

Allen W Song

List of Publications by Year in descending order

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79
papers

3,692
citations

147566
31
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138251
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79
all docs

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docs citations

79
times ranked

5112
citing authors

#	ARTICLE	IF	CITATIONS
1	Decisions under Uncertainty: Probabilistic Context Influences Activation of Prefrontal and Parietal Cortices. <i>Journal of Neuroscience</i> , 2005, 25, 3304-3311.	1.7	390
2	Cerebral White Matter Integrity and Cognitive Aging: Contributions from Diffusion Tensor Imaging. <i>Neuropsychology Review</i> , 2009, 19, 415-435.	2.5	383
3	Diffusion tensor imaging of cerebral white matter integrity in cognitive aging. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012, 1822, 386-400.	1.8	380
4	Diffusion weighted fMRI at 1.5 T. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 155-158.	1.9	202
5	Effects of Repetitive Transcranial Magnetic Stimulation on Motor Symptoms in Parkinson Disease. <i>JAMA Neurology</i> , 2015, 72, 432.	4.5	169
6	Optimized isotropic diffusion weighting. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 139-143.	1.9	155
7	A randomized proof-of-mechanism trial applying the "fast-fail" approach to evaluating μ -opioid antagonism as a treatment for anhedonia. <i>Nature Medicine</i> , 2020, 26, 760-768.	15.2	129
8	Effect of Autologous Cord Blood Infusion on Motor Function and Brain Connectivity in Young Children with Cerebral Palsy: A Randomized, Placebo-Controlled Trial. <i>Stem Cells Translational Medicine</i> , 2017, 6, 2071-2078.	1.6	110
9	Amygdala Activation to Sad Pictures During High-Field (4 Tesla) Functional Magnetic Resonance Imaging. <i>Emotion</i> , 2005, 5, 12-22.	1.5	102
10	Single-shot EPI with signal recovery from the susceptibility-induced losses. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 407-411.	1.9	67
11	Integrated parallel reception, excitation, and shimming (iPRES). <i>Magnetic Resonance in Medicine</i> , 2013, 70, 241-247.	1.9	66
12	Integrated RF/shim coil array for parallel reception and localized B ₀ shimming in the human brain. <i>NeuroImage</i> , 2014, 103, 235-240.	2.1	65
13	Brain structural connectivity increases concurrent with functional improvement: Evidence from diffusion tensor MRI in children with cerebral palsy during therapy. <i>NeuroImage: Clinical</i> , 2015, 7, 315-324.	1.4	60
14	Human brain diffusion tensor imaging at submillimeter isotropic resolution on a 3 Tesla clinical MRI scanner. <i>NeuroImage</i> , 2015, 118, 667-675.	2.1	56
15	The first implementation of the NIMH FAST-FAIL approach to psychiatric drug development. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 82-84.	21.5	52
16	Enhanced Spatial Localization of Neuronal Activation Using Simultaneous Apparent-Diffusion-Coefficient and Blood-Oxygenation Functional Magnetic Resonance Imaging. <i>NeuroImage</i> , 2002, 17, 742-750.	2.1	51
17	Functional activation using apparent diffusion coefficient-dependent contrast allows better spatial localization to the neuronal activity: evidence using diffusion tensor imaging and fiber tracking. <i>NeuroImage</i> , 2003, 20, 955-961.	2.1	49
18	Echo-volume imaging. <i>Magnetic Resonance in Medicine</i> , 1994, 32, 668-671.	1.9	45

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19	Technical Foundations and Pitfalls of Clinical fMRI. <i>NeuroImage</i> , 1996, 4, S63-S75.	2.1	42
20	Single-shot spiral image acquisition with embedded z-shimming for susceptibility signal recovery. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 18, 389-395.	1.9	41
21	Association between increased magnetic susceptibility of deep gray matter nuclei and decreased motor function in healthy adults. <i>NeuroImage</i> , 2015, 105, 45-52.	2.1	41
22	Motion immune diffusion imaging using augmented MUSE for high-resolution multi-shot EPI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 639-652.	1.9	39
23	Cortical and Subcortical Coordination of Visual Spatial Attention Revealed by Simultaneous EEG-fMRI Recording. <i>Journal of Neuroscience</i> , 2017, 37, 7803-7810.	1.7	39
24	On the timing characteristics of the apparent diffusion coefficient contrast in fMRI. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 385-388.	1.9	38
25	3D-MB-MUSE: A robust 3D multi-slab, multi-band and multi-shot reconstruction approach for ultrahigh resolution diffusion MRI. <i>NeuroImage</i> , 2017, 159, 46-56.	2.1	38
26	Correction for direction-dependent distortions in diffusion tensor imaging using matched magnetic field maps. <i>NeuroImage</i> , 2006, 30, 121-129.	2.1	37
27	The BOLD fMRI refractory effect is specific to stimulus attributes: evidence from a visual motion paradigm. <i>NeuroImage</i> , 2004, 23, 402-408.	2.1	36
28	Diffuse reduction of white matter connectivity in cerebral palsy with specific vulnerability of long range fiber tracts. <i>NeuroImage: Clinical</i> , 2013, 2, 440-447.	1.4	36
29	Lorentz effect imaging. <i>Magnetic Resonance Imaging</i> , 2001, 19, 763-767.	1.0	35
30	Finding neuroelectric activity under magnetic-field oscillations (NAMO) with magnetic resonance imaging in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12598-12601.	3.3	35
31	A Phase II Randomized Clinical Trial of the Safety and Efficacy of Intravenous Umbilical Cord Blood Infusion for Treatment of Children with Autism Spectrum Disorder. <i>Journal of Pediatrics</i> , 2020, 222, 164-173.e5.	0.9	34
32	Cortical Depth Dependence of the Diffusion Anisotropy in the Human Cortical Gray Matter In Vivo. <i>PLoS ONE</i> , 2014, 9, e91424.	1.1	33
33	Improved Delineation of Short Cortical Association Fibers and Gray/White Matter Boundary Using Whole-Brain Three-Dimensional Diffusion Tensor Imaging at Submillimeter Spatial Resolution. <i>Brain Connectivity</i> , 2014, 4, 636-640.	0.8	33
34	White Matter Tract Changes Associated with Clinical Improvement in an Open-Label Trial Assessing Autologous Umbilical Cord Blood for Treatment of Young Children with Autism. <i>Stem Cells Translational Medicine</i> , 2019, 8, 138-147.	1.6	33
35	Single-shot dual-z-shimmed sensitivity-encoded spiral-in/out imaging for functional MRI with reduced susceptibility artifacts. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 221-227.	1.9	32
36	Maintenance and Representation of Mind Wandering during Resting-State fMRI. <i>Scientific Reports</i> , 2017, 7, 40722.	1.6	30

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37	Improved spatial localization based on flow-moment-nulled and intra-voxel incoherent motion-weighted fMRI. NMR in Biomedicine, 2003, 16, 137-143.	1.6	27
38	Integrated parallel reception, excitation, and shimming (iPRES) with multiple shim loops per radio-frequency coil element for improved B_0 shimming. Magnetic Resonance in Medicine, 2017, 77, 2077-2086.	1.9	25
39	Magnetic resonance imaging with lateralized arterial spin labeling. Magnetic Resonance Imaging, 2002, 20, 583-586.	1.0	24
40	Dependence of gradient-echo and spin-echo BOLD fMRI at 4T on diffusion weighting. NMR in Biomedicine, 2006, 19, 566-572.	1.6	23
41	Preschool Anxiety Disorders Predict Different Patterns of Amygdala-Prefrontal Connectivity at School-Age. PLoS ONE, 2015, 10, e0116854.	1.1	21
42	Integrated SENSE DTI with correction of susceptibility- and eddy current-induced geometric distortions. NeuroImage, 2008, 40, 53-58.	2.1	20
43	Dynamic correction of artifacts due to susceptibility effects and time-varying eddy currents in diffusion tensor imaging. NeuroImage, 2011, 57, 1343-1347.	2.1	20
44	Lorentz effect imaging of ionic currents in solution. Journal of Magnetic Resonance, 2008, 191, 93-99.	1.2	19
45	Phase-updated regularized SENSE for navigator-free multishot diffusion imaging. Magnetic Resonance in Medicine, 2017, 78, 172-181.	1.9	19
46	Synchronized detection of minute electrical currents with MRI using Lorentz effect imaging. Journal of Magnetic Resonance, 2006, 179, 85-91.	1.2	17
47	Cortical depth dependence and implications on the neuronal specificity of the functional apparent diffusion coefficient contrast. NeuroImage, 2009, 47, 65-68.	2.1	16
48	BOLD signal compartmentalization based on the apparent diffusion coefficient. Magnetic Resonance Imaging, 2002, 20, 521-525.	1.0	15
49	Diffusion tensor imaging fiber tracking with local tissue property sensitivity: phantom and in vivo validation. Magnetic Resonance Imaging, 2008, 26, 103-108.	1.0	15
50	Structural connectome differences in HIV infection: brain network segregation associated with nadir CD4 cell count. Journal of NeuroVirology, 2018, 24, 454-463.	1.0	15
51	Enhanced spatial localization of neuronal activation using simultaneous apparent-diffusion-coefficient and blood-oxygenation functional magnetic resonance imaging. NeuroImage, 2002, 17, 742-50.	2.1	15
52	B factor dependence of the temporal characteristics of brain activation using dynamic apparent diffusion coefficient contrast. Magnetic Resonance in Medicine, 2004, 52, 1432-1437.	1.9	14
53	Toward direct MRI of neuronal magnetic oscillations in the human brain. Magnetic Resonance in Medicine, 2019, 81, 3462-3475.	1.9	13
54	Recent Advances in Radio-Frequency Coil Technologies: Flexible, Wireless, and Integrated Coil Arrays. Journal of Magnetic Resonance Imaging, 2022, 55, 1026-1042.	1.9	13

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55	The spatial and temporal characteristics of the apparent-diffusion-coefficient-dependent fMRI signal changes during visual stimulation. <i>Journal of Neural Engineering</i> , 2004, 1, 32-38.	1.8	12
56	Endogenous functional CBV contrast revealed by diffusion weighting. <i>NMR in Biomedicine</i> , 2006, 19, 1020-1027.	1.6	12
57	Dynamic and inherent B ₀ correction for DTI using stimulated echo spiral imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1044-1053.	1.9	12
58	Cortical iron mediates age-related decline in fluid cognition. <i>Human Brain Mapping</i> , 2022, 43, 1047-1060.	1.9	12
59	Fast functional brain signal changes detected by diffusion weighted fMRI. <i>Magnetic Resonance Imaging</i> , 2003, 21, 829-833.	1.0	11
60	Single-shot ADC imaging for fMRI. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 417-422.	1.9	10
61	Diffusion modulation of the fMRI signal: Early investigations on the origin of the BOLD signal. <i>NeuroImage</i> , 2012, 62, 949-952.	2.1	10
62	Simultaneous and inherent correction of B ₀ and eddy-current induced distortions in high-resolution diffusion MRI using reversed polarity gradients and multiplexed sensitivity encoding (RPG-MUSE). <i>NeuroImage</i> , 2018, 183, 985-993.	2.1	10
63	Measuring robustness of brain networks in autism spectrum disorder with Ricci curvature. <i>Scientific Reports</i> , 2020, 10, 10819.	1.6	10
64	Adaptive integrated parallel reception, excitation, and shimming (iPRES-A) with microelectromechanical systems switches. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 371-379.	1.9	9
65	Magnetic resonance imaging volumetric analysis in patients with Alternating hemiplegia of childhood: A pilot study. <i>European Journal of Paediatric Neurology</i> , 2020, 26, 15-19.	0.7	9
66	Component structure of event-related fMRI responses in the different neurovascular compartments. <i>Magnetic Resonance Imaging</i> , 2007, 25, 328-334.	1.0	8
67	DTI Tract-Based Quantitative Susceptibility Mapping: An Initial Feasibility Study to Investigate the Potential Role of Myelination in Brain Connectivity Change in Cerebral Palsy Patients During Autologous Cord Blood Cell Therapy Using a Rotationally Invariant Quantitative Measure. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 251-258.	1.9	8
68	Integrated radio-frequency/wireless coil design for simultaneous MR image acquisition and wireless communication. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2176-2183.	1.9	7
69	Segmented spin-echo pulses to increase fMRI signal: Repeated intrinsic diffusional enhancement. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 631-635.	1.9	6
70	Differentiating Sensitivity of Post-Stimulus Undershoot under Diffusion Weighting: Implication of Vascular and Neuronal Hierarchy. <i>PLoS ONE</i> , 2008, 3, e2914.	1.1	6
71	Frontal Hypoactivation During a Working Memory Task in Children With 22q11 Deletion Syndrome. <i>Journal of Child Neurology</i> , 2017, 32, 94-99.	0.7	6
72	Correction for Eddy Current-Induced Echo-Shifting Effect in Partial-Fourier Diffusion Tensor Imaging. <i>BioMed Research International</i> , 2015, 2015, 1-12.	0.9	5

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73	Application of an integrated radio-frequency/shim coil technology for signal recovery in fMRI. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 3067-3081.	1.9	5
74	FMRI signal source analysis using diffusion-weighted spiral-in acquisition. , 2004, 2004, 4417-20.		3
75	Apparent diffusion coefficient dependent fMRI: Spatiotemporal characteristics and implications on calibrated fMRI. <i>International Journal of Imaging Systems and Technology</i> , 2010, 20, 42-50.	2.7	2
76	Dynamic MRI of Small Electrical Activity. <i>Methods in Molecular Biology</i> , 2008, 489, 297-315.	0.4	2
77	An <i>iPRES</i> Coil Array for Simultaneous Imaging and Wireless Localized <i>B₀</i> Shimming of the Cervical Spinal Cord. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1002-1014.	1.9	2
78	Strengthened and posterior-shifted structural rich-club organization in people who use cocaine. <i>Drug and Alcohol Dependence</i> , 2022, 235, 109436.	1.6	1
79	Functional Magnetic Resonance Imaging. , 2012, , 265-278.		0