

Aaron S Field

List of Publications by Year in descending order

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48
papers

5,099
citations

270111

25
h-index

274796

44
g-index

48
all docs

48
docs citations

48
times ranked

9552
citing authors

#	ARTICLE	IF	CITATIONS
1	Wheat from the Chaff: Denoising Functional MRI Data. <i>Radiology</i> , 2021, 299, 49-50.	3.6	0
2	Diffusion Tensor Imaging of Visual Pathway Abnormalities in Five Glaucoma Animal Models. , 2021, 62, 21.		9
3	The Connectomes: Methods of White Matter Tractography and Contributions of Resting State fMRI. <i>Seminars in Ultrasound, CT and MRI</i> , 2021, 42, 507-522.	0.7	6
4	Simultaneous T1 α -weighted and T2 α -weighted 3D MRI using RF phase α -modulated gradient echo imaging. <i>Magnetic Resonance in Medicine</i> , 2021, 87, 1758.	1.9	0
5	High-resolution diffusion tensor magnetic resonance imaging of the brainstem safe entry zones. <i>Neurosurgical Review</i> , 2020, 43, 153-167.	1.2	12
6	Feline irradiated diet-induced demyelination; a model of the neuropathology of sub-acute combined degeneration?. <i>PLoS ONE</i> , 2020, 15, e0228109.	1.1	3
7	Evoked potentials as a biomarker of remyelination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 27074-27083.	3.3	37
8	Conventional and quantitative MRI in a novel feline model of demyelination and endogenous remyelination. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1304-1311.	1.9	10
9	Hypertrophic Olivary Degeneration: Neurosurgical Perspective and Literature Review. <i>World Neurosurgery</i> , 2018, 112, e763-e771.	0.7	30
10	A General Framework for Monitoring Image Acquisition Workflow in the Radiology Environment: Timeliness for Acute Stroke CT Imaging. <i>Journal of Digital Imaging</i> , 2018, 31, 201-209.	1.6	3
11	Robust Motion Correction Strategy for Structural MRI in Unsedated Children Demonstrated with Three-dimensional Radial MPnRAGE. <i>Radiology</i> , 2018, 289, 509-516.	3.6	33
12	The Impact of Intracranial Tumor Proximity to White Matter Tracts on Morbidity and Mortality: A Retrospective Diffusion Tensor Imaging Study. <i>Neurosurgery</i> , 2017, 80, 193-200.	0.6	14
13	Workflow Dynamics and the Imaging Value Chain: Quantifying the Effect of Designating a Nonimage-Interpretive Task Workflow. <i>Current Problems in Diagnostic Radiology</i> , 2017, 46, 275-281.	0.6	14
14	Usage of fMRI for pre-surgical planning in brain tumor and vascular lesion patients: Task and statistical threshold effects on language lateralization. <i>NeuroImage: Clinical</i> , 2015, 7, 415-423.	1.4	34
15	Removal of cerebrospinal fluid partial volume effects in quantitative magnetization transfer imaging using a three α -pool model with nonexchanging water component. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1317-1326.	1.9	18
16	Mean apparent diffusion coefficient values in defining radiotherapy planning target volumes in glioblastoma. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 835-45.	1.1	8
17	Clinical Applications of Diffusion Tensor Imaging. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2013, 21, 279-298.	0.6	23
18	Association of functional magnetic resonance imaging indices with postoperative language outcomes in patients with primary brain tumors. <i>Neurosurgical Focus</i> , 2013, 34, E6.	1.0	36

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19	Calorie Restriction Reduces the Influence of Glucoregulatory Dysfunction on Regional Brain Volume in Aged Rhesus Monkeys. <i>Diabetes</i> , 2012, 61, 1036-1042.	0.3	44
20	Homocysteine, neural atrophy, and the effect of caloric restriction in rhesus monkeys. <i>Neurobiology of Aging</i> , 2012, 33, 670-680.	1.5	26
21	Quantitative MR imaging of two-pool magnetization transfer model parameters in myelin mutant shaking pup. <i>NeuroImage</i> , 2012, 62, 1390-1398.	2.1	60
22	Calorie restriction reduces psychological stress reactivity and its association with brain volume and microstructure in aged rhesus monkeys. <i>Psychoneuroendocrinology</i> , 2012, 37, 903-916.	1.3	36
23	Extracting Quantitative Measures from EAP: A Small Clinical Study Using BFOR. <i>Lecture Notes in Computer Science</i> , 2012, 15, 280-287.	1.0	5
24	High b-value and diffusion tensor imaging in a canine model of dysmyelination and brain maturation. <i>NeuroImage</i> , 2011, 58, 829-837.	2.1	55
25	Age- and gender-related changes in the normal human brain using hybrid diffusion imaging (HYDI). <i>NeuroImage</i> , 2011, 54, 1840-1853.	2.1	114
26	Diffusion Tensor Magnetic Resonance Imaging: Physical Principles. , 2011, , 709-729.		0
27	Characterization of Cerebral White Matter Properties Using Quantitative Magnetic Resonance Imaging Stains. <i>Brain Connectivity</i> , 2011, 1, 423-446.	0.8	387
28	A Calorie-Restricted Diet Decreases Brain Iron Accumulation and Preserves Motor Performance in Old Rhesus Monkeys. <i>Journal of Neuroscience</i> , 2010, 30, 7940-7947.	1.7	64
29	Computation of Diffusion Function Measures in q -Space Using Magnetic Resonance Hybrid Diffusion Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 858-865.	5.4	75
30	Reconstruction of MRI Data Using Sparse Matrix Inverses. <i>Conference Record of the Asilomar Conference on Signals, Systems and Computers</i> , 2007, , .	0.0	1
31	Diffusion tensor imaging of the brain. <i>Neurotherapeutics</i> , 2007, 4, 316-329.	2.1	2,186
32	Variability of clinical CT perfusion measurements in patients with carotid stenosis. <i>Neuroradiology</i> , 2007, 49, 955-961.	1.1	19
33	Comparison of Diffusion Tensor Imaging Measurements at 3.0 T versus 1.5 T with and without Parallel Imaging. <i>Neuroimaging Clinics of North America</i> , 2006, 16, 299-309.	0.5	81
34	Principal Diffusion Direction in Peritumoral Fiber Tracts: Color Map Patterns and Directional Statistics. <i>Annals of the New York Academy of Sciences</i> , 2005, 1064, 193-201.	1.8	18
35	Diffusion tensor imaging at the crossroads: fiber tracking meets tissue characterization in brain tumors. <i>American Journal of Neuroradiology</i> , 2005, 26, 2168-9.	1.2	13
36	Diffusion tensor imaging of the corticospinal tract before and after mass resection as correlated with clinical motor findings: preliminary data. <i>American Journal of Neuroradiology</i> , 2005, 26, 791-6.	1.2	81

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37	Diffusion tensor eigenvector directional color imaging patterns in the evaluation of cerebral white matter tracts altered by tumor. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 20, 555-562.	1.9	158
38	Quantitative analysis of diffusion tensor orientation: Theoretical framework. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1146-1155.	1.9	37
39	Diffusion Tensor Imaging in Cerebral Tumor Diagnosis and Therapy. <i>Topics in Magnetic Resonance Imaging</i> , 2004, 15, 315-324.	0.7	68
40	Diffusion tensor imaging of cerebral white matter: a pictorial review of physics, fiber tract anatomy, and tumor imaging patterns. <i>American Journal of Neuroradiology</i> , 2004, 25, 356-69.	1.2	480
41	Dietary Caffeine Consumption and Withdrawal: Confounding Variables in Quantitative Cerebral Perfusion Studies?. <i>Radiology</i> , 2003, 227, 129-135.	3.6	102
42	Diffusion tensor imaging in an infant with traumatic brain swelling. <i>American Journal of Neuroradiology</i> , 2003, 24, 1461-4.	1.2	24
43	Relationship between caffeine-induced changes in resting cerebral perfusion and blood oxygenation level-dependent signal. <i>American Journal of Neuroradiology</i> , 2003, 24, 1607-11.	1.2	54
44	Deactivation of Sensory-Specific Cortex by Cross-Modal Stimuli. <i>Journal of Cognitive Neuroscience</i> , 2002, 14, 420-429.	1.1	353
45	Dietary Caffeine Consumption Modulates fMRI Measures. <i>NeuroImage</i> , 2002, 17, 751-757.	2.1	120
46	Test-retest reproducibility of quantitative CBF measurements using FAIR perfusion MRI and acetazolamide challenge. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 921-928.	1.9	84
47	Dietary caffeine consumption modulates fMRI measures. <i>NeuroImage</i> , 2002, 17, 751-7.	2.1	51
48	The effect of pulsed microwaves on passive electrical properties and interspike intervals of snail neurons. <i>Bioelectromagnetics</i> , 1993, 14, 503-520.	0.9	13