

John W Chen

List of Publications by Year in descending order

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72
papers

6,593
citations

117625

34
h-index

85541

71
g-index

74
all docs

74
docs citations

74
times ranked

11529
citing authors

#	ARTICLE	IF	CITATIONS
1	Vascular and Neurogenic Rejuvenation of the Aging Mouse Brain by Young Systemic Factors. <i>Science</i> , 2014, 344, 630-634.	12.6	857
2	Dynamic Biodistribution of Extracellular Vesicles <i>in Vivo</i> Using a Multimodal Imaging Reporter. <i>ACS Nano</i> , 2014, 8, 483-494.	14.6	663
3	Origins of tumor-associated macrophages and neutrophils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2491-2496.	7.1	547
4	Combined adult neurogenesis and BDNF mimic exercise effects on cognition in an Alzheimer's mouse model. <i>Science</i> , 2018, 361, .	12.6	536
5	Tracking the inflammatory response in stroke <i>in vivo</i> by sensing the enzyme myeloperoxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18584-18589.	7.1	275
6	Measuring Myeloperoxidase Activity in Biological Samples. <i>PLoS ONE</i> , 2013, 8, e67976.	2.5	265
7	Monocyte-Directed RNAi Targeting CCR2 Improves Infarct Healing in Atherosclerosis-Prone Mice. <i>Circulation</i> , 2013, 127, 2038-2046.	1.6	243
8	Oncogenic EGFR signaling cooperates with loss of tumor suppressor gene functions in gliomagenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2712-2716.	7.1	197
9	Activatable Magnetic Resonance Imaging Agent Reports Myeloperoxidase Activity in Healing Infarcts and Noninvasively Detects the Antiinflammatory Effects of Atorvastatin on Ischemia-Reperfusion Injury. <i>Circulation</i> , 2008, 117, 1153-1160.	1.6	178
10	Angiotensin II Drives the Production of Tumor-Promoting Macrophages. <i>Immunity</i> , 2013, 38, 296-308.	14.3	157
11	Enzyme-Sensitive Magnetic Resonance Imaging Targeting Myeloperoxidase Identifies Active Inflammation in Experimental Rabbit Atherosclerotic Plaques. <i>Circulation</i> , 2009, 120, 592-599.	1.6	151
12	Imaging of Myeloperoxidase in Mice by Using Novel Amplifiable Paramagnetic Substrates. <i>Radiology</i> , 2006, 240, 473-481.	7.3	147
13	Pleural innate response activator B cells protect against pneumonia via a GM-CSF-IgM axis. <i>Journal of Experimental Medicine</i> , 2014, 211, 1243-1256.	8.5	132
14	Human myeloperoxidase: A potential target for molecular MR imaging in atherosclerosis. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1021-1028.	3.0	127
15	Polyglucose nanoparticles with renal elimination and macrophage avidity facilitate PET imaging in ischaemic heart disease. <i>Nature Communications</i> , 2017, 8, 14064.	12.8	118
16	Myeloperoxidase-targeted imaging of active inflammatory lesions in murine experimental autoimmune encephalomyelitis. <i>Brain</i> , 2008, 131, 1123-1133.	7.6	106
17	Metabolic biotinylation of cell surface receptors for <i>in vivo</i> imaging. <i>Nature Methods</i> , 2006, 3, 391-396.	19.0	105
18	DTPA-bisamide-Based MR Sensor Agents for Peroxidase Imaging. <i>Organic Letters</i> , 2005, 7, 1719-1722.	4.6	101

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19	Activatable Magnetic Resonance Imaging Agents for Myeloperoxidase Sensing: Mechanism of Activation, Stability, and Toxicity. <i>Journal of the American Chemical Society</i> , 2010, 132, 168-177.	13.7	99
20	Myeloperoxidase-Hepatocyte-Stellate Cell Cross Talk Promotes Hepatocyte Injury and Fibrosis in Experimental Nonalcoholic Steatohepatitis. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 1255-1269.	5.4	93
21	Myeloperoxidase-rich Ly-6C+ myeloid cells infiltrate allografts and contribute to an imaging signature of organ rejection in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 2627-2634.	8.2	90
22	In vivo nanoparticle imaging of innate immune cells can serve as a marker of disease severity in a model of multiple sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13227-13232.	7.1	87
23	Demyelinating Diseases: Myeloperoxidase as an Imaging Biomarker and Therapeutic Target. <i>Radiology</i> , 2012, 263, 451-460.	7.3	81
24	Myeloperoxidase Inhibition Improves Ventricular Function and Remodeling After Experimental Myocardial Infarction. <i>JACC Basic To Translational Science</i> , 2016, 1, 633-643.	4.1	77
25	Combined magnetic resonance and fluorescence imaging of the living mouse brain reveals glioma response to chemotherapy. <i>NeuroImage</i> , 2009, 45, 360-369.	4.2	71
26	Myeloperoxidase Propagates Damage and is a Potential Therapeutic Target for Subacute Stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 485-493.	4.3	66
27	Diagnosis of fatty liver with MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1992, 2, 463-471.	3.4	60
28	Bevacizumab With Angiostatin-armed oHSV Increases Antiangiogenesis and Decreases Bevacizumab-induced Invasion in U87 Glioma. <i>Molecular Therapy</i> , 2012, 20, 37-45.	8.2	60
29	A paramagnetic contrast agent with myeloperoxidase-sensing properties. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 1887.	2.8	58
30	FOXO protects against age-progressive axonal degeneration. <i>Aging Cell</i> , 2018, 17, e12701.	6.7	52
31	Myeloperoxidase Inhibition Increases Neurogenesis after Ischemic Stroke. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016, 359, 262-272.	2.5	49
32	Single Reporter for Targeted Multimodal in Vivo Imaging. <i>Journal of the American Chemical Society</i> , 2012, 134, 5149-5156.	13.7	45
33	Mouse model of anti-NMDA receptor post-herpes simplex encephalitis. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2019, 6, e529.	6.0	44
34	Multiple Sclerosis: Myeloperoxidase Immunoradiology Improves Detection of Acute and Chronic Disease in Experimental Model. <i>Radiology</i> , 2015, 275, 480-489.	7.3	37
35	Reducing myeloperoxidase activity decreases inflammation and increases cellular protection in ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1864-1877.	4.3	36
36	Phf8 loss confers resistance to depression-like and anxiety-like behaviors in mice. <i>Nature Communications</i> , 2017, 8, 15142.	12.8	35

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37	Distinguishing Inflammation from Tumor and Peritumoral Edema by Myeloperoxidase Magnetic Resonance Imaging. <i>Clinical Cancer Research</i> , 2011, 17, 4484-4493.	7.0	34
38	An activatable PET imaging radioprobe is a dynamic reporter of myeloperoxidase activity in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11966-11971.	7.1	34
39	Selective Factor XIIa Inhibition Attenuates Silent Brain Ischemia. <i>JACC: Cardiovascular Imaging</i> , 2012, 5, 1127-1138.	5.3	31
40	Molecular MR Imaging of Myeloperoxidase Distinguishes Steatosis from Steatohepatitis in Nonalcoholic Fatty Liver Disease. <i>Radiology</i> , 2017, 284, 390-400.	7.3	29
41	Predicting the Severity and Prognosis of Trismus after Intensity-Modulated Radiation Therapy for Oral Cancer Patients by Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2014, 9, e92561.	2.5	24
42	Gelsolin decreases actin toxicity and inflammation in murine multiple sclerosis. <i>Journal of Neuroimmunology</i> , 2015, 287, 36-42.	2.3	24
43	Myeloperoxidase Nuclear Imaging for Epileptogenesis. <i>Radiology</i> , 2016, 278, 822-830.	7.3	24
44	Vasculitis: Molecular Imaging by Targeting the Inflammatory Enzyme Myeloperoxidase. <i>Radiology</i> , 2012, 262, 181-190.	7.3	23
45	Vulnerable Plaque Imaging. <i>Neuroimaging Clinics of North America</i> , 2005, 15, 609-621.	1.0	20
46	Optimal Brain MRI Protocol for New Neurological Complaint. <i>PLoS ONE</i> , 2014, 9, e110803.	2.5	20
47	Enhanced in Vivo Imaging of Metabolically Biotinylated Cell Surface Reporters. <i>Analytical Chemistry</i> , 2011, 83, 994-999.	6.5	19
48	Multimodal targeted high relaxivity thermosensitive liposome for in vivo imaging. <i>Scientific Reports</i> , 2015, 5, 17220.	3.3	18
49	A cerebellopontine angle mouse model for the investigation of tumor biology, hearing, and neurological function in NF2-related vestibular schwannoma. <i>Nature Protocols</i> , 2019, 14, 541-555.	12.0	18
50	Obtusaquinone: A Cysteine-Modifying Compound That Targets Keap1 for Degradation. <i>ACS Chemical Biology</i> , 2020, 15, 1445-1454.	3.4	18
51	Ligation of the Jugular Veins Does Not Result in Brain Inflammation or Demyelination in Mice. <i>PLoS ONE</i> , 2012, 7, e33671.	2.5	18
52	Myeloperoxidase Activity Imaging Using ⁶⁷ Ga Labeled Substrate. <i>Molecular Imaging and Biology</i> , 2005, 7, 403-410.	2.6	17
53	<scp>d</scp> -mannose suppresses oxidative response and blocks phagocytosis in experimental neuroinflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	17
54	Stochastic Model of Tsc1 Lesions in Mouse Brain. <i>PLoS ONE</i> , 2013, 8, e64224.	2.5	16

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55	Identification of small compound biomarkers of pituitary adenoma: a bilateral inferior petrosal sinus sampling study. <i>Journal of NeuroInterventional Surgery</i> , 2014, 6, 541-546.	3.3	15
56	Spinal Cord Inflammation: Molecular Imaging after Thoracic Aortic Ischemia Reperfusion Injury. <i>Radiology</i> , 2017, 282, 202-211.	7.3	15
57	Highly Efficient Activatable MRI Probe to Sense Myeloperoxidase Activity. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 5874-5885.	6.4	15
58	A versatile imaging platform with fluorescence and CT imaging capabilities that detects myeloperoxidase activity and inflammation at different scales. <i>Theranostics</i> , 2019, 9, 7525-7536.	10.0	12
59	MRI of Iron Oxide Nanoparticles and Myeloperoxidase Activity Links Inflammation to Brain Edema in Experimental Cerebral Malaria. <i>Radiology</i> , 2019, 290, 359-367.	7.3	11
60	Surface biotinylation of cytotoxic T lymphocytes for in vivo tracking of tumor immunotherapy in murine models. <i>Cancer Immunology, Immunotherapy</i> , 2016, 65, 1545-1554.	4.2	10
61	Dynamic 1H-MRS assessment of brain tumors: A novel approach for differential diagnosis of glioma. <i>Oncotarget</i> , 2015, 6, 32257-32265.	1.8	10
62	Microstructural Changes in Absence Seizure Children: A Diffusion Tensor Magnetic Resonance Imaging Study. <i>Pediatrics and Neonatology</i> , 2016, 57, 318-325.	0.9	9
63	Ultrasmall Superparamagnetic Iron Oxide Imaging Identifies Tissue and Nerve Inflammation in Pain Conditions. <i>Pain Medicine</i> , 2018, 19, 686-692.	1.9	9
64	Myeloperoxidase Molecular MRI Reveals Synergistic Combination Therapy in Murine Experimental Autoimmune Neuroinflammation. <i>Radiology</i> , 2019, 293, 158-165.	7.3	9
65	Multimodal Molecular Imaging Demonstrates Myeloperoxidase Regulation of Matrix Metalloproteinase Activity in Neuroinflammation. <i>Molecular Neurobiology</i> , 2019, 56, 954-962.	4.0	8
66	Myeloperoxidase exerts anti-tumor activity in glioma after radiotherapy. <i>Neoplasia</i> , 2022, 26, 100779.	5.3	7
67	Molecular Imaging of Macrophage Enzyme Activity in Cardiac Inflammation. <i>Current Cardiovascular Imaging Reports</i> , 2014, 7, 9258.	0.6	6
68	D-Mannose Slows Glioma Growth by Modulating Myeloperoxidase Activity. <i>Cancers</i> , 2021, 13, 6360.	3.7	3
69	Does Brain Gadolinium Deposition Have Clinical Consequence? Lessons from Animal Studies. <i>Radiology</i> , 2021, 301, 417-419.	7.3	2
70	1001. Metabolic Biotinylation of Cell Surface Receptors for In Vivo Imaging. <i>Molecular Therapy</i> , 2006, 13, S386.	8.2	0
71	Magnetic Resonance Imaging Agents. , 2021, , 583-601.		0
72	Molecular immunoimaging improves tumor detection in head and neck cancer. <i>FASEB Journal</i> , 2022, 36, e22092.	0.5	0