

# Sheng-Kwei Victor Song

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

5,143  
citations

394421

19  
h-index

302126

39  
g-index

46  
all docs

46  
docs citations

46  
times ranked

7653  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion tensor imaging detects and differentiates axon and myelin degeneration in mouse optic nerve after retinal ischemia. <i>NeuroImage</i> , 2003, 20, 1714-1722.	4.2	1,593
2	Demyelination increases radial diffusivity in corpus callosum of mouse brain. <i>NeuroImage</i> , 2005, 26, 132-140.	4.2	1,482
3	Ciliogenesis and Left-Right Axis Defects in Forkhead Factor HFH-4-Null Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2000, 23, 45-51.	2.9	330
4	Quantification of increased cellularity during inflammatory demyelination. <i>Brain</i> , 2011, 134, 3590-3601.	7.6	317
5	High-resolution MRI characterization of human thrombus using a novel fibrin-targeted paramagnetic nanoparticle contrast agent. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 867-872.	3.0	247
6	Bioresorbable pressure sensors protected with thermally grown silicon dioxide for the monitoring of chronic diseases and healing processes. <i>Nature Biomedical Engineering</i> , 2019, 3, 37-46.	22.5	185
7	Differentiation and quantification of inflammation, demyelination and axon injury or loss in multiple sclerosis. <i>Brain</i> , 2015, 138, 1223-1238.	7.6	133
8	Quantifying white matter tract diffusion parameters in the presence of increased extra-fiber cellularity and vasogenic edema. <i>NeuroImage</i> , 2014, 101, 310-319.	4.2	108
9	Diffusion basis spectrum imaging detects and distinguishes coexisting subclinical inflammation, demyelination and axonal injury in experimental autoimmune encephalomyelitis mice. <i>NMR in Biomedicine</i> , 2014, 27, 843-852.	2.8	100
10	Neuroinflammation and White Matter Alterations in Obesity Assessed by Diffusion Basis Spectrum Imaging. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 464.	2.0	56
11	Spinal Cord Injury Disrupts Resting-State Networks in the Human Brain. <i>Journal of Neurotrauma</i> , 2018, 35, 864-873.	3.4	51
12	âœA new imaging modality to non-invasively assess multiple sclerosis pathologyâœ. <i>Journal of Neuroimmunology</i> , 2017, 304, 81-85.	2.3	44
13	Diffusion MRI quantifies early axonal loss in the presence of nerve swelling. <i>Journal of Neuroinflammation</i> , 2017, 14, 78.	7.2	39
14	Axonal transport rate decreased at the onset of optic neuritis in EAE mice. <i>NeuroImage</i> , 2014, 100, 244-253.	4.2	35
15	Magnetic Resonance Imaging Biomarker of Axon Loss Reflects Cervical Spondylotic Myelopathy Severity. <i>Spine</i> , 2016, 41, 751-756.	2.0	32
16	Deep learning with diffusion basis spectrum imaging for classification of multiple sclerosis lesions. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 695-706.	3.7	32
17	Diffusion Assessment of Cortical Changes, Induced by Traumatic Spinal Cord Injury. <i>Brain Sciences</i> , 2017, 7, 21.	2.3	28
18	Impact Speed Does Not Determine Severity of Spinal Cord Injury in Mice with Fixed Impact Displacement. <i>Journal of Neurotrauma</i> , 2009, 26, 1395-1404.	3.4	27

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19	Non-invasive quantification of inflammation, axonal and myelin injury in multiple sclerosis. <i>Brain</i> , 2021, 144, 213-223.	7.6	27
20	A simple, robust hardware device for passive or active respiratory gating in MRI and MRS experiments. <i>Concepts in Magnetic Resonance</i> , 2004, 21B, 40-48.	1.3	26
21	Diffusion basis spectrum imaging provides insights into MS pathology. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2020, 7, .	6.0	25
22	Diffusion Basis Spectrum and Diffusion Tensor Imaging Detect Hippocampal Inflammation and Dendritic Injury in a Virus-Induced Mouse Model of Epilepsy. <i>Frontiers in Neuroscience</i> , 2018, 12, 77.	2.8	23
23	Diffusion fMRI detects white-matter dysfunction in mice with acute optic neuritis. <i>Neurobiology of Disease</i> , 2014, 67, 1-8.	4.4	20
24	Noninvasive Quantification of Axonal Loss in the Presence of Tissue Swelling in Traumatic Spinal Cord Injury Mice. <i>Journal of Neurotrauma</i> , 2019, 36, 2308-2315.	3.4	19
25	Histopathological correlation of diffusion basis spectrum imaging metrics of a biopsy-proven inflammatory demyelinating brain lesion: A brief report. <i>Multiple Sclerosis Journal</i> , 2019, 25, 1937-1941.	3.0	18
26	Diffusion Histology Imaging Combining Diffusion Basis Spectrum Imaging (DBSI) and Machine Learning Improves Detection and Classification of Glioblastoma Pathology. <i>Clinical Cancer Research</i> , 2020, 26, 5388-5399.	7.0	18
27	Diffusion basis spectrum imaging for identifying pathologies in MS subtypes. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 2323-2327.	3.7	17
28	Fractional anisotropy to quantify cervical spondylotic myelopathy severity. <i>Journal of Neurosurgical Sciences</i> , 2018, 62, 406-412.	0.6	14
29	MRI-based assessment of function and dysfunction in myelinated axons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10225-E10234.	7.1	13
30	Characterization of multiple sclerosis neuroinflammation and neurodegeneration with relaxation and diffusion basis spectrum imaging. <i>Multiple Sclerosis Journal</i> , 2022, 28, 418-428.	3.0	11
31	Phase-aligned multiple spin-echo averaging: a simple way to improve signal-to-noise ratio of in vivo mouse spinal cord diffusion tensor image. <i>Magnetic Resonance Imaging</i> , 2014, 32, 1335-1343.	1.8	10
32	The impact of edema and fiber crossing on diffusion MRI metrics assessed in an ex vivo nerve phantom: Multi-tensor model vs. diffusion orientation distribution function. <i>NMR in Biomedicine</i> , 2021, 34, e4414.	2.8	10
33	Signal-to-noise ratio-enhancing joint reconstruction for improved diffusion imaging of mouse spinal cord white matter injury. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 852-858.	3.0	9
34	Diffusion histology imaging differentiates distinct pediatric brain tumor histology. <i>Scientific Reports</i> , 2021, 11, 4749.	3.3	9
35	Nucleus accumbens microstructure mediates the relationship between obesity and eating behavior in adults. <i>Obesity</i> , 2021, 29, 1328-1337.	3.0	8
36	Microstructural Periventricular White Matter Injury in Post-hemorrhagic Ventricular Dilatation. <i>Neurology</i> , 2022, 98, .	1.1	8

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37	Incorporating non-linear alignment and multi-compartmental modeling for improved human optic nerve diffusion imaging. <i>NeuroImage</i> , 2019, 196, 102-113.	4.2	6
38	Diffusion basis spectrum imaging measures anti-inflammatory and neuroprotective effects of fingolimod on murine optic neuritis. <i>NeuroImage: Clinical</i> , 2021, 31, 102732.	2.7	4
39	Diffusion Basis Spectrum Imaging Detects Axonal Loss After Transient Dexamethasone Treatment in Optic Neuritis Mice. <i>Frontiers in Neuroscience</i> , 2020, 14, 592063.	2.8	3
40	Analysis of combined clinical and diffusion basis spectrum imaging metrics to predict the outcome of chronic cervical spondylotic myelopathy following cervical decompression surgery. <i>Journal of Neurosurgery: Spine</i> , 2022, 37, 588-598.	1.7	2
41	338 Diffusion Basis Spectrum Imaging (DBSI) Prognosticates Outcomes for Cervical Spondylotic Myelopathy after Surgery. <i>Journal of Clinical and Translational Science</i> , 2022, 6, 62-62.	0.6	0