

Aviv A Mezer

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,437
citations

430843

18
h-index

265191

42
g-index

52
all docs

52
docs citations

52
times ranked

3249
citing authors

#	ARTICLE	IF	CITATIONS
1	Lifespan maturation and degeneration of human brain white matter. Nature Communications, 2014, 5, 4932.	12.8	335
2	Compressive spatial summation in human visual cortex. Journal of Neurophysiology, 2013, 110, 481-494.	1.8	270
3	Quantifying the local tissue volume and composition in individual brains with magnetic resonance imaging. Nature Medicine, 2013, 19, 1667-1672.	30.7	261
4	The vertical occipital fasciculus: A century of controversy resolved by in vivo measurements. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5214-23.	7.1	221
5	Microstructural proliferation in human cortex is coupled with the development of face processing. Science, 2017, 355, 68-71.	12.6	150
6	Bound pool fractions complement diffusion measures to describe white matter micro and macrostructure. NeuroImage, 2011, 54, 1112-1121.	4.2	133
7	Cluster analysis of resting-state fMRI time series. NeuroImage, 2009, 45, 1117-1125.	4.2	106
8	A Two-Stage Cascade Model of BOLD Responses in Human Visual Cortex. PLoS Computational Biology, 2013, 9, e1003079.	3.2	89
9	Separate parts of occipito-temporal white matter fibers are associated with recognition of faces and places. NeuroImage, 2014, 86, 123-130.	4.2	76
10	Evaluating g-ratio weighted changes in the corpus callosum as a function of age and sex. NeuroImage, 2018, 182, 304-313.	4.2	68
11	Evaluating the Accuracy of Diffusion MRI Models in White Matter. PLoS ONE, 2015, 10, e0123272.	2.5	67
12	The Structural Properties of Major White Matter Tracts in Strabismic Amblyopia. , 2015, 56, 5152.		63
13	Evaluating quantitative proton density mapping methods. Human Brain Mapping, 2016, 37, 3623-3635.	3.6	59
14	Disentangling molecular alterations from water-content changes in the aging human brain using quantitative MRI. Nature Communications, 2019, 10, 3403.	12.8	51
15	Abnormal white matter properties in adolescent girls with anorexia nervosa. NeuroImage: Clinical, 2015, 9, 648-659.	2.7	48
16	Vesicle Priming and Recruitment by ubMunc13-2 Are Differentially Regulated by Calcium and Calmodulin. Journal of Neuroscience, 2008, 28, 1949-1960.	3.6	45
17	Diffusivity and quantitative T1 profile of human visual white matter tracts after retinal ganglion cell damage. NeuroImage: Clinical, 2019, 23, 101826.	2.7	29
18	Tractography optimization using quantitative T1 mapping in the human optic radiation. NeuroImage, 2018, 181, 645-658.	4.2	28

#	ARTICLE	IF	CITATIONS
19	Modeling conduction delays in the corpus callosum using MRI-measured g-ratio. <i>NeuroImage</i> , 2019, 195, 128-139.	4.2	25
20	Tractography delineation of the vertical occipital fasciculus using quantitative T1 mapping. <i>NeuroImage</i> , 2019, 202, 116121.	4.2	24
21	Evaluating arcuate fasciculus laterality measurements across dataset and tractography pipelines. <i>Human Brain Mapping</i> , 2019, 40, 3695-3711.	3.6	24
22	The Mechanism of Proton Transfer between Adjacent Sites Exposed to Water. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11379-11388.	2.6	22
23	The glial framework reveals white matter fiber architecture in human and primate brains. <i>Science</i> , 2021, 374, 762-767.	12.6	22
24	Test-retest reliability of myelin imaging in the human spinal cord: Measurement errors versus region- and aging-induced variations. <i>PLoS ONE</i> , 2018, 13, e0189944.	2.5	20
25	Subdividing the superior longitudinal fasciculus using local quantitative MRI. <i>NeuroImage</i> , 2020, 208, 116439.	4.2	19
26	A New Platform to Study the Molecular Mechanisms of Exocytosis. <i>Journal of Neuroscience</i> , 2004, 24, 8838-8846.	3.6	16
27	Associations of Reading Efficiency with White Matter Properties of the Cerebellar Peduncles in Children. <i>Cerebellum</i> , 2020, 19, 771-777.	2.5	16
28	Evaluation of the Heterogeneous Reactivity of the Syntaxin Molecules on the Inner Leaflet of the Plasma Membrane. <i>Journal of Neuroscience</i> , 2009, 29, 12292-12301.	3.6	15
29	Infants's cortex undergoes microstructural growth coupled with myelination during development. <i>Communications Biology</i> , 2021, 4, 1191.	4.4	15
30	More than myelin: Probing white matter differences in prematurity with quantitative T1 and diffusion MRI. <i>NeuroImage: Clinical</i> , 2019, 22, 101756.	2.7	14
31	Conduction delays in the visual pathways of progressive multiple sclerosis patients covary with brain structure. <i>NeuroImage</i> , 2020, 221, 117204.	4.2	14
32	Neurobiological underpinnings of rapid white matter plasticity during intensive reading instruction. <i>NeuroImage</i> , 2021, 243, 118453.	4.2	12
33	Mapping microstructural gradients of the human striatum in normal aging and Parkinson's disease. <i>Science Advances</i> , 2022, 8, .	10.3	12
34	A Comparison of Quantitative R1 and Cortical Thickness in Identifying Age, Lifespan Dynamics, and Disease States of the Human Cortex. <i>Cerebral Cortex</i> , 2021, 31, 1211-1226.	2.9	10
35	Systematic search for the rate constants that control the exocytotic process from chromaffin cells by a Genetic Algorithm. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 345-355.	4.1	8
36	The effect of motion correction interpolation on quantitative T1 mapping with MRI. <i>Medical Image Analysis</i> , 2019, 52, 119-127.	11.6	8

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37	Speed discrimination predicts word but not pseudo-word reading rate in adults and children. <i>Brain and Language</i> , 2014, 138, 27-37.	1.6	7
38	A phantom system for assessing the effects of membrane lipids on water proton relaxation. <i>NMR in Biomedicine</i> , 2020, 33, e4209.	2.8	6
39	Automatic Segmentation of the Dorsal Claustrum in Humans Using in vivo High-Resolution MRI. <i>Cerebral Cortex Communications</i> , 2020, 1, tgaa062.	1.6	5
40	White matter properties underlying reading abilities differ in 8-year-old children born full term and preterm: A multi-modal approach. <i>NeuroImage</i> , 2022, 256, 119240.	4.2	5
41	The robust and independent nature of structural STS asymmetries. <i>Brain Structure and Function</i> , 2019, 224, 3171-3182.	2.3	4
42	A survey of the integrity of major white matter tracts in strabismic amblyopia. <i>Journal of Vision</i> , 2015, 15, 650.	0.3	1
43	A Comprehensive Kinetic Model of the Exocytotic Process: Evaluation of the Reaction Mechanism. , 2005, , 249-257.		1
44	Abnormal White Matter Properties in Adolescent Girls With Anorexia Nervosa. <i>Journal of Adolescent Health</i> , 2016, 58, S24-S25.	2.5	0
45	Macromolecular proliferation in human high-level visual cortex constrains development of function and behavior. <i>Journal of Vision</i> , 2016, 16, 383.	0.3	0