

Yaniv Assaf

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

8,668
citations

87843

38
h-index

51562

86
g-index

96
all docs

96
docs citations

96
times ranked

9306
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion Tensor Imaging (DTI)-based White Matter Mapping in Brain Research: A Review. <i>Journal of Molecular Neuroscience</i> , 2008, 34, 51-61.	1.1	1,252
2	Axcaliber: A method for measuring axon diameter distribution from diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 1347-1354.	1.9	763
3	Composite hindered and restricted model of diffusion (CHARMED) MR imaging of the human brain. <i>NeuroImage</i> , 2005, 27, 48-58.	2.1	743
4	Sex beyond the genitalia: The human brain mosaic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15468-15473.	3.3	493
5	New modeling and experimental framework to characterize hindered and restricted water diffusion in brain white matter. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 965-978.	1.9	474
6	Learning in the Fast Lane: New Insights into Neuroplasticity. <i>Neuron</i> , 2012, 73, 1195-1203.	3.8	422
7	In vivo measurement of axon diameter distribution in the corpus callosum of rat brain. <i>Brain</i> , 2009, 132, 1210-1220.	3.7	351
8	High-value q-space analyzed diffusion-weighted MRS and MRI in neuronal tissues - a technical review. <i>NMR in Biomedicine</i> , 2002, 15, 516-542.	1.6	257
9	Diffusion MRI of Structural Brain Plasticity Induced by a Learning and Memory Task. <i>PLoS ONE</i> , 2011, 6, e20678.	1.1	249
10	Characterization of displaced white matter by brain tumors using combined DTI and fMRI. <i>NeuroImage</i> , 2006, 30, 1100-1111.	2.1	226
11	Why diffusion tensor MRI does well only some of the time: Variance and covariance of white matter tissue microstructure attributes in the living human brain. <i>NeuroImage</i> , 2014, 89, 35-44.	2.1	224
12	Short-Term Learning Induces White Matter Plasticity in the Fornix. <i>Journal of Neuroscience</i> , 2013, 33, 12844-12850.	1.7	173
13	Assessing white matter microstructure of the newborn with multi-shell diffusion MRI and biophysical compartment models. <i>NeuroImage</i> , 2014, 96, 288-299.	2.1	161
14	Dynamic Changes in the Recovery after Traumatic Brain Injury in Mice: Effect of Injury Severity on T2-Weighted MRI Abnormalities, and Motor and Cognitive Functions. <i>Journal of Neurotrauma</i> , 2008, 25, 324-333.	1.7	136
15	Clozapine Administration in Adolescence Prevents Postpubertal Emergence of Brain Structural Pathology in an Animal Model of Schizophrenia. <i>Biological Psychiatry</i> , 2009, 66, 1038-1046.	0.7	134
16	In vivo correlation between axon diameter and conduction velocity in the human brain. <i>Brain Structure and Function</i> , 2015, 220, 1777-1788.	1.2	133
17	The CONNECT project: Combining macro- and micro-structure. <i>NeuroImage</i> , 2013, 80, 273-282.	2.1	121
18	The role of diffusion MRI in neuroscience. <i>NMR in Biomedicine</i> , 2019, 32, e3762.	1.6	107

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19	Cluster analysis of resting-state fMRI time series. <i>NeuroImage</i> , 2009, 45, 1117-1125.	2.1	106
20	NAP (davunetide) modifies disease progression in a mouse model of severe neurodegeneration: Protection against impairments in axonal transport. <i>Neurobiology of Disease</i> , 2013, 56, 79-94.	2.1	98
21	Diffusion- and T2-weighted MRI of closed-head injury in rats: A time course study and correlation with histology. <i>Magnetic Resonance Imaging</i> , 1997, 15, 77-85.	1.0	89
22	Delineating gray and white matter involvement in brain lesions: three-dimensional alignment of functional magnetic resonance imaging and diffusion-tensor imaging. <i>Journal of Neurosurgery</i> , 2003, 99, 1018-1027.	0.9	88
23	Structural correlates of cognitive domains in normal aging with diffusion tensor imaging. <i>Brain Structure and Function</i> , 2012, 217, 503-515.	1.2	84
24	Separate parts of occipito-temporal white matter fibers are associated with recognition of faces and places. <i>NeuroImage</i> , 2014, 86, 123-130.	2.1	76
25	Imaging laminar structures in the gray matter with diffusion MRI. <i>NeuroImage</i> , 2019, 197, 677-688.	2.1	74
26	Diffusion and Perfusion Magnetic Resonance Imaging Following Closed Head Injury in Rats. <i>Journal of Neurotrauma</i> , 1999, 16, 1165-1176.	1.7	69
27	Motion correction and registration of high b-value diffusion weighted images. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1694-1702.	1.9	69
28	Conservation of brain connectivity and wiring across the mammalian class. <i>Nature Neuroscience</i> , 2020, 23, 805-808.	7.1	68
29	A mouse model for eukaryotic translation initiation factor 2B-leucodystrophy reveals abnormal development of brain white matter. <i>Brain</i> , 2010, 133, 2448-2461.	3.7	66
30	Micro-structural assessment of short term plasticity dynamics. <i>NeuroImage</i> , 2013, 81, 1-7.	2.1	62
31	White matter changes in multiple sclerosis: correlation of q-space diffusion MRI and 1H MRS. <i>Magnetic Resonance Imaging</i> , 2005, 23, 703-710.	1.0	60
32	Sleep-anticipating effects of melatonin in the human brain. <i>NeuroImage</i> , 2006, 31, 410-418.	2.1	60
33	Rapid language-related plasticity: microstructural changes in the cortex after a short session of new word learning. <i>Brain Structure and Function</i> , 2017, 222, 1231-1241.	1.2	59
34	Visualization of Cortical Lamination Patterns with Magnetic Resonance Imaging. <i>Cerebral Cortex</i> , 2012, 22, 2016-2023.	1.6	56
35	Resolving relaxometry and diffusion properties within the same voxel in the presence of crossing fibres by combining inversion recovery and diffusion-weighted acquisitions. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 372-380.	1.9	55
36	T1 relaxometry of crossing fibres in the human brain. <i>NeuroImage</i> , 2016, 141, 133-142.	2.1	50

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37	Structural correlates of memory performance with diffusion tensor imaging. <i>NeuroImage</i> , 2010, 50, 1231-1242.	2.1	45
38	Variational multiple-tensor fitting of fiber-ambiguous diffusion-weighted magnetic resonance imaging voxels. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1133-1144.	1.0	41
39	Mapping apparent eccentricity and residual ensemble anisotropy in the gray matter using angular double-pulsed-field gradient MRI. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 794-806.	1.9	41
40	Short-term plasticity following motor sequence learning revealed by diffusion magnetic resonance imaging. <i>Human Brain Mapping</i> , 2020, 41, 442-452.	1.9	37
41	Can we use diffusion MRI as a bio-marker of neurodegenerative processes?. <i>BioEssays</i> , 2008, 30, 1235-1245.	1.2	36
42	Mammillothalamic Disconnection Alters Hippocampocortical Oscillatory Activity and Microstructure: Implications for Diencephalic Amnesia. <i>Journal of Neuroscience</i> , 2019, 39, 6696-6713.	1.7	36
43	Chronic cholinergic imbalances promote brain diffusion and transport abnormalities. <i>FASEB Journal</i> , 2005, 19, 910-922.	0.2	35
44	Neurodegeneration of lateral habenula efferent fibers after intermittent cocaine administration: Implications for deep brain stimulation. <i>Neuropharmacology</i> , 2013, 75, 246-254.	2.0	34
45	High b-value diffusion imaging of dementia: Application to vascular dementia and alzheimer disease. <i>Journal of the Neurological Sciences</i> , 2007, 257, 105-113.	0.3	33
46	Detection of Different Water Populations in Brain Tissue Using ² H Single- and Double-Quantum-Filtered Diffusion NMR Spectroscopy. <i>Journal of Magnetic Resonance Series B</i> , 1996, 112, 151-159.	1.6	31
47	Hypertension and neuronal degeneration in excised rat spinal cord studied by high-b value q-space diffusion magnetic resonance imaging. <i>Experimental Neurology</i> , 2003, 184, 726-736.	2.0	31
48	MRI evidence of white matter damage in a mouse model of Nijmegen breakage syndrome. <i>Experimental Neurology</i> , 2008, 209, 181-191.	2.0	29
49	Using the biophysical CHARMED model to elucidate the underpinnings of contrast in diffusional kurtosis analysis of diffusion-weighted MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 267-276.	1.1	29
50	Brain volumetric changes in the general population following the COVID-19 outbreak and lockdown. <i>NeuroImage</i> , 2021, 239, 118311.	2.1	29
51	Regional axonal abnormalities in first episode schizophrenia: Preliminary evidence based on high b-value diffusion-weighted imaging. <i>Psychiatry Research - Neuroimaging</i> , 2006, 146, 223-229.	0.9	25
52	High-Level Gait Disorder: Associations with Specific White Matter Changes Observed on Advanced Diffusion Imaging. <i>Journal of Neuroimaging</i> , 2013, 23, 39-46.	1.0	25
53	Resolution considerations in imaging of the cortical layers. <i>NeuroImage</i> , 2018, 164, 112-120.	2.1	25
54	Regenerating the Injured Spinal Cord at the Chronic Phase by Engineered iPSCs-Derived 3D Neuronal Networks. <i>Advanced Science</i> , 2022, 9, e2105694.	5.6	23

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55	Neurodegeneration in thiamine deficient rats – A longitudinal MRI study. Brain Research, 2010, 1308, 176-184.	1.1	22
56	In vivo observation of anisotropic motion of brain water using ² H double quantum filtered NMR spectroscopy. Magnetic Resonance in Medicine, 1997, 37, 197-203.	1.9	21
57	Combinatorial fiber-tracking of the human brain. NeuroImage, 2009, 48, 532-540.	2.1	21
58	Clinical benefits of diffusion tensor imaging in hydrocephalus. Journal of Neurosurgery: Pediatrics, 2015, 16, 195-202.	0.8	21
59	The rapid development of structural plasticity through short water maze training: A DTI study. NeuroImage, 2017, 155, 202-208.	2.1	21
60	Virtual definition of neuronal tissue by cluster analysis of multi-parametric imaging (virtual-dot-com) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.1	19
61	The combined treatment of Copaxone and Salirasib attenuates experimental autoimmune encephalomyelitis (EAE) in mice. Journal of Neuroimmunology, 2010, 229, 192-203.	1.1	19
62	A framework for cortical laminar composition analysis using low-resolution T1 MRI images. Brain Structure and Function, 2019, 224, 1457-1467.	1.2	17
63	Tremor Relief and Structural Integrity after MRI-guided Focused US Thalamotomy in Tremor Disorders. Radiology, 2020, 294, 676-685.	3.6	17
64	Single Cortical Microinfarcts Lead to Widespread Microglia/Macrophage Migration Along the White Matter. Cerebral Cortex, 2021, 31, 248-266.	1.6	16
65	Inner Hemispheric and Interhemispheric Connectivity Balance in the Human Brain. Journal of Neuroscience, 2021, 41, 8351-8361.	1.7	16
66	Structural changes in glutamate cell swelling followed by multiparametric q-space diffusion MR of excised rat spinal cord. Magnetic Resonance Imaging, 2004, 22, 661-672.	1.0	15
67	Susceptibility-matched envelope for the correction of EPI artifacts. Magnetic Resonance Imaging, 2005, 23, 947-951.	1.0	13
68	Brain structure changes induced by attention bias modification training. Biological Psychology, 2019, 146, 107736.	1.1	13
69	An MRI-Based, Data-Driven Model of Cortical Laminar Connectivity. Neuroinformatics, 2021, 19, 205-218.	1.5	12
70	Response to the comments on the paper by Horowitz et al. (2014). Brain Structure and Function, 2015, 220, 1791-1792.	1.2	11
71	Assault-related self-blame and its association with PTSD in sexually assaulted women: an MRI inquiry. Social Cognitive and Affective Neuroscience, 2018, 13, 775-784.	1.5	11
72	Widespread cortical dyslamination in epilepsy patients with malformations of cortical development. Neuroradiology, 2021, 63, 225-234.	1.1	11

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73	Selective atrophy of the connected deepest cortical layers following small subcortical infarct. <i>Neurology</i> , 2019, 92, e567-e575.	1.5	10
74	Motor deficits and neurofibromatosis type 1 (NF1)-associated MRI impairments in a mouse model of NF1. <i>NMR in Biomedicine</i> , 2010, 23, 1173-1180.	1.6	9
75	New dimensions for brain mapping. <i>Science</i> , 2018, 362, 994-995.	6.0	8
76	Altered White Matter and microRNA Expression in a Murine Model Related to Williams Syndrome Suggests That miR-34b/c Affects Brain Development via Ptpu and Dcx Modulation. <i>Cells</i> , 2022, 11, 158.	1.8	8
77	3D virtual reconstruction and quantitative assessment of the human intervertebral disc's annulus fibrosus: a DTI tractography study. <i>Scientific Reports</i> , 2021, 11, 6815.	1.6	7
78	The use of MEMRI for monitoring central nervous system activity during intact insect walking. <i>Journal of Insect Physiology</i> , 2018, 108, 48-53.	0.9	5
79	In vivo measurements of lamination patterns in the human cortex. <i>Human Brain Mapping</i> , 2022, 43, 2861-2868.	1.9	5
80	Modelling the laminar connectome of the human brain. <i>Brain Structure and Function</i> , 2022, 227, 2153-2165.	1.2	5
81	Deviation of Fiber Tracts in the Vicinity of Brain Lesions: Evaluation by Diffusion Tensor Imaging. <i>Israel Journal of Chemistry</i> , 2010, 43, 155-163.	1.0	4
82	Modelling Cortical Laminar Connectivity in the Macaque Brain. <i>Neuroinformatics</i> , 2022, 20, 559-573.	1.5	4
83	Macro- and microstructural gray matter alterations in sexually assaulted women. <i>Journal of Affective Disorders</i> , 2020, 262, 196-204.	2.0	3
84	Chronic cholinergic imbalances promote brain diffusion and transport abnormalities. <i>FASEB Journal</i> , 2006, 20, 2425-2425.	0.2	1
85	Combined neuroimaging and gene expression analysis of the genetic basis of brain plasticity indicates across species homology. <i>Human Brain Mapping</i> , 2014, 35, 5888-5902.	1.9	1
86	Cover Image, Volume 32, Issue 4. <i>NMR in Biomedicine</i> , 2019, 32, e3974.	1.6	1
87	Mapping apparent eccentricity and residual ensemble anisotropy in the gray matter using angular double-pulsed-field-gradient MRI. <i>Magnetic Resonance in Medicine</i> , 2012, 68, spcone-spcone.	1.9	0
88	"Does attention bias modification induce structural brain changes? A commentary on Abend et al. (2019)" Response. <i>Biological Psychology</i> , 2020, 152, 107865.	1.1	0