

T Kevin Hitchens

List of Publications by Year in descending order

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Version: 2024-02-01

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	Mapping the acute time course of immune cell infiltration into an ECM hydrogel in a rat model of stroke using 19F MRI. <i>Biomaterials</i> , 2022, 282, 121386.	5.7	14
2	A liquid fraction of extracellular matrix inhibits glioma cell viability <i>in vitro</i> and <i>in vivo</i> . <i>Oncotarget</i> , 2022, 13, 426-438.	0.8	0
3	Epigenetic MRI: Noninvasive imaging of DNA methylation in the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119891119.	3.3	3
4	Targeting neurotrophin and nitric oxide signaling to treat spinal cord injury and associated neurogenic bladder overactivity. , 2022, 1, 100014.		2
5	Genetic Deficiency of MicroRNA-15a/16-1 Confers Resistance to Neuropathological Damage and Cognitive Dysfunction in Experimental Vascular Cognitive Impairment and Dementia. <i>Advanced Science</i> , 2022, 9, e2104986.	5.6	11
6	Interleukin-4 improves white matter integrity and functional recovery after murine traumatic brain injury via oligodendroglial PPAR β . <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 511-529.	2.4	37
7	Improved chemosensitivity following mucolytic therapy in patient-derived models of mucinous appendix cancer. <i>Translational Research</i> , 2021, 229, 100-114.	2.2	6
8	Blocking NHE1 stimulates glioma tumor immunity by restoring OXPHOS function of myeloid cells. <i>Theranostics</i> , 2021, 11, 1295-1309.	4.6	24
9	Intranasal delivery of interleukin-4 attenuates chronic cognitive deficits via beneficial microglial responses in experimental traumatic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2870-2886.	2.4	21
10	Treg cell-derived osteopontin promotes microglia-mediated white matter repair after ischemic stroke. <i>Immunity</i> , 2021, 54, 1527-1542.e8.	6.6	163
11	Novel theranostic agent for PET imaging and targeted radiopharmaceutical therapy of tumour-infiltrating immune cells in glioma. <i>EBioMedicine</i> , 2021, 71, 103571.	2.7	13
12	TGF β preserves oligodendrocyte lineage cells and improves white matter integrity after cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 639-655.	2.4	67
13	Aberrant ER Stress Induced Neuronal-IFN γ Elicits White Matter Injury Due to Microglial Activation and T-Cell Infiltration after TBI. <i>Journal of Neuroscience</i> , 2020, 40, 424-446.	1.7	93
14	Ex vivo mesoscopic diffusion MRI correlates with seizure frequency in patients with uncontrolled mesial temporal lobe epilepsy. <i>Human Brain Mapping</i> , 2020, 41, 4529-4548.	1.9	10
15	Design of Thermoresponsive Polyamine Cross-Linked Perfluoropolyether Hydrogels for Imaging and Delivery Applications. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 2032-2040.	1.3	8
16	Mesoscale diffusion magnetic resonance imaging of the ex vivo human hippocampus. <i>Human Brain Mapping</i> , 2020, 41, 4200-4218.	1.9	15
17	A systematic optimization of 19F MR image acquisition to detect macrophage invasion into an ECM hydrogel implanted in the stroke-damaged brain. <i>NeuroImage</i> , 2019, 202, 116090.	2.1	12
18	Reversal of the Warburg phenomenon in chemoprevention of prostate cancer by sulforaphane. <i>Carcinogenesis</i> , 2019, 40, 1545-1556.	1.3	21

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19	The interleukin-4/PPAR β signaling axis promotes oligodendrocyte differentiation and remyelination after brain injury. <i>PLoS Biology</i> , 2019, 17, e3000330.	2.6	95
20	Protease-independent action of tissue plasminogen activator in brain plasticity and neurological recovery after ischemic stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9115-9124.	3.3	37
21	Chemical exchange-sensitive spin-echo (CEST) MRI of glucose and analogs in brain tumors. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 488-495.	1.9	37
22	Effects of DHA on Hippocampal Autophagy and Lysosome Function After Traumatic Brain Injury. <i>Molecular Neurobiology</i> , 2018, 55, 2454-2470.	1.9	46
23	Tissue plasminogen activator promotes white matter integrity and functional recovery in a murine model of traumatic brain injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9230-E9238.	3.3	54
24	Reactive oxygen species scavenging with a biodegradable, thermally responsive hydrogel compatible with soft tissue injection. <i>Biomaterials</i> , 2018, 177, 98-112.	5.7	128
25	Selective role of Na ⁺ /H ⁺ exchanger in Cx3cr1 microglial activation, white matter demyelination, and post-stroke function recovery. <i>Glia</i> , 2018, 66, 2279-2298.	2.5	43
26	Metabolic and Structural Imaging at 7 Tesla After Repetitive Mild Traumatic Brain Injury in Immature Rats. <i>ASN Neuro</i> , 2018, 10, 175909141877054.	1.5	20
27	The influence of suturoctomy on age-related changes in cerebral blood flow in rabbits with familial bicoronal suture craniosynostosis: A quantitative analysis. <i>PLoS ONE</i> , 2018, 13, e0197296.	1.1	8
28	Iron Oxide Nanoparticles with Grafted Polymeric Analogue of Dimethyl Sulfoxide as Potential Magnetic Resonance Imaging Contrast Agents. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21901-21908.	4.0	21
29	Deletion of the WNK3-SPAK kinase complex in mice improves radiographic and clinical outcomes in malignant cerebral edema after ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 550-563.	2.4	31
30	Mapping immune cell infiltration using restricted diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 603-612.	1.9	100
31	Enhancing sensitivity of pH-weighted MRI with combination of amide and guanidyl CEST. <i>NeuroImage</i> , 2017, 157, 341-350.	2.1	64
32	Enduring disturbances in regional cerebral blood flow and brain oxygenation at 24h after asphyxial cardiac arrest in developing rats. <i>Pediatric Research</i> , 2017, 81, 94-98.	1.1	7
33	Factorial Design of Experiments to Optimize Multiple Protein Delivery for Cardiac Repair. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 879-886.	2.6	9
34	Detection of aberrant hippocampal mossy fiber connections: Ex vivo mesoscale diffusion MRI and microtractography with histological validation in a patient with uncontrolled temporal lobe epilepsy. <i>Human Brain Mapping</i> , 2016, 37, 780-795.	1.9	36
35	Combining perfluorocarbon and superparamagnetic iron-oxide cell labeling for improved and expanded applications of cellular MRI. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 367-375.	1.9	22
36	Accelerated MR parameter mapping with low-rank and sparsity constraints. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 489-498.	1.9	140

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37	Metabolic Changes in Early Poststatus Epilepticus Measured by MR Spectroscopy in Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1862-1870.	2.4	11
38	Improve myocardial T ₁ measurement in rats with a new regression model: Application to myocardial infarction and beyond. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 737-748.	1.9	9
39	Mapping stain distribution in pathology slides using whole slide imaging. <i>Journal of Pathology Informatics</i> , 2014, 5, 1.	0.8	22
40	Improved Subspace Estimation for Low-Rank Model-Based Accelerated Cardiac Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 2451-2457.	2.5	14
41	Global and regional differences in cerebral blood flow after asphyxial versus ventricular fibrillation cardiac arrest in rats using ASL-MRI. <i>Resuscitation</i> , 2014, 85, 964-971.	1.3	64
42	Imaging Neuroinflammation In Vivo in a Neuropathic Pain Rat Model with Near-Infrared Fluorescence and ¹⁹ F Magnetic Resonance. <i>PLoS ONE</i> , 2014, 9, e90589.	1.1	36
43	Accelerated fluorine- ¹⁹ MRI cell tracking using compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1683-1690.	1.9	60
44	High-Resolution Cardiovascular MRI by Integrating Parallel Imaging With Low-Rank and Sparse Modeling. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 3083-3092.	2.5	50
45	Cerebral Blood Flow Changes after Brain Injury in Human Amyloid-Beta Knock-in Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 826-833.	2.4	19
46	Mri Assessment of Cerebral Blood Flow after Experimental Traumatic Brain Injury Combined with Hemorrhagic Shock in Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 129-136.	2.4	38
47	Magnetic Resonance Imaging Investigation of Macrophages in Acute Cardiac Allograft Rejection After Heart Transplantation. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 965-973.	1.3	36
48	A novel probe for the non-invasive detection of tumor-associated inflammation. <i>Oncolmmunology</i> , 2013, 2, e23034.	2.1	90
49	Engineered Mitochondrial Ferritin as a Magnetic Resonance Imaging Reporter in Mouse Olfactory Epithelium. <i>PLoS ONE</i> , 2013, 8, e72720.	1.1	20
50	Polynitroxyl Albumin and Albumin Therapy after Pediatric Asphyxial Cardiac Arrest: Effects on Cerebral Blood Flow and Neurologic Outcome. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 560-569.	2.4	21
51	Enhanced cellular uptake and long-term retention of chitosan-modified iron-oxide nanoparticles for MRI-based cell tracking. <i>International Journal of Nanomedicine</i> , 2012, 7, 4613.	3.3	53
52	Tracking T-cells in vivo with a new nano-sized MRI contrast agent. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 1345-1354.	1.7	68
53	Automated detection and characterization of SPIO-labeled cells and capsules using magnetic field perturbations. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 278-289.	1.9	30
54	¹⁹ F MRI detection of acute allograft rejection with in vivo perfluorocarbon labeling of immune cells. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1144-1153.	1.9	108

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55	Quantitative Temporal Profiles of Penumbra and Infarction During Permanent Middle Cerebral Artery Occlusion in Rats. <i>Translational Stroke Research</i> , 2010, 1, 220-229.	2.3	36
56	Magnetic Resonance Imaging Assessment of Macrophage Accumulation in Mouse Brain after Experimental Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2009, 26, 1509-1519.	1.7	45
57	Age-related peridural hyperemia in craniostomotic rabbits. <i>Child's Nervous System</i> , 2009, 25, 861-866.	0.6	5
58	Magnetic Resonance Imaging Assessment of Regional Cerebral Blood Flow after Asphyxial Cardiac Arrest in Immature Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 197-205.	2.4	78
59	Noninvasive Evaluation of Cardiac Allograft Rejection by Cellular and Functional Cardiac Magnetic Resonance. <i>JACC: Cardiovascular Imaging</i> , 2009, 2, 731-741.	2.3	61
60	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. <i>Circulation</i> , 2008, 118, 149-156.	1.6	66
61	Effect of Inducible Nitric Oxide Synthase on Cerebral Blood Flow after Experimental Traumatic Brain Injury in Mice. <i>Journal of Neurotrauma</i> , 2008, 25, 299-310.	1.7	26
62	Testing Causal Mechanisms of Nonsyndromic Craniostomosis Using Path Analysis of Cranial Contents in Rabbits with Uncorrected Craniostomosis. <i>Cleft Palate-Craniofacial Journal</i> , 2006, 43, 524-531.	0.5	7
63	In situ labeling of immune cells with iron oxide particles: An approach to detect organ rejection by cellular MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1852-1857.	3.3	599
64	Sequence-specific Interactions in the RNA-binding Domain of Escherichia coli Transcription Termination Factor Rho. <i>Journal of Biological Chemistry</i> , 2006, 281, 33697-33703.	1.6	8
65	Age-related changes in lateral ventricle morphology in craniostomotic rabbits using magnetic resonance imaging. <i>Child's Nervous System</i> , 2005, 21, 385-391.	0.6	12
66	Normal and Transplanted Rat Kidneys: Diffusion MR Imaging at 7 T. <i>Radiology</i> , 2004, 231, 702-709.	3.6	60
67	A Non-Invasive Approach to Detecting Organ Rejection by MRI: Monitoring the Accumulation of Immune Cells At the Transplanted Organ. <i>Current Pharmaceutical Biotechnology</i> , 2004, 5, 551-566.	0.9	51
68	Data requirements for reliable chemical shift assignments in deuterated proteins. <i>Journal of Biomolecular NMR</i> , 2003, 25, 11-23.	1.6	4
69	MONTE: An automated Monte Carlo based approach to nuclear magnetic resonance assignment of proteins. <i>Journal of Biomolecular NMR</i> , 2003, 25, 1-9.	1.6	77
70	Pressure Dependence of Weak Acid Ionization in Deuterium Oxide Solutions. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1002-1004.	1.2	7
71	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. <i>Journal of Medicinal Chemistry</i> , 1995, 38, 771-793.	2.9	100