contrast agent for improved intravascular retention. Inorganic Chemistry Frontiers, 2021, 8, 4014-4025.	6.0	4
4	USPIO-Enhanced CMR of MyocardialÂInflammation. JACC: Cardiovascular Imaging, 2021, 14, 377-378.	5.3	4
5	A modular approach toward producing nanotherapeutics targeting the innate immune system. Science Advances, 2021, 7, .	10.3	20
6	Quantification of Mouse Heart Left Ventricular Function, Myocardial Strain, and Hemodynamic Forces by Cardiovascular Magnetic Resonance Imaging. Journal of Visualized Experiments, 2021, , .	0.3	2
7	Imaging-guided nanomedicine development. Current Opinion in Chemical Biology, 2021, 63, 78-85.	6.1	13
8	Factors Associated With Longitudinal Psychological and Physiological Stress in Health Care Workers During the COVID-19 Pandemic: Observational Study Using Apple Watch Data. Journal of Medical Internet Research, 2021, 23, e31295.	4.3	15
9	Multimodal Positron Emission Tomography Imaging to Quantify Uptake of ⁸⁹Zr-Labeled Liposomes in the Atherosclerotic Vessel Wall. Bioconjugate Chemistry, 2020, 31, 360-368.	3.6	22
10	An iterative sparse deconvolution method for simultaneous multicolor ¹⁹Fâ€MRI of multiple contrast agents. Magnetic Resonance in Medicine, 2020, 83, 228-239.	3.0	23
11	Hybrid PET- and MR-driven attenuation correction for enhanced 18F-NaF and 18F-FDG quantification in cardiovascular PET/MR imaging. Journal of Nuclear Cardiology, 2020, 27, 1126-1141.	2.1	17
12	Imaging Cardiovascular and Lung Macrophages With the Positron Emission Tomography Sensor ⁶⁴ Cu-Macrin in Mice, Rabbits, and Pigs. Circulation: Cardiovascular Imaging, 2020, 13, e010586.	2.6	32
13	Trained Immunity-Promoting Nanobiologic Therapy Suppresses Tumor Growth and Potentiates Checkpoint Inhibition. Cell, 2020, 183, 786-801.e19.	28.9	101
14	Multimodal imaging of bacterial-host interface in mice and piglets with <i>Staphylococcus aureus</i> endocarditis. Science Translational Medicine, 2020, 12, .	12.4	6
15	Artificial intelligenceâ€“enabled rapid diagnosis of patients with COVID-19. Nature Medicine, 2020, 26, 1224-1228.	30.7	757
16	Whole-Body Atherosclerosis Imaging by Positron Emission Tomography/Magnetic Resonance Imaging. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1123-1134.	2.4	5
17	Probing myeloid cell dynamics in ischaemic heart disease by nanotracer hot-spot imaging. Nature Nanotechnology, 2020, 15, 398-405.	31.5	42
18	Ultra-high resolution, 3-dimensional magnetic resonance imaging of the atherosclerotic vessel wall at clinical 7T. PLoS ONE, 2020, 15, e0241779.	2.5	3

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19	Clinical imaging of cardiovascular inflammation. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2020, 64, 74-84.	0.7	1
20	Imaging-assisted nanoimmunotherapy for atherosclerosis in multiple species. Science Translational Medicine, 2019, 11, .	12.4	51
21	Advances in Therapies and Imaging for Systemic Vasculitis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 1520-1541.	2.4	19
22	Emerging Magnetic Resonance Imaging Techniques for Atherosclerosis Imaging. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 841-849.	2.4	32
23	Sodium Fluoride PET and AorticÂBioprosthetic Valve Degeneration. Journal of the American College of Cardiology, 2019, 73, 1120-1122.	2.8	0
24	Hybrid PET/MR Kernelised Expectation Maximisation Reconstruction for Improved Image-Derived Estimation of the Input Function from the Aorta of Rabbits. Contrast Media and Molecular Imaging, 2019, 2019, 1-12.	0.8	11
25	Nanobody-Facilitated Multiparametric PET/MRI Phenotyping of Atherosclerosis. JACC: Cardiovascular Imaging, 2019, 12, 2015-2026.	5.3	66
26	Efficacy and safety assessment of a TRAF6-targeted nanoimmunotherapy in atherosclerotic mice and non-human primates. Nature Biomedical Engineering, 2018, 2, 279-292.	22.5	94
27	PET/MR Imaging of Malondialdehyde-Acetaldehyde Epitopes With a HumanÂAntibody Detects ClinicallyÂRelevant Atherothrombosis. Journal of the American College of Cardiology, 2018, 71, 321-335.	2.8	39
28	Combined PET/DCE-MRI in a RabbitÂModelÂof Atherosclerosis. JACC: Cardiovascular Imaging, 2018, 11, 291-301.	5.3	25
29	Vessel wall characterization using quantitative MRI: whatâ€™s in a number?. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 201-222.	2.0	35
30	Monocyte and Macrophage Dynamics in the Cardiovascular System. Journal of the American College of Cardiology, 2018, 72, 2198-2212.	2.8	47
31	Development and Multiparametric Evaluation of Experimental Atherosclerosis in Rabbits. Methods in Molecular Biology, 2018, 1816, 385-400.	0.9	4
32	Comparison of Interâ€Observer Bias between Low Resolution and High Resolution Scans using 3T and 7T Scanners. FASEB Journal, 2018, 32, lb533.	0.5	0
33	Relation between resting amygdalar activity and cardiovascular events: a longitudinal and cohort study. Lancet, The, 2017, 389, 834-845.	13.7	442
34	Polyglucose nanoparticles with renal elimination and macrophage avidity facilitate PET imaging in ischaemic heart disease. Nature Communications, 2017, 8, 14064.	12.8	118
35	Intraplaque and Cellular Distribution of Dextran-Coated Iron Oxide Fluorescently Labeled Nanoparticles. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	6
36	Hyaluronan Nanoparticles Selectively Target Plaque-Associated Macrophages and Improve Plaque Stability in Atherosclerosis. ACS Nano, 2017, 11, 5785-5799.	14.6	137

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37	Plaque microvascularization and permeability: Key players in atherogenesis and plaque rupture. Atherosclerosis, 2017, 263, 320-321.	0.8	6
38	PET-driven respiratory phase tracking and self-gating of PET data: clinical demonstration of enhanced lesion detectability in cardiovascular PET/MRI. , 2017, , .		1
39	Feasibility of imaging superficial palmar arch using micro-ultrasound, 7T and 3T magnetic resonance imaging. World Journal of Radiology, 2017, 9, 79.	1.1	3
40	Imaging the Permeable Endothelium. Circulation: Cardiovascular Imaging, 2016, 9, .	2.6	4
41	Immune cell screening of a nanoparticle library improves atherosclerosis therapy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6731-E6740.	7.1	95
42	InÂVivo PET Imaging of HDL in MultipleÂAtherosclerosisÂModels. JACC: Cardiovascular Imaging, 2016, 9, 950-961.	5.3	78
43	Simultaneous carotid PET/MR: feasibility and improvement of magnetic resonance-based attenuation correction. International Journal of Cardiovascular Imaging, 2016, 32, 61-71.	1.5	12
44	Systems Biology and Noninvasive Imaging of Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, e1-8.	2.4	12
45	Three-dimensional dynamic contrast-enhanced MRI for the accurate, extensive quantification of microvascular permeability in atherosclerotic plaques. NMR in Biomedicine, 2015, 28, 1304-1314.	2.8	30
46	Pharmaceutical development and preclinical evaluation of a GMP-grade anti-inflammatory nanotherapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1133-1140.	3.3	37
47	Prednisolone-containing liposomes accumulate in human atherosclerotic macrophages upon intravenous administration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1039-1046.	3.3	127
48	Inhibiting macrophage proliferation suppresses atherosclerotic plaque inflammation. Science Advances, 2015, 1, .	10.3	173
49	Imaging Macrophage and Hematopoietic Progenitor Proliferation in Atherosclerosis. Circulation Research, 2015, 117, 835-845.	4.5	72
50	Alternatively Spliced Tissue Factor Promotes Plaque Angiogenesis Through the Activation of Hypoxia-Inducible Factor-1Î± and Vascular Endothelial Growth Factor Signaling. Circulation, 2014, 130, 1274-1286.	1.6	44
51	DCE-MRI of the Liver: Reconstruction of the Arterial Input Function Using a Low Dose Pre-Bolus Contrast Injection. PLoS ONE, 2014, 9, e115667.	2.5	14
52	SHILO, a novel dual imaging approach for simultaneous HI-/LOw temporal (Low-/Hi-spatial) resolution imaging for vascular dynamic contrast enhanced cardiovascular magnetic resonance: numerical simulations and feasibility in the carotid arteries. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 42.	3.3	18
53	The complementary roles of dynamic contrast-enhanced MRI and 18F-fluorodeoxyglucose PET/CT for imaging of carotid atherosclerosis. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 1884-1893.	6.4	57
54	Gadolinium-Based Contrast Agents for Vessel Wall Magnetic Resonance Imaging (MRI) of Atherosclerosis. Current Cardiovascular Imaging Reports, 2013, 6, 11-24.	0.6	22

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55	Radial k-space acquisition improves robustness of MR-based attenuation maps for MR/PET quantification in an animal imaging study of the abdomen. , 2012, , .		1
56	Dynamic contrast enhanced (DCE) magnetic resonance imaging (MRI) of atherosclerotic plaque angiogenesis. Angiogenesis, 2010, 13, 87-99.	7.2	47
57	Reproducibility of black blood dynamic contrastâ€enhanced magnetic resonance imaging in aortic plaques of atherosclerotic rabbits. Journal of Magnetic Resonance Imaging, 2010, 32, 191-198.	3.4	31
58	Detection of Neovessels in Atherosclerotic Plaques of Rabbits Using Dynamic Contrast Enhanced MRI and 18F-FDG PET. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1311-1317.	2.4	127