

Andrea Kassner

List of Publications by Year in descending order

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64
papers

3,216
citations

270111

25
h-index

169272

56
g-index

64
all docs

64
docs citations

64
times ranked

4550
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperpolarized ¹²⁹ Xe MRI of the rat brain with chemical shift saturation recovery and spiral-IDEAL readout. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1971-1979.	1.9	6
2	Fronto-Parietal and White Matter Haemodynamics Predict Cognitive Outcome in Children with Moyamoya Independent of Stroke. <i>Translational Stroke Research</i> , 2022, 13, 757-773.	2.3	3
3	Effect of inhaled oxygen concentration on ¹²⁹ Xe chemical shift of red blood cells in rat lungs. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1187-1193.	1.9	2
4	Distinct Clinical and Radiographic Phenotypes in Pediatric Patients With Moyamoya. <i>Pediatric Neurology</i> , 2021, 120, 18-26.	1.0	18
5	Wallerian Degeneration of the Cerebral Peduncle and Association with Motor Outcome in Childhood Stroke. <i>Pediatric Neurology</i> , 2020, 102, 67-73.	1.0	6
6	Chemical shift of ¹²⁹ Xe dissolved in red blood cells: Application to a rat model of bronchopulmonary dysplasia. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 52-60.	1.9	5
7	Positional obstructive sleep apnea in an obese pediatric population. <i>Journal of Clinical Sleep Medicine</i> , 2020, 16, 1295-1301.	1.4	12
8	Positional obstructive sleep apnea in an obese pediatric population. <i>Journal of Clinical Sleep Medicine</i> , 2020, , .	1.4	0
9	Ultrasound Detection of Abnormal Cerebrovascular Morphology in a Mouse Model of Sickle Cell Disease Based on Wave Reflection. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 3269-3278.	0.7	6
10	Hydroxycarbamide treatment in children with Sickle Cell Anaemia is associated with more intact white matter integrity: a quantitative MRI study. <i>British Journal of Haematology</i> , 2019, 187, 238-245.	1.2	11
11	Quantification of pathophysiological alterations in venous oxygen saturation: A comparison of global MR susceptometry techniques. <i>Magnetic Resonance Imaging</i> , 2019, 58, 18-23.	1.0	11
12	Evaluation of Blood-Brain Barrier Permeability and Integrity in Juvenile Rodents: Dynamic Contrast-Enhanced (DCE), Magnetic Resonance Imaging (MRI), and Evans Blue Extravasation. <i>Neuroinformatics</i> , 2019, , 299-314.	0.2	1
13	Breath-Hold Blood Oxygen Level-Dependent MRI: A Tool for the Assessment of Cerebrovascular Reserve in Children with Moyamoya Disease. <i>American Journal of Neuroradiology</i> , 2018, 39, 1717-1723.	1.2	55
14	Functional and anatomical evidence of cerebral tissue hypoxia in young sickle cell anemia mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 994-1005.	2.4	23
15	Cerebrovascular Reactivity and Intellectual Outcome in Childhood Stroke With Transient Cerebral Arteriopathy. <i>Pediatric Neurology</i> , 2017, 69, 71-78.	1.0	10
16	The Potential for Advanced Magnetic Resonance Neuroimaging Techniques in Pediatric Stroke Research. <i>Pediatric Neurology</i> , 2017, 69, 24-36.	1.0	8
17	The severity of anaemia depletes cerebrovascular dilatory reserve in children with sickle cell disease: a quantitative magnetic resonance imaging study. <i>British Journal of Haematology</i> , 2017, 176, 280-287.	1.2	60
18	Normal appearing white matter permeability: a marker of inflammation and information processing speed deficit among relapsing remitting multiple sclerosis patients. <i>Neuroradiology</i> , 2017, 59, 771-780.	1.1	5

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19	Assessment of cerebral blood flow with magnetic resonance imaging in children with sickle cell disease: A quantitative comparison with transcranial Doppler ultrasonography. <i>Brain and Behavior</i> , 2017, 7, e00811.	1.0	12
20	Evolution of blood-brain-barrier permeability after acute ischemic stroke. <i>PLoS ONE</i> , 2017, 12, e0171558.	1.1	127
21	Developmental trajectories of cerebrovascular reactivity in healthy children and young adults assessed with magnetic resonance imaging. <i>Journal of Physiology</i> , 2016, 594, 2681-2689.	1.3	40
22	MRI-based cerebrovascular reactivity using transfer function analysis reveals temporal group differences between patients with sickle cell disease and healthy controls. <i>NeuroImage: Clinical</i> , 2016, 12, 624-630.	1.4	25
23	Reduced cerebrovascular reserve is regionally associated with cortical thickness reductions in children with sickle cell disease. <i>Brain Research</i> , 2016, 1642, 263-269.	1.1	24
24	Reproducibility of cerebrovascular reactivity measures in children using BOLD MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 1191-1195.	1.9	20
25	Longitudinal Assessment of Imatinib's Effect on the Blood-Brain Barrier After Ischemia/Reperfusion Injury with Permeability MRI. <i>Translational Stroke Research</i> , 2015, 6, 39-49.	2.3	41
26	Assessment of Blood-Brain Barrier Disruption in Stroke. <i>Stroke</i> , 2015, 46, 3310-3315.	1.0	115
27	Dynamic contrast-enhanced MRI and CT provide comparable measurement of blood-brain barrier permeability in a rodent stroke model. <i>Magnetic Resonance Imaging</i> , 2015, 33, 1007-1012.	1.0	11
28	Transfusion Therapy and Hydroxyurea Improves Cerebrovascular Reserve and Perfusion in Children with Sickle Cell Anemia: An MRI Study. <i>Blood</i> , 2015, 126, 3397-3397.	0.6	0
29	Quantitative MRI of Hemodynamic Compromise in Children with Sickle Cell Disease: New Insights into Pathophysiology. <i>Blood</i> , 2015, 126, 2168-2168.	0.6	1
30	Physiologic characterization of inflammatory arthritis in a rabbit model with BOLD and DCE MRI at 1.5 Tesla. <i>European Radiology</i> , 2014, 24, 2766-2778.	2.3	4
31	Neuroproteome Changes after Ischemia/Reperfusion Injury and Tissue Plasminogen Activator Administration in Rats: A Quantitative iTRAQ Proteomics Study. <i>PLoS ONE</i> , 2014, 9, e98706.	1.1	13
32	Assessing the Effect of Short and Long-Term Hydroxyurea Treatment on Cerebral Hemodynamics in Children with Sickle Cell Anemia Using Quantitative MRI: Preliminary Findings. <i>Blood</i> , 2014, 124, 4090-4090.	0.6	0
33	A Novel <i>mCAD</i> for pediatric metabolic brain diseases incorporating DW imaging and MR spectroscopy. <i>Expert Systems</i> , 2013, 30, 21-33.	2.9	2
34	Cerebral Blood Flow Abnormalities in Children With Sickle Cell Disease: A Systematic Review. <i>Pediatric Neurology</i> , 2013, 48, 188-199.	1.0	17
35	Assessment of intracranial blood flow velocities using a computer controlled vasoactive stimulus: A comparison between phase contrast magnetic resonance angiography and transcranial doppler ultrasonography. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 733-738.	1.9	16
36	Measuring Permeability in Acute Ischemic Stroke. <i>Neuroimaging Clinics of North America</i> , 2011, 21, 315-325.	0.5	26

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37	Noninvasive MRI Measures of Microstructural and Cerebrovascular Changes During Normal Swine Brain Development. <i>Pediatric Research</i> , 2011, 69, 418-424.	1.1	27
38	Measurement of Cerebrovascular Reactivity in Pediatric Patients With Cerebral Vasculopathy Using Blood Oxygen Level-Dependent MRI. <i>Stroke</i> , 2011, 42, 1261-1269.	1.0	43
39	Measuring the Integrity of the Human Blood-Brain Barrier Using Magnetic Resonance Imaging. <i>Methods in Molecular Biology</i> , 2011, 686, 229-245.	0.4	24
40	Sex differences in the human corpus callosum microstructure: A combined T2 myelin-water and diffusion tensor magnetic resonance imaging study. <i>Brain Research</i> , 2010, 1343, 37-45.	1.1	67
41	Assessment of tumor angiogenesis: dynamic contrast-enhanced MRI with paramagnetic nanoparticles compared with Gd-DTPA in a rabbit VX2 tumor model. <i>Contrast Media and Molecular Imaging</i> , 2010, 5, 155-161.	0.4	9
42	Blood-oxygen level dependent MRI measures of cerebrovascular reactivity using a controlled respiratory challenge: Reproducibility and gender differences. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 298-304.	1.9	89
43	Feasibility and precision of cerebral blood flow and cerebrovascular reactivity MRI measurements using a computer-controlled gas delivery system in an anesthetised juvenile animal model. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 1068-1075.	1.9	8
44	Evaluation of Diffusion Tensor Imaging and Fiber Tractography of the Median Nerve: Preliminary Results on Intrasubject Variability and Precision of Measurements. <i>American Journal of Roentgenology</i> , 2010, 194, W65-W72.	1.0	54
45	Texture Analysis: A Review of Neurologic MR Imaging Applications. <i>American Journal of Neuroradiology</i> , 2010, 31, 809-816.	1.2	335
46	Recombinant Tissue Plasminogen Activator Increases Blood-Brain Barrier Disruption in Acute Ischemic Stroke: An MR Imaging Permeability Study. <i>American Journal of Neuroradiology</i> , 2009, 30, 1864-1869.	1.2	67
47	Comparison of spiral imaging and SENSE-EPI at 1.5 and 3.0 T using a controlled cerebrovascular challenge. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 1206-1210.	1.9	4
48	Prediction of hemorrhagic transformation in acute ischemic stroke using texture analysis of postcontrast T1-weighted MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 933-941.	1.9	51
49	Diffusion tensor imaging and fiber tractography of the median nerve at 1.5T: optimization of b value. <i>Skeletal Radiology</i> , 2009, 38, 51-59.	1.2	47
50	Quantitative permeability magnetic resonance imaging in acute ischemic stroke: how long do we need to scan?. <i>Magnetic Resonance Imaging</i> , 2009, 27, 1216-1222.	1.0	25
51	Relative Recirculation. <i>Investigative Radiology</i> , 2009, 44, 662-668.	3.5	34
52	Selective Reduction of Blood Flow to White Matter During Hypercapnia Corresponds With Leukoaraiosis. <i>Stroke</i> , 2008, 39, 1993-1998.	1.0	106
53	Diffusion Tensor Magnetic Resonance Imaging of the Human Calf. <i>Investigative Radiology</i> , 2008, 43, 612-618.	3.5	23
54	Evaluation of Subcortical White Matter and Deep White Matter Tracts in Malformations of Cortical Development. <i>Epilepsia</i> , 2007, 48, 1460-1469.	2.6	80

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55	Preoperative and postoperative mapping of cerebrovascular reactivity in moyamoya disease by using blood oxygen level-dependent magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 2005, 103, 347-355.	0.9	95
56	Fiber density index correlates with reduced fractional anisotropy in white matter of patients with glioblastoma. <i>American Journal of Neuroradiology</i> , 2005, 26, 2183-6.	1.2	91
57	Prediction of hemorrhage in acute ischemic stroke using permeability MR imaging. <i>American Journal of Neuroradiology</i> , 2005, 26, 2213-7.	1.2	81
58	Beyond Perfusion. <i>Topics in Magnetic Resonance Imaging</i> , 2004, 15, 58-65.	0.7	19
59	Neoangiogenesis in association with moyamoya syndrome shown by estimation of relative recirculation based on dynamic contrast-enhanced MR images. <i>American Journal of Neuroradiology</i> , 2003, 24, 810-8.	1.2	15
60	Molecular imaging of angiogenesis in nascent Vx-2 rabbit tumors using a novel alpha(nu)beta3-targeted nanoparticle and 1.5 tesla magnetic resonance imaging. <i>Cancer Research</i> , 2003, 63, 5838-43.	0.4	323
61	Abnormalities in the recirculation phase of contrast agent bolus passage in cerebral gliomas: comparison with relative blood volume and tumor grade. <i>American Journal of Neuroradiology</i> , 2002, 23, 7-14.	1.2	213
62	Measurements of left ventricular dimensions using real-time acquisition in cardiac magnetic resonance imaging: comparison with conventional gradient echo imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2001, 13, 101-108.	1.1	8
63	Contrast-enhanced 3D MRA using SENSE. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 12, 671-677.	1.9	221
64	Stepping-Table Gadolinium-enhanced Digital Subtraction MR Angiography of the Aorta and Lower Extremity Arteries: Preliminary Experience. <i>Radiology</i> , 1999, 211, 59-67.	3.6	321