T Kevin Hitchens

List of Publications by Year
in descending order

71 papers	3,410 citations	136740 32 h-index	149479 56 g-index
72 all docs	72 docs citations	72 times ranked	4378 citing authors

#	Article	IF	Citations
1	In situ labeling of immune cells with iron oxide particles: An approach to detect organ rejection by cellular MRI. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1852-1857.	3.3	599
2	Treg cell-derived osteopontin promotes microglia-mediated white matter repair after ischemic stroke. Immunity, 2021, 54, 1527-1542.e8.	6.6	163
3	Accelerated MR parameter mapping with lowâ€rank and sparsity constraints. Magnetic Resonance in Medicine, 2015, 74, 489-498.	1.9	140
4	Reactive oxygen species scavenging with a biodegradable, thermally responsive hydrogel compatible with soft tissue injection. Biomaterials, 2018, 177, 98-112.	5.7	128
5	¹⁹F MRI detection of acute allograft rejection with in vivo perfluorocarbon labeling of immune cells. Magnetic Resonance in Medicine, 2011, 65, 1144-1153.	1.9	108
6	Synthesis and Anti-HIV-1 Activity of 4,5,6,7-Tetrahydro-5-methylimidazo[4,5,1-jk][1,4]benzodiazepin-2(1H)-one (TIBO) Derivatives. 3. Journal of Medicinal Chemistry, 1995, 38, 771-793.	2.9	100
7	Mapping immune cell infiltration using restricted diffusion <scp>MRI</scp>. Magnetic Resonance in Medicine, 2017, 77, 603-612.	1.9	100
8	The interleukin-4/PPARÎ³ signaling axis promotes oligodendrocyte differentiation and remyelination after brain injury. PLoS Biology, 2019, 17, e3000330.	2.6	95
9	Aberrant ER Stress Induced Neuronal-IFNÎ² Elicits White Matter Injury Due to Microglial Activation and T-Cell Infiltration after TBI. Journal of Neuroscience, 2020, 40, 424-446.	1.7	93
10	A novel probe for the non-invasive detection of tumor-associated inflammation. OncoImmunology, 2013, 2, e23034.	2.1	90
11	Magnetic Resonance Imaging Assessment of Regional Cerebral Blood Flow after Asphyxial Cardiac Arrest in Immature Rats. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 197-205.	2.4	78
12	MONTE: An automated Monte Carlo based approach to nuclear magnetic resonance assignment of proteins. Journal of Biomolecular NMR, 2003, 25, 1-9.	1.6	77
13	Tracking T-cells in vivo with a new nano-sized MRI contrast agent. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1345-1354.	1.7	68
14	TGFÎ± preserves oligodendrocyte lineage cells and improves white matter integrity after cerebral ischemia. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 639-655.	2.4	67
15	Longitudinal Tracking of Recipient Macrophages in a Rat Chronic Cardiac Allograft Rejection Model With Noninvasive Magnetic Resonance Imaging Using Micrometer-Sized Paramagnetic Iron Oxide Particles. Circulation, 2008, 118, 149-156.	1.6	66
16	Global and regional differences in cerebral blood flow after asphyxial versus ventricular fibrillation cardiac arrest in rats using ASL-MRI. Resuscitation, 2014, 85, 964-971.	1.3	64
17	Enhancing sensitivity of pH-weighted MRI with combination of amide and guanidyl CEST. NeuroImage, 2017, 157, 341-350.	2.1	64
18	Noninvasive Evaluation of Cardiac Allograft Rejection by Cellular and Functional Cardiac Magnetic Resonance. JACC: Cardiovascular Imaging, 2009, 2, 731-741.	2.3	61

#	Article	IF	Citations
19	Normal and Transplanted Rat Kidneys: Diffusion MR Imaging at 7 T. Radiology, 2004, 231, 702-709.	3.6	60
20	Accelerated fluorineâ€19 MRI cell tracking using compressed sensing. Magnetic Resonance in Medicine, 2013, 69, 1683-1690.	1.9	60
21	Tissue plasminogen activator promotes white matter integrity and functional recovery in a murine model of traumatic brain injury. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9230-E9238.	3.3	54
22	Enhanced cellular uptake and long-term retention of chitosan-modified iron-oxide nanoparticles for MRI-based cell tracking. International Journal of Nanomedicine, 2012, 7, 4613.	3.3	53
23	A Non-Invasive Approach to Detecting Organ Rejection by MRI: Monitoring the Accumulation of Immune Cells At the Transplanted Organ. Current Pharmaceutical Biotechnology, 2004, 5, 551-566.	0.9	51
24	High-Resolution Cardiovascular MRI by Integrating Parallel Imaging With Low-Rank and Sparse Modeling. IEEE Transactions on Biomedical Engineering, 2013, 60, 3083-3092.	2.5	50
25	Effects of DHA on Hippocampal Autophagy and Lysosome Function After Traumatic Brain Injury. Molecular Neurobiology, 2018, 55, 2454-2470.	1.9	46
26	Magnetic Resonance Imaging Assessment of Macrophage Accumulation in Mouse Brain after Experimental Traumatic Brain Injury. Journal of Neurotrauma, 2009, 26, 1509-1519.	1.7	45
27	Selective role of Na⁺/H⁺ exchanger in Cx3cr1⁺ microglial activation, white matter demyelination, and postâ€stroke function recovery. Glia, 2018, 66, 2279-2298.	2.5	43
28	Mri Assessment of Cerebral Blood Flow after Experimental Traumatic Brain Injury Combined with Hemorrhagic Shock in Mice. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 129-136.	2.4	38
29	Chemical exchangeâ€“sensitive spinâ€lock (<scp>CESL) MRI</scp> of glucose and analogs in brain tumors. Magnetic Resonance in Medicine, 2018, 80, 488-495.	1.9	37
30	Protease-independent action of tissue plasminogen activator in brain plasticity and neurological recovery after ischemic stroke. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9115-9124.	3.3	37
31	Interleukin-4 improves white matter integrity and functional recovery after murine traumatic brain injury via oligodendroglial PPARÎ³. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 511-529.	2.4	37
32	Quantitative Temporal Profiles of Penumbra and Infarction During Permanent Middle Cerebral Artery Occlusion in Rats. Translational Stroke Research, 2010, 1, 220-229.	2.3	36
33	Magnetic Resonance Imaging Investigation of Macrophages in Acute Cardiac Allograft Rejection After Heart Transplantation. Circulation: Cardiovascular Imaging, 2013, 6, 965-973.	1.3	36
34	Detection of aberrant hippocampal mossy fiber connections: Ex vivo mesoscale diffusion <scp>MRI</scp> and microtractography with histological validation in a patient with uncontrolled temporal lobe epilepsy. Human Brain Mapping, 2016, 37, 780-795.	1.9	36
35	Imaging Neuroinflammation In Vivo in a Neuropathic Pain Rat Model with Near-Infrared Fluorescence and 19F Magnetic Resonance. PLoS ONE, 2014, 9, e90589.	1.1	36
36	Deletion of the WNK3-SPAK kinase complex in mice improves radiographic and clinical outcomes in malignant cerebral edema after ischemic stroke. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 550-563.	2.4	31

#	Article	IF	Citations
37	Automated detection and characterization of SPIOâ€labeled cells and capsules using magnetic field perturbations. Magnetic Resonance in Medicine, 2012, 67, 278-289.	1.9	30
38	Effect of Inducible Nitric Oxide Synthase on Cerebral Blood Flow after Experimental Traumatic Brain Injury in Mice. Journal of Neurotrauma, 2008, 25, 299-310.	1.7	26
39	Blocking NHE1 stimulates glioma tumor immunity by restoring OXPHOS function of myeloid cells. Theranostics, 2021, 11, 1295-1309.	4.6	24
40	Mapping stain distribution in pathology slides using whole slide imaging. Journal of Pathology Informatics, 2014, 5, 1.	0.8	22
41	Combining perfluorocarbon and superparamagnetic ironâ€oxide cell labeling for improved and expanded applications of cellular MRI. Magnetic Resonance in Medicine, 2015, 73, 367-375.	1.9	22
42	Polynitroxyl Albumin and Albumin Therapy after Pediatric Asphyxial Cardiac Arrest: Effects on Cerebral Blood Flow and Neurologic Outcome. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 560-569.	2.4	21
43	Iron Oxide Nanoparticles with Grafted Polymeric Analogue of Dimethyl Sulfoxide as Potential Magnetic Resonance Imaging Contrast Agents. ACS Applied Materials & Interfaces, 2018, 10, 21901-21908.	4.0	21
44	Reversal of the Warburg phenomenon in chemoprevention of prostate cancer by sulforaphane. Carcinogenesis, 2019, 40, 1545-1556.	1.3	21
45	Intranasal delivery of interleukin-4 attenuates chronic cognitive deficits via beneficial microglial responses in experimental traumatic brain injury. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2870-2886.	2.4	21
46	Engineered Mitochondrial Ferritin as a Magnetic Resonance Imaging Reporter in Mouse Olfactory Epithelium. PLoS ONE, 2013, 8, e72720.	1.1	20
47	Metabolic and Structural Imaging at 7 Tesla After Repetitive Mild Traumatic Brain Injury in Immature Rats. ASN Neuro, 2018, 10, 175909141877054.	1.5	20
48	Cerebral Blood Flow Changes after Brain Injury in Human Amyloid-Beta Knock-in Mice. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 826-833.	2.4	19
49	Mesoscale diffusion magnetic resonance imaging of the ex vivo human hippocampus. Human Brain Mapping, 2020, 41, 4200-4218.	1.9	15
50	Improved Subspace Estimation for Low-Rank Model-Based Accelerated Cardiac Imaging. IEEE Transactions on Biomedical Engineering, 2014, 61, 2451-2457.	2.5	14
51	Mapping the acute time course of immune cell infiltration into an ECM hydrogel in a rat model of stroke using 19F MRI. Biomaterials, 2022, 282, 121386.	5.7	14
52	Novel theranostic agent for PET imaging and targeted radiopharmaceutical therapy of tumour-infiltrating immune cells in glioma. EBioMedicine, 2021, 71, 103571.	2.7	13
53	Age-related changes in lateral ventricle morphology in craniosynostotic rabbits using magnetic resonance imaging. Child's Nervous System, 2005, 21, 385-391.	0.6	12
54	A systematic optimization of 19F MR image acquisition to detect macrophage invasion into an ECM hydrogel implanted in the stroke-damaged brain. NeuroImage, 2019, 202, 116090.	2.1	12

#	Article	IF	Citations
55	Metabolic Changes in Early Poststatus Epilepticus Measured by MR Spectroscopy in Rats. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1862-1870.	2.4	11
56	Genetic Deficiency of MicroRNAâ€15a/16â€1 Confers Resistance to Neuropathological Damage and Cognitive Dysfunction in Experimental Vascular Cognitive Impairment and Dementia. Advanced Science, 2022, 9, e2104986.	5.6	11
57	Ex vivo mesoscopic diffusion <scp>MRI</scp> correlates with seizure frequency in patients with uncontrolled mesial temporal lobe epilepsy. Human Brain Mapping, 2020, 41, 4529-4548.	1.9	10
58	Improve myocardial T₁ measurement in rats with a new regression model: Application to myocardial infarction and beyond. Magnetic Resonance in Medicine, 2014, 72, 737-748.	1.9	9
59	Factorial Design of Experiments to Optimize Multiple Protein Delivery for Cardiac Repair. ACS Biomaterials Science and Engineering, 2016, 2, 879-886.	2.6	9
60	Sequence-specific Interactions in the RNA-binding Domain of Escherichia coli Transcription Termination Factor Rho. Journal of Biological Chemistry, 2006, 281, 33697-33703.	1.6	8
61	The influence of suturectomy on age-related changes in cerebral blood flow in rabbits with familial bicoronal suture craniosynostosis: A quantitative analysis. PLoS ONE, 2018, 13, e0197296.	1.1	8
62	Design of Thermoresponsive Polyamine Cross-Linked Perfluoropolyether Hydrogels for Imaging and Delivery Applications. ACS Medicinal Chemistry Letters, 2020, 11, 2032-2040.	1.3	8
63	Pressure Dependence of Weak Acid Ionization in Deuterium Oxide Solutions. Journal of Physical Chemistry B, 1998, 102, 1002-1004.	1.2	7
64	Testing Causal Mechanisms of Nonsyndromic Craniosynostosis Using Path Analysis of Cranial Contents in Rabbits with Uncorrected Craniosynostosis. Cleft Palate-Craniofacial Journal, 2006, 43, 524-531.	0.5	7
65	Enduring disturbances in regional cerebral blood flow and brain oxygenation at 24â€‰h after asphyxial cardiac arrest in developing rats. Pediatric Research, 2017, 81, 94-98.	1.1	7
66	Improved chemosensitivity following mucolytic therapy in patient-derived models of mucinous appendix cancer. Translational Research, 2021, 229, 100-114.	2.2	6
67	Age-related peridural hyperemia in craniosynostotic rabbits. Child's Nervous System, 2009, 25, 861-866.	0.6	5
68	Data requirements for reliable chemical shift assignments in deuterated proteins. Journal of Biomolecular NMR, 2003, 25, 11-23.	1.6	4
69	Epigenetic MRI: Noninvasive imaging of DNA methylation in the brain. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119891119.	3.3	3
70	Targeting neurotrophin and nitric oxide signaling to treat spinal cord injury and associated neurogenic bladder overactivity. , 2022, 1, 100014.		2
71	A liquid fraction of extracellular matrix inhibits glioma cell viability in vitro and in vivo. Oncotarget, 2022, 13, 426-438.	0.8	0