

Thomas Michael Talavage

List of Publications by Year in descending order

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86
papers

4,797
citations

109137

35
h-index

102304

66
g-index

89
all docs

89
docs citations

89
times ranked

4255
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of subconcussion in repetitive mild traumatic brain injury. <i>Journal of Neurosurgery</i> , 2013, 119, 1235-1245.	0.9	424
2	Neuroanatomical distribution of five semantic components of verbs: Evidence from fMRI. <i>Brain and Language</i> , 2008, 107, 16-43.	0.8	338
3	Improved auditory cortex imaging using clustered volume acquisitions. <i>Human Brain Mapping</i> , 1999, 7, 89-97.	1.9	314
4	Tonotopic Organization in Human Auditory Cortex Revealed by Progressions of Frequency Sensitivity. <i>Journal of Neurophysiology</i> , 2004, 91, 1282-1296.	0.9	281
5	Biomechanical correlates of symptomatic and asymptomatic neurophysiological impairment in high school football. <i>Journal of Biomechanics</i> , 2012, 45, 1265-1272.	0.9	240
6	Imaging subcortical auditory activity in humans. , 1998, 6, 33-41.		199
7	Hemispheric roles in the perception of speech prosody. <i>NeuroImage</i> , 2004, 23, 344-357.	2.1	199
8	Alteration of Default Mode Network in High School Football Athletes Due to Repetitive Subconcussive Mild Traumatic Brain Injury: A Resting-State Functional Magnetic Resonance Imaging Study. <i>Brain Connectivity</i> , 2015, 5, 91-101.	0.8	173
9	Modulation of auditory and visual cortex by selective attention is modality-dependent. <i>NeuroReport</i> , 1996, 7, 1909-1913.	0.6	164
10	Frequency-dependent responses exhibited by multiple regions in human auditory cortex. <i>Hearing Research</i> , 2000, 150, 225-244.	0.9	155
11	The effect of repetitive subconcussive collisions on brain integrity in collegiate football players over a single football season: A multi-modal neuroimaging study. <i>NeuroImage: Clinical</i> , 2017, 14, 708-718.	1.4	127
12	Collegiate women's soccer players suffer greater cumulative head impacts than their high school counterparts. <i>Journal of Biomechanics</i> , 2015, 48, 3720-3723.	0.9	122
13	Quantitative assessment of auditory cortex responses induced by imager acoustic noise. <i>Human Brain Mapping</i> , 1999, 7, 79-88.	1.9	117
14	Food-Related Odor Probes of Brain Reward Circuits During Hunger: A Pilot fMRI Study. <i>Obesity</i> , 2010, 18, 1566-1571.	1.5	109
15	MR Spectroscopic Evidence of Brain Injury in the Non-Diagnosed Collision Sport Athlete. <i>Developmental Neuropsychology</i> , 2014, 39, 459-473.	1.0	75
16	Family history of alcoholism mediates the frontal response to alcoholic drink odors and alcohol in at-risk drinkers. <i>NeuroImage</i> , 2010, 50, 267-276.	2.1	72
17	Cerebrovascular reactivity changes in asymptomatic female athletes attributable to high school soccer participation. <i>Brain Imaging and Behavior</i> , 2017, 11, 98-112.	1.1	72
18	Activation of the left planum temporale in pitch processing is shaped by language experience. <i>Human Brain Mapping</i> , 2006, 27, 173-183.	1.9	69

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19	Effects of Repetitive Sub-Concussive Brain Injury on the Functional Connectivity of Default Mode Network in High School Football Athletes. <i>Developmental Neuropsychology</i> , 2015, 40, 51-56.	1.0	69
20	Event segmentation in a visual language: Neural bases of processing American Sign Language predicates. <i>NeuroImage</i> , 2012, 59, 4094-4101.	2.1	64
21	Sub-Concussive Hit Characteristics Predict Deviant Brain Metabolism in Football Athletes. <i>Developmental Neuropsychology</i> , 2015, 40, 12-17.	1.0	63
22	Neural circuitry underlying sentence-level linguistic prosody. <i>NeuroImage</i> , 2005, 28, 417-428.	2.1	62
23	Alcohol Sensitizes Cerebral Responses to the Odors of Alcoholic Drinks: An fMRI Study. <i>Alcoholism: Clinical and Experimental Research</i> , 2008, 32, 1124-1134.	1.4	62
24	A Polymorphism in <i>GABRA2</i> Is Associated With the Medial Frontal Response to Alcohol Cues in an fMRI Study. <i>Alcoholism: Clinical and Experimental Research</i> , 2010, 34, 2169-2178.	1.4	60
25	Elevations in MicroRNA Biomarkers in Serum Are Associated with Measures of Concussion, Neurocognitive Function, and Subconcussive Trauma over a Single National Collegiate Athletic Association Division I Season in Collegiate Football Players. <i>Journal of Neurotrauma</i> , 2019, 36, 1343-1351.	1.7	52
26	DTI Detection of Longitudinal WM Abnormalities Due to Accumulated Head Impacts. <i>Developmental Neuropsychology</i> , 2015, 40, 92-97.	1.0	51
27	Simulation of human respiration in fMRI with a mechanical model. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 700-707.	2.5	48
28	Hemispheric asymmetries in phonological processing of tones versus segmental units. <i>NeuroReport</i> , 2010, 21, 690-694.	0.6	48
29	Nonlinearity of FMRI responses in human auditory cortex. <i>Human Brain Mapping</i> , 2004, 22, 216-228.	1.9	45
30	Neural basis of first and second language processing of sentence-level linguistic prosody. <i>Human Brain Mapping</i> , 2007, 28, 94-108.	1.9	45
31	Dependence on subconcussive impacts of brain metabolism in collision sport athletes: an MR spectroscopic study. <i>Brain Imaging and Behavior</i> , 2019, 13, 735-749.	1.1	42
32	Diffusion Tensor Imaging in Athletes Sustaining Repetitive Head Impacts: A Systematic Review of Prospective Studies. <i>Journal of Neurotrauma</i> , 2019, 36, 2831-2849.	1.7	42
33	Cardiac pacemaker: In vitro assessment at 1.5 T. <i>American Heart Journal</i> , 2006, 151, 436-443.	1.2	41
34	Uncovering multi-site identifiability based on resting-state functional connectomes. <i>NeuroImage</i> , 2019, 202, 115967.	2.1	41
35	Cerebrovascular Reactivity Alterations in Asymptomatic High School Football Players. <i>Developmental Neuropsychology</i> , 2015, 40, 80-84.	1.0	40
36	Post-Season Neurophysiological Deficits Assessed by ImPACT and fMRI in Athletes Competing in American Football. <i>Developmental Neuropsychology</i> , 2015, 40, 85-91.	1.0	39

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37	Gradual adaptation to auditory frequency mismatch. <i>Hearing Research</i> , 2015, 322, 163-170.	0.9	39
38	fMRI study of brain activity elicited by oral parafunctional movements. <i>Journal of Oral Rehabilitation</i> , 2009, 36, 346-361.	1.3	34
39	The Role of Location of Subconcussive Head Impacts in fMRI Brain Activation Change. <i>Developmental Neuropsychology</i> , 2015, 40, 74-79.	1.0	31
40	Motor control of jaw movements: An fMRI study of parafunctional clench and grind behavior. <i>Brain Research</i> , 2011, 1383, 206-217.	1.1	30
41	Beyond Phonological Processing Deficits in Adult Dyslexics: Atypical fMRI Activation Patterns for Spatial Problem Solving. <i>Developmental Neuropsychology</i> , 2012, 37, 617-635.	1.0	30
42	Limbic responses to reward cues correlate with antisocial trait density in heavy drinkers. <i>NeuroImage</i> , 2012, 60, 644-652.	2.1	30
43	Auditory neuroimaging with fMRI and PET. <i>Hearing Research</i> , 2014, 307, 4-15.	0.9	30
44	Selective attention to lexical tones recruits left dorsal frontoparietal network. <i>NeuroReport</i> , 2003, 14, 2263-2266.	0.6	28
45	Accumulation of high magnitude acceleration events predicts cerebrovascular reactivity changes in female high school soccer athletes. <i>Brain Imaging and Behavior</i> , 2020, 14, 164-174.	1.1	28
46	Every hit matters: White matter diffusivity changes in high school football athletes are correlated with repetitive head acceleration event exposure. <i>NeuroImage: Clinical</i> , 2019, 24, 101930.	1.4	27
47	Reproducibility of fMRI activations associated with auditory sentence comprehension. <i>NeuroImage</i> , 2011, 54, 2138-2155.	2.1	26
48	fMRI of Visual Working Memory in High School Football Players. <i>Developmental Neuropsychology</i> , 2015, 40, 63-68.	1.0	22
49	Functional connectivity in task-negative network of the Deaf: effects of sign language experience. <i>PeerJ</i> , 2014, 2, e446.	0.9	21
50	Modeling hemodynamic responses in auditory cortex at 1.5T using variable duration imaging acoustic noise. <i>NeuroImage</i> , 2010, 49, 3027-3038.	2.1	18
51	How challenges in auditory fMRI led to general advancements for the field. <i>NeuroImage</i> , 2012, 62, 641-647.	2.1	18
52	A novel method of quantifying hemodynamic delays to improve hemodynamic response, and CVR estimates in CO2 challenge fMRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 0271678X2097858.	2.4	16
53	Assessment of temporal state-dependent interactions between auditory fMRI responses to desired and undesired acoustic sources. <i>Hearing Research</i> , 2011, 277, 67-77.	0.9	14
54	Neural correlates of adaptation in freely-moving normal hearing subjects under cochlear implant acoustic simulations. <i>NeuroImage</i> , 2013, 82, 500-509.	2.1	14

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55	An fMRI study of nonverbally gifted reading disabled adults: has deficit compensation effected gifted potential?. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 507.	1.0	13
56	The Use of an Electrophysiological Brain Function Index in the Evaluation of Concussed Athletes. <i>Journal of Head Trauma Rehabilitation</i> , 2018, 33, 1-6.	1.0	13
57	Mitigating the Consequences of Subconcussive Head Injuries. <i>Annual Review of Biomedical Engineering</i> , 2020, 22, 387-407.	5.7	13
58	Effects of Dietary Protein and Fiber at Breakfast on Appetite, ad Libitum Energy Intake at Lunch, and Neural Responses to Visual Food Stimuli in Overweight Adults. <i>Nutrients</i> , 2016, 8, 21.	1.7	12
59	Impact of Low-Level Blast Exposure on Brain Function after a One-Day Tactile Training and the Ameliorating Effect of a Jugular Vein Compression Neck Collar Device. <i>Journal of Neurotrauma</i> , 2019, 36, 721-734.	1.7	11
60	Neural network for encoding immediate memory in phonological processing. <i>NeuroReport</i> , 2004, 15, 2459-2462.	0.6	10
61	Factors affecting peak impact force during soccer headers and implications for the mitigation of head injuries. <i>PLoS ONE</i> , 2020, 15, e0240162.	1.1	10
62	Subconcussive trauma. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2018, 158, 245-255.	1.0	9
63	Characterizing Response to Elemental Unit of Acoustic Imaging Noise: An fMRI Study. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 1919-1928.	2.5	8
64	Psychometrically matched tasks evaluating differential fMRI activation during form and motion processing.. <i>Neuropsychology</i> , 2011, 25, 622-633.	1.0	8
65	Impact attenuation of male and female lacrosse helmets using a modal impulse hammer. <i>Journal of Biomechanics</i> , 2019, 95, 109313.	0.9	8
66	Effects of combining field strengths on auditory functional MRI group analysis: 1.5T and 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 1480-1488.	1.9	7
67	KIAA0319 Genotype Predicts the Number of Past Concussions in a Division I Football Team: A Pilot Study. <i>Journal of Neurotrauma</i> , 2019, 36, 1115-1124.	1.7	7
68	Seeing is Worse than Believing: Reading People's Minds Better than Computer-Vision Methods Recognize Actions. <i>Lecture Notes in Computer Science</i> , 2014, , 612-627.	1.0	5
69	Information theoretic evaluation of a noiseband-based cochlear implant simulator. <i>Hearing Research</i> , 2016, 333, 185-193.	0.9	5
70	Temporal pattern of acoustic imaging noise asymmetrically modulates activation in the auditory cortex. <i>Hearing Research</i> , 2016, 331, 57-68.	0.9	5
71	Characterizing near-infrared spectroscopy signal under hypercapnia. <i>Journal of Biophotonics</i> , 2020, 13, e202000173.	1.1	5
72	Head acceleration event metrics in youth contact sports more dependent on sport than level of play. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, 235, 208-221.	1.0	5

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73	Using Oculomotor Features to Predict Changes in Optic Nerve Sheath Diameter and ImpACT Scores From Contact-Sport Athletes. <i>Frontiers in Neurology</i> , 2021, 12, 584684.	1.1	4
74	A Call to Arms: The Need to Create an Inter-Institutional Concussion Neuroimaging Consortium to Discover Clinically Relevant Diagnostic Biomarkers and Develop Evidence-Based Interventions to Facilitate Recovery. <i>Developmental Neuropsychology</i> , 2015, 40, 59-62.	1.0	3
75	Development of Subject-Specific Geometric Spine Model through Use of Automated Active Contour Segmentation and Kinematic Constraint-Limited Registration. <i>Journal of Digital Imaging</i> , 2011, 24, 926-942.	1.6	2
76	A theoretical, continuous alternative to the discrete electrode array. <i>International Congress Series</i> , 2004, 1273, 56-59.	0.2	1
77	Reliability of phase-encode mapping in the presence of spatial non-stationarity of response latency. <i>NeuroImage</i> , 2005, 28, 563-578.	2.1	1
78	Using functional MRI to study auditory comprehension. <i>Imaging in Medicine</i> , 2012, 4, 137-143.	0.0	1
79	Brain Perfusion Bridges Virtual-Reality Spatial Behavior to TPH2 Genotype for Head Acceleration Events. <i>Journal of Neurotrauma</i> , 2021, 38, 1368-1376.	1.7	1
80	Generation of acoustic stimuli from a modeled cochlear implant-induced neural activation pattern. <i>International Congress Series</i> , 2004, 1273, 52-55.	0.2	0
81	A cross-language fMRI study of sentence-level prosody in Mandarin. <i>Brain and Language</i> , 2005, 95, 54-55.	0.8	0
82	A Method for Delivering Spatio-Temporally Focused Energy to a Dynamically Adjustable Target Along a Waveguiding Structure. <i>IEEE Transactions on Signal Processing</i> , 2010, 58, 1416-1426.	3.2	0
83	Determination of Acrolein-Associated T1 and T2 Relaxation Times and Noninvasive Detection Using Nuclear Magnetic Resonance and Magnetic Resonance Spectroscopy. <i>Applied Magnetic Resonance</i> , 2019, 50, 1291-1303.	0.6	0
84	Effects of Acute Aerobic Exercise and Protein Intake on Appetite and the Neural Response to Visual Food Cues. <i>FASEB Journal</i> , 2015, 29, 597.13.	0.2	0
85	Effects of dietary protein and fiber at breakfast on postprandial appetite, neural responses to visual food stimuli, and ad libitum energy intake at lunch in overweight adults. <i>FASEB Journal</i> , 2016, 30, 418.7.	0.2	0
86	Test-retest reliability and postprandial time course of the neural responses to visual food stimuli. <i>FASEB Journal</i> , 2016, 30, 1161.4.	0.2	0