Gregory R Wojtkiewicz

List of Publications by Year
in descending order

Version: 2024-02-01

98 papers	8,910 citations	61857 43 h-index	46693 89 g-index

103 all docs	103 docs citations	103 times ranked	16482 citing authors

#	Article	IF	Citations
1	Vascular and Neurogenic Rejuvenation of the Aging Mouse Brain by Young Systemic Factors. Science, 2014, 344, 630-634.	6.0	857
2	An X-ray computed tomography imaging agent based on long-circulating bismuth sulphide nanoparticles. Nature Materials, 2006, 5, 118-122.	13.3	850
3	Immunogenic Chemotherapy Sensitizes Tumors to Checkpoint Blockade Therapy. Immunity, 2016, 44, 343-354.	6.6	767
4	Cardiac macrophages promote diastolic dysfunction. Journal of Experimental Medicine, 2018, 215, 423-440.	4.2	314
5	Direct vascular channels connect skull bone marrow and the brain surface enabling myeloid cell migration. Nature Neuroscience, 2018, 21, 1209-1217.	7.1	302
6	Predicting therapeutic nanomedicine efficacy using a companion magnetic resonance imaging nanoparticle. Science Translational Medicine, 2015, 7, 314ra183.	5.8	273
7	Osteoblasts remotely supply lung tumors with cancer-promoting SiglecF ^{high} neutrophils. Science, 2017, 358, .	6.0	270
8	Measuring Myeloperoxidase Activity in Biological Samples. PLoS ONE, 2013, 8, e67976.	1.1	265
9	Monocyte-Directed RNAi Targeting CCR2 Improves Infarct Healing in Atherosclerosis-Prone Mice. Circulation, 2013, 127, 2038-2046.	1.6	243
10	InÂVivo Silencing of the Transcription Factor IRF5 Reprograms the Macrophage Phenotype and Improves Infarct Healing. Journal of the American College of Cardiology, 2014, 63, 1556-1566.	1.2	220
11	Targeting Interleukin-1Î² Reduces Leukocyte Production After Acute Myocardial Infarction. Circulation, 2015, 132, 1880-1890.	1.6	200
12	Noninvasive imaging of immune responses. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6146-6151.	3.3	192
13	RNAi targeting multiple cell adhesion molecules reduces immune cell recruitment and vascular inflammation after myocardial infarction. Science Translational Medicine, 2016, 8, 342ra80.	5.8	169
14	Myocardial Infarction Activates CCR2+ Hematopoietic Stem and Progenitor Cells. Cell Stem Cell, 2015, 16, 477-487.	5.2	168
15	The infarcted myocardium solicits GM-CSF for the detrimental oversupply of inflammatory leukocytes. Journal of Experimental Medicine, 2017, 214, 3293-3310.	4.2	161
16	Angiotensin II Drives the Production of Tumor-Promoting Macrophages. Immunity, 2013, 38, 296-308.	6.6	157
17	Exercise reduces inflammatory cell production and cardiovascular inflammation via instruction of hematopoietic progenitor cells. Nature Medicine, 2019, 25, 1761-1771.	15.2	157
18	Macrophages retain hematopoietic stem cells in the spleen via VCAM-1. Journal of Experimental Medicine, 2015, 212, 497-512.	4.2	143

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19	Tracking Mesenchymal Stem Cells with Iron Oxide Nanoparticle Loaded Poly(lactide-co-glycolide) Microparticles. Nano Letters, 2012, 12, 4131-4139.	4.5	129
20	Gut intraepithelial T cells calibrate metabolism and accelerate cardiovascular disease. Nature, 2019, 566, 115-119.	13.7	128
21	Noninvasive mapping of pancreatic inflammation in recent-onset type-1 diabetes patients. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2139-2144.	3.3	123
22	Combined MEK and PI3K Inhibition in a Mouse Model of Pancreatic Cancer. Clinical Cancer Research, 2015, 21, 396-404.	3.2	121
23	Ibrutinib-Mediated Atrial Fibrillation Attributable to Inhibition of C-Terminal Src Kinase. Circulation, 2020, 142, 2443-2455.	1.6	121
24	Polyglucose nanoparticles with renal elimination and macrophage avidity facilitate PET imaging in ischaemic heart disease. Nature Communications, 2017, 8, 14064.	5.8	118
25	In vivo imaging of T cell delivery to tumors after adoptive transfer therapy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12457-12461.	3.3	113
26	Tissue-Specific Macrophage Responses to Remote Injury Impact the Outcome of Subsequent Local Immune Challenge. Immunity, 2019, 51, 899-914.e7.	6.6	110
27	Stage-dependent differential effects of interleukin-1 isoforms on experimental atherosclerosis. European Heart Journal, 2019, 40, 2482-2491.	1.0	102
28	Early window of diabetes determinism in NOD mice, dependent on the complement receptor CRIg, identified by noninvasive imaging. Nature Immunology, 2012, 13, 361-368.	7.0	98
29	Oligomerization of CXCL10 Is Necessary for Endothelial Cell Presentation and In Vivo Activity. Journal of Immunology, 2006, 177, 6991-6998.	0.4	95
30	Efficacy and safety assessment of a TRAF6-targeted nanoimmunotherapy in atherosclerotic mice and non-human primates. Nature Biomedical Engineering, 2018, 2, 279-292.	11.6	94
31	Bioengineering of functional human induced pluripotent stem cell-derived intestinal grafts. Nature Communications, 2017, 8, 765.	5.8	91
32	Use of ¹⁸F-2-Fluorodeoxyglucose to Label Antibody Fragments for Immuno-Positron Emission Tomography of Pancreatic Cancer. ACS Central Science, 2015, 1, 142-147.	5.3	85
33	Leigh Syndrome Mouse Model Can Be Rescued by Interventions that Normalize Brain Hyperoxia, but Not HIF Activation. Cell Metabolism, 2019, 30, 824-832.e3.	7.2	83
34	Demyelinating Diseases: Myeloperoxidase as an Imaging Biomarker and Therapeutic Target. Radiology, 2012, 263, 451-460.	3.6	81
35	Nanoparticle-encapsulated siRNAs for gene silencing in the haematopoietic stem-cell niche. Nature Biomedical Engineering, 2020, 4, 1076-1089.	11.6	80
36	Imaging Macrophage and Hematopoietic Progenitor Proliferation in Atherosclerosis. Circulation Research, 2015, 117, 835-845.	2.0	72

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37	Cerebrospinal fluid can exit into the skull bone marrow and instruct cranial hematopoiesis in mice with bacterial meningitis. Nature Neuroscience, 2022, 25, 567-576.	7.1	72
38	Myeloperoxidase Propagates Damage and is a Potential Therapeutic Target for Subacute Stroke. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 485-493.	2.4	66
39	Bevacizumab With Angiostatin-armed oHSV Increases Antiangiogenesis and Decreases Bevacizumab-induced Invasion in U87 Glioma. Molecular Therapy, 2012, 20, 37-45.	3.7	60
40	Imaging Primary Lung Cancers in Mice to Study Radiation Biology. International Journal of Radiation Oncology Biology Physics, 2010, 76, 973-977.	0.4	57
41	The Dual PI3K/mTOR Pathway Inhibitor GDC-0084 Achieves Antitumor Activity in PIK3CA-Mutant Breast Cancer Brain Metastases. Clinical Cancer Research, 2019, 25, 3374-3383.	3.2	57
42	Single Reporter for Targeted Multimodal in Vivo Imaging. Journal of the American Chemical Society, 2012, 134, 5149-5156.	6.6	45
43	Imaging the Vascular Bone Marrow Niche During Inflammatory Stress. Circulation Research, 2018, 123, 415-427.	2.0	45
44	Prosaposin mediates inflammation in atherosclerosis. Science Translational Medicine, 2021, 13, .	5.8	42
45	¹⁸ F-Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography Enables the Detection of Recurrent Same-Site Deep Vein Thrombosis by Illuminating Recently Formed, Neutrophil-Rich Thrombus. Circulation, 2014, 130, 1044-1052.	1.6	40
46	Sensory and autonomic deficits in a new humanized mouse model of familial dysautonomia. Human Molecular Genetics, 2016, 25, 1116-1128.	1.4	40
47	Genotype-targeted local therapy of glioma. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8388-E8394.	3.3	40
48	Multiple Sclerosis: Myeloperoxidase Immunoradiology Improves Detection of Acute and Chronic Disease in Experimental Model. Radiology, 2015, 275, 480-489.	3.6	37
49	Reducing myeloperoxidase activity decreases inflammation and increases cellular protection in ischemic stroke. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1864-1877.	2.4	36
50	Phf8 loss confers resistance to depression-like and anxiety-like behaviors in mice. Nature Communications, 2017, 8, 15142.	5.8	35
51	Distinguishing Inflammation from Tumor and Peritumoral Edema by Myeloperoxidase Magnetic Resonance Imaging. Clinical Cancer Research, 2011, 17, 4484-4493.	3.2	34
52	An activatable PET imaging radioprobe is a dynamic reporter of myeloperoxidase activity in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11966-11971.	3.3	34
53	B lymphocyte-derived acetylcholine limits steady-state and emergency hematopoiesis. Nature Immunology, 2022, 23, 605-618.	7.0	33
54	Neutrophils incite and macrophages avert electrical storm after myocardial infarction. , 2022, 1, 649-664.		33

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55	ELP1 Splicing Correction Reverses Proprioceptive Sensory Loss in Familial Dysautonomia. American Journal of Human Genetics, 2019, 104, 638-650.	2.6	32
56	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.	1.3	32
57	Bone marrow endothelial dysfunction promotes myeloid cell expansion in cardiovascular disease. , 2022, 1, 28-44.		32
58	Selective Factor XIIa Inhibition Attenuates Silent Brain Ischemia. JACC: Cardiovascular Imaging, 2012, 5, 1127-1138.	2.3	31
59	Molecular MR Imaging of Myeloperoxidase Distinguishes Steatosis from Steatohepatitis in Nonalcoholic Fatty Liver Disease. Radiology, 2017, 284, 390-400.	3.6	29
60	Diminished Reactive Hematopoiesis and Cardiac Inflammation in a Mouse Model of Recurrent Myocardial Infarction. Journal of the American College of Cardiology, 2020, 75, 901-915.	1.2	28
61	Endotracheal Tubes Cleaned With a Novel Mechanism for Secretion Removal: A Randomized Controlled Clinical Study. Respiratory Care, 2016, 61, 1431-1439.	0.8	26
62	Na+-H+ exchanger 1 determines atherosclerotic lesion acidification and promotes atherogenesis. Nature Communications, 2019, 10, 3978.	5.8	25
63	Myeloperoxidase Nuclear Imaging for Epileptogenesis. Radiology, 2016, 278, 822-830.	3.6	24
64	Multimodal targeted high relaxivity thermosensitive liposome for in vivo imaging. Scientific Reports, 2015, 5, 17220.	1.6	18
65	Ligation of the Jugular Veins Does Not Result in Brain Inflammation or Demyelination in Mice. PLoS ONE, 2012, 7, e33671.	1.1	18
66	A unique subset of glycolytic tumour-propagating cells drives squamous cell carcinoma. Nature Metabolism, 2021, 3, 182-195.	5.1	17
67	<scp>d</scp> -mannose suppresses oxidative response and blocks phagocytosis in experimental neuroinflammation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17
68	Hypoxia ameliorates brain hyperoxia and NAD+ deficiency in a murine model of Leigh syndrome. Molecular Genetics and Metabolism, 2021, 133, 83-93.	0.5	16
69	Tracheal Tube Obstruction in Mechanically Ventilated Patients Assessed by High-resolution Computed Tomography. Anesthesiology, 2014, 121, 1226-1235.	1.3	16
70	Stochastic Model of Tsc1 Lesions in Mouse Brain. PLoS ONE, 2013, 8, e64224.	1.1	16
71	Identification of small compound biomarkers of pituitary adenoma: a bilateral inferior petrosal sinus sampling study. Journal of NeuroInterventional Surgery, 2014, 6, 541-546.	2.0	15
72	Spinal Cord Inflammation: Molecular Imaging after Thoracic Aortic Ischemia Reperfusion Injury. Radiology, 2017, 282, 202-211.	3.6	15

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73	Highly Efficient Activatable MRI Probe to Sense Myeloperoxidase Activity. Journal of Medicinal Chemistry, 2021, 64, 5874-5885.	2.9	15
74	Ultrasmall superparamagnetic iron oxide nanoparticle uptake as noninvasive marker of aortic wall inflammation on MRI: proof of concept study. British Journal of Radiology, 2018, 91, 20180461.	1.0	13
75	A versatile imaging platform with fluorescence and CT imaging capabilities that detects myeloperoxidase activity and inflammation at different scales. Theranostics, 2019, 9, 7525-7536.	4.6	12
76	Surface biotinylation of cytotoxic T lymphocytes for in vivo tracking of tumor immunotherapy in murine models. Cancer Immunology, Immunotherapy, 2016, 65, 1545-1554.	2.0	10
77	Ex vivo perfusion-based engraftment of genetically engineered cell sensors into transplantable organs. PLoS ONE, 2019, 14, e0225222.	1.1	10
78	Myeloperoxidase Molecular MRI Reveals Synergistic Combination Therapy in Murine Experimental Autoimmune Neuroinflammation. Radiology, 2019, 293, 158-165.	3.6	9
79	Mapping of PET-measured aerosol deposition: a comparison study. Journal of Aerosol Science, 2005, 36, 1157-1176.	1.8	8
80	Multimodal Molecular Imaging Demonstrates Myeloperoxidase Regulation of Matrix Metalloproteinase Activity in Neuroinflammation. Molecular Neurobiology, 2019, 56, 954-962.	1.9	8
81	A fast, simple, and cost-effective method of expanding patient-derived xenograft mouse models of pancreatic ductal adenocarcinoma. Journal of Translational Medicine, 2020, 18, 255.	1.8	8
82	Pictorial review on abdominal applications of ferumoxytol in MR imaging. Abdominal Radiology, 2019, 44, 3273-3284.	1.0	7
83	Reduced Nhe1 (Na ⁺ -H ⁺ Exchanger-1) Function Protects ApoE-Deficient Mice From Ang II (Angiotensin II)â€“Induced Abdominal Aortic Aneurysms. Hypertension, 2020, 76, 87-100.	1.3	7
84	Myeloperoxidase exerts anti-tumor activity in glioma after radiotherapy. Neoplasia, 2022, 26, 100779.	2.3	7
85	Multimodal imaging of bacterial-host interface in mice and piglets with Staphylococcus aureus endocarditis. Science Translational Medicine, 2020, 12, .	5.8	6
86	Evaluation of renal quantitative T2* changes on MRI following administration of ferumoxytol as a T2* contrast agent. International Journal of Nanomedicine, 2014, 9, 2101.	3.3	5
87	More than meets the eye. Physics Teacher, 1995, 33, 446-448.	0.2	3
88	D-Mannose Slows Glioma Growth by Modulating Myeloperoxidase Activity. Cancers, 2021, 13, 6360.	1.7	3
89	Injectable slurry for selective destruction of neck adipose tissue in New Zealand obese mouse model. Sleep and Breathing, 2020, 24, 1715-1718.	0.9	2
90	Characterization of an elastase-induced emphysema model in immune-deficient rats. European Journal of Cardio-thoracic Surgery, 2021, 59, 309-315.	0.6	1

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91	Molecular imaging of spinal cord inflammation following thoracic aortic ischemia reperfusion injury. Journal of the American College of Surgeons, 2014, 219, e58-e59.	0.2	0
92	Response to Letter Regarding Article, â€œ ¹⁸ F-Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography Enables the Detection of Recurrent Same-Site Deep Vein Thrombosis by Illuminating Recently Formed, Neutrophil-Rich Thrombusâ€• Circulation, 2015, 131, e531-2.	1.6	0
93	Method for Measuring Macrophage Iron Efflux in Vitro and in Vivo Using Magnetic Resonance Imaging. Blood, 2008, 112, 4636-4636.	0.6	0
94	Molecular immunoâ€imaging improves tumor detection in head and neck cancer. FASEB Journal, 2022, 36, e22092.	0.2	0
95	Title is missing!. , 2019, 14, e0225222.		0
96	Title is missing!. , 2019, 14, e0225222.		0
97	Title is missing!. , 2019, 14, e0225222.		0
98	Title is missing!. , 2019, 14, e0225222.		0