

# Assaf Tal

## List of Publications by Year in descending order

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41  
papers

1,085  
citations

567281

15  
h-index

434195

31  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1387  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-scan multidimensional magnetic resonance. Progress in Nuclear Magnetic Resonance Spectroscopy, 2010, 57, 241-292.	7.5	245
2	Serial proton MR spectroscopy of gray and white matter in relapsing-remitting MS. Neurology, 2013, 80, 39-46.	1.1	74
3	Diffuse axonal injury in mild traumatic brain injury: a 3D multivoxel proton MR spectroscopy study. Journal of Neurology, 2013, 260, 242-252.	3.6	70
4	Spatial encoding and the single-scan acquisition of high definition MR images in inhomogeneous fields. Journal of Magnetic Resonance, 2006, 182, 179-194.	2.1	63
5	The role of gray and white matter segmentation in quantitative proton MR spectroscopic imaging. NMR in Biomedicine, 2012, 25, 1392-1400.	2.8	63
6	Proton MR Spectroscopy Correlates Diffuse Axonal Abnormalities with Post-Concussive Symptoms in Mild Traumatic Brain Injury. Journal of Neurotrauma, 2013, 30, 1200-1204.	3.4	59
7	Low-rank magnetic resonance fingerprinting. Medical Physics, 2018, 45, 4066-4084.	3.0	48
8	A continuous phase-modulated approach to spatial encoding in ultrafast 2D NMR spectroscopy. Journal of Magnetic Resonance, 2005, 176, 107-114.	2.1	45
9	Spectroscopic imaging from spatially-encoded single-scan multidimensional MRI data. Journal of Magnetic Resonance, 2007, 189, 46-58.	2.1	36
10	Single-scan 2D Hadamard NMR Spectroscopy. Angewandte Chemie - International Edition, 2009, 48, 2732-2736.	13.8	33
11	Inhibitory and excitatory mechanisms in the human cingulate-cortex support reinforcement learning: A functional Proton Magnetic Resonance Spectroscopy study. NeuroImage, 2019, 184, 25-35.	4.2	32
12	Translational Entanglement via Collisions: How Much Quantum Information is Obtainable?. Physical Review Letters, 2005, 94, 160503.	7.8	27
13	The application of magnetic resonance fingerprinting to single voxel proton spectroscopy. NMR in Biomedicine, 2018, 31, e4001.	2.8	24
14	Analysis of magnetization transfer (MT) influence on quantitative mapping of T <sub>2</sub> relaxation time. Magnetic Resonance in Medicine, 2019, 82, 145-158.	3.0	21
15	Low rank magnetic resonance fingerprinting. , 2016, 2016, 439-442.		18
16	When are metabolic ratios superior to absolute quantification? A statistical analysis. NMR in Biomedicine, 2017, 30, e3710.	2.8	18
17	Proton MR spectroscopy of lesion evolution in multiple sclerosis: Steady-state metabolism and its relationship to conventional imaging. Human Brain Mapping, 2017, 38, 4047-4063.	3.6	18
18	Localization errors in MR spectroscopic imaging due to the drift of the main magnetic field and their correction. Magnetic Resonance in Medicine, 2013, 70, 895-904.	3.0	16

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19	Potential clinical impact of multiparametric quantitative MR spectroscopy in neurological disorders: A review and analysis. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 22-44.	3.0	15
20	Metabolic Abnormalities in the Hippocampus of Patients with Schizophrenia: A 3D Multivoxel MR Spectroscopic Imaging Study at 3T. <i>American Journal of Neuroradiology</i> , 2016, 37, 2273-2279.	2.4	12
21	Hypo-metabolism of the rostral anterior cingulate cortex associated with working memory impairment in 18 cases of schizophrenia. <i>Brain Imaging and Behavior</i> , 2016, 10, 115-123.	2.1	11
22	Quantitative multivoxel proton MR spectroscopy for the identification of white matter abnormalities in mild traumatic brain injury: Comparison between regional and global analysis. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1424-1432.	3.4	11
23	Increased Glutamate concentrations during prolonged motor activation as measured using functional Magnetic Resonance Spectroscopy at 3T. <i>NeuroImage</i> , 2020, 223, 117338.	4.2	11
24	Spectroscopic localization by simultaneous acquisition of the double-spin and stimulated echoes. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 31-43.	3.0	10
25	What is the optimal schedule for multiparametric MRS? A magnetic resonance fingerprinting perspective. <i>NMR in Biomedicine</i> , 2021, 34, e4196.	2.8	10
26	Quantifying the excitatory-inhibitory balance: A comparison of SemiLASER and MEGA-SemiLASER for simultaneously measuring GABA and glutamate at 7T. <i>NeuroImage</i> , 2022, 247, 118810.	4.2	9
27	Automated whole-brain <sup>1</sup> H-acetylaspartate proton MRS quantification. <i>NMR in Biomedicine</i> , 2014, 27, 1275-1284.	2.8	8
28	Multivoxel Proton MR Spectroscopy Used to Distinguish Anterior Cingulate Metabolic Abnormalities in Patients with Schizophrenia. <i>Radiology</i> , 2011, 261, 542-550.	7.3	7
29	In vivo free induction decay based 3D multivoxel longitudinal hadamard spectroscopic imaging in the human brain at 3 T. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 903-911.	3.0	7
30	Application of phase rotation to STRESS localization scheme at 3 T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2481-2490.	3.0	7
31	New developments in the spatial encoding of spin interactions for single-scan 2D NMR. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 415-422.	1.9	6
32	Brain MR spectroscopic abnormalities in "MRI-negative" tuberous sclerosis complex patients. <i>Epilepsy and Behavior</i> , 2013, 27, 319-325.	1.7	6
33	Non-spin-echo 3D transverse hadamard encoded proton spectroscopic imaging in the human brain. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 7-15.	3.0	6
34	Three-dimensional hadamard-encoded proton spectroscopic imaging in the human brain using time-cascaded pulses at 3 tesla. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 923-933.	3.0	6
35	Global gray and white matter metabolic changes after simian immunodeficiency virus infection in CD8-depleted rhesus macaques: proton MRS imaging at 3 T. <i>NMR in Biomedicine</i> , 2013, 26, 480-488.	2.8	5
36	Structure-specific glial response in a macaque model of neuroAIDS. <i>Aids</i> , 2013, 27, 2519-2528.	2.2	5

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37	Combining multiband slice selection with consistent k-space PSI for accelerated spectral imaging. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 867-876.	3.0	5
38	Fast, regional three-dimensional hybrid (1D-Hadamard 2D-Crosette) proton MR spectroscopic imaging in the human temporal lobes. <i>NMR in Biomedicine</i> , 2021, 34, e4507.	2.8	5
39	Optimal echo times for multi-gradient echo-based B <sub>0</sub> field-mapping. <i>NMR in Biomedicine</i> , 2020, 33, e4316.	2.8	2
40	MR spectroscopic imaging at 3T and outcomes in surgical epilepsy. <i>NMR in Biomedicine</i> , 2021, 34, e4492.	2.8	1
41	TRANSLATIONAL ENTANGLEMENT BY COLLISIONS AND HALF-COLLISIONS. <i>International Journal of Modern Physics B</i> , 2006, 20, 1648-1660.	2.0	0