

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	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
2	What is the optimal schedule for multiparametric MRS? A magnetic resonance fingerprinting perspective. <i>NMR in Biomedicine</i> , 2021, 34, e4196.	2.8	10
3	Fast, regional three-dimensional hybrid (1D-Hadamard 2D-rossette) proton MR spectroscopic imaging in the human temporal lobes. <i>NMR in Biomedicine</i> , 2021, 34, e4507.	2.8	5
4	MR spectroscopic imaging at 3T and outcomes in surgical epilepsy. <i>NMR in Biomedicine</i> , 2021, 34, e4492.	2.8	1
5	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
6	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
7	Optimal echo times for multi-gradient echo-based B ₀ field mapping. <i>NMR in Biomedicine</i> , 2020, 33, e4316.	2.8	2
8	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
9	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
10	Analysis of magnetization transfer (MT) influence on quantitative mapping of T ₂ relaxation time. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 145-158.	3.0	21
11	Inhibitory and excitatory mechanisms in the human cingulate-cortex support reinforcement learning: A functional Proton Magnetic Resonance Spectroscopy study. <i>NeuroImage</i> , 2019, 184, 25-35.	4.2	32
12	Application of phase rotation to STRESS localization scheme at 3 T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2481-2490.	3.0	7
13	The application of magnetic resonance fingerprinting to single voxel proton spectroscopy. <i>NMR in Biomedicine</i> , 2018, 31, e4001.	2.8	24
14	Low-rank magnetic resonance fingerprinting. <i>Medical Physics</i> , 2018, 45, 4066-4084.	3.0	48
15	When are metabolic ratios superior to absolute quantification? A statistical analysis. <i>NMR in Biomedicine</i> , 2017, 30, e3710.	2.8	18
16	Proton MR spectroscopy of lesion evolution in multiple sclerosis: Steady-state metabolism and its relationship to conventional imaging. <i>Human Brain Mapping</i> , 2017, 38, 4047-4063.	3.6	18
17	Low rank magnetic resonance fingerprinting. , 2016, 2016, 439-442.		18
18	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

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19	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
20	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
21	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
22	Automated whole-brain ¹ H-acetylaspartate proton MRS quantification. <i>NMR in Biomedicine</i> , 2014, 27, 1275-1284.	2.8	8
23	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
24	Brain MR spectroscopic abnormalities in "MRI-negative" tuberous sclerosis complex patients. <i>Epilepsy and Behavior</i> , 2013, 27, 319-325.	1.7	6
25	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
26	Proton MR Spectroscopy Correlates Diffuse Axonal Abnormalities with Post-Concussive Symptoms in Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2013, 30, 1200-1204.	3.4	59
27	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
28	Diffuse axonal injury in mild traumatic brain injury: a 3D multivoxel proton MR spectroscopy study. <i>Journal of Neurology</i> , 2013, 260, 242-252.	3.6	70
29	Serial proton MR spectroscopy of gray and white matter in relapsing-remitting MS. <i>Neurology</i> , 2013, 80, 39-46.	1.1	74
30	Localization errors in MR spectroscopic imaging due to the drift of the main magnetic field and their correction. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 895-904.	3.0	16
31	Structure-specific glial response in a macaque model of neuroAIDS. <i>Aids</i> , 2013, 27, 2519-2528.	2.2	5
32	The role of gray and white matter segmentation in quantitative proton MR spectroscopic imaging. <i>NMR in Biomedicine</i> , 2012, 25, 1392-1400.	2.8	63
33	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
34	Single-scan multidimensional magnetic resonance. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2010, 57, 241-292.	7.5	245
35	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
36	Single-Scan 2D Hadamard NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2732-2736.	13.8	33

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37	Spectroscopic imaging from spatially-encoded single-scan multidimensional MRI data. Journal of Magnetic Resonance, 2007, 189, 46-58.	2.1	36
38	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
39	TRANSLATIONAL ENTANGLEMENT BY COLLISIONS AND HALF-COLLISIONS. International Journal of Modern Physics B, 2006, 20, 1648-1660.	2.0	0
40	A continuous phase-modulated approach to spatial encoding in ultrafast 2D NMR spectroscopy. Journal of Magnetic Resonance, 2005, 176, 107-114.	2.1	45
41	Translational Entanglement via Collisions: How Much Quantum Information is Obtainable?. Physical Review Letters, 2005, 94, 160503.	7.8	27