

Peter A. Tass

List of Publications by Year in descending order

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66
papers

3,791
citations

109264

35
h-index

128225

60
g-index

68
all docs

68
docs citations

68
times ranked

2704
citing authors

#	ARTICLE	IF	CITATIONS
1	Technology of deep brain stimulation: current status and future directions. <i>Nature Reviews Neurology</i> , 2021, 17, 75-87.	4.9	341
2	Coordinated reset has sustained aftereffects in Parkinsonian monkeys. <i>Annals of Neurology</i> , 2012, 72, 816-820.	2.8	249
3	Coordinated reset neuromodulation for Parkinson's disease: Proof-of-concept study. <i>Movement Disorders</i> , 2014, 29, 1679-1684.	2.2	198
4	Counteracting tinnitus by acoustic coordinated reset neuromodulation. <i>Restorative Neurology and Neuroscience</i> , 2012, 30, 137-159.	0.4	188
5	Psychometric Evaluation of Visual Analog Scale for the Assessment of Chronic Tinnitus. <i>American Journal of Audiology</i> , 2012, 21, 215-225.	0.5	155
6	Desynchronizing electrical and sensory coordinated reset neuromodulation. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 58.	1.0	119
7	Neuronal connectivity in major depressive disorder: a systematic review. <i>Neuropsychiatric Disease and Treatment</i> , 2018, Volume 14, 2715-2737.	1.0	116
8	Multistability in the Kuramoto model with synaptic plasticity. <i>Physical Review E</i> , 2007, 75, 066207.	0.8	111
9	Maladaptive Neural Synchrony in Tinnitus: Origin and Restoration. <i>Frontiers in Neurology</i> , 2015, 6, 29.	1.1	107
10	Phase chaos in coupled oscillators. <i>Physical Review E</i> , 2005, 71, 065201.	0.8	93
11	The causal relationship between subcortical local field potential oscillations and Parkinsonian resting tremor. <i>Journal of Neural Engineering</i> , 2010, 7, 016009.	1.8	89
12	Unlearning tinnitus-related cerebral synchrony with acoustic coordinated reset stimulation: theoretical concept and modelling. <i>Biological Cybernetics</i> , 2012, 106, 27-36.	0.6	88
13	Long-lasting desynchronization in rat hippocampal slice induced by coordinated reset stimulation. <i>Physical Review E</i> , 2009, 80, 011902.	0.8	84
14	Cumulative and after-effects of short and weak coordinated reset stimulation: a modeling study. <i>Journal of Neural Engineering</i> , 2009, 6, 016004.	1.8	84
15	Reversing pathologically increased EEG power by acoustic coordinated reset neuromodulation. <i>Human Brain Mapping</i> , 2014, 35, 2099-2118.	1.9	81
16	Periodic patterns in a ring of delay-coupled oscillators. <i>Physical Review E</i> , 2010, 82, 036208.	0.8	79
17	Desynchronizing anti-resonance effect of "OFF" coordinated reset stimulation. <i>Journal of Neural Engineering</i> , 2011, 8, 036019.	1.8	79
18	Interoperable atlases of the human brain. <i>NeuroImage</i> , 2014, 99, 525-532.	2.1	78

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19	Effective desynchronization with bipolar double-pulse stimulation. <i>Physical Review E</i> , 2002, 66, 036226.	0.8	77
20	Delay- and Coupling-Induced Firing Patterns in Oscillatory Neural Loops. <i>Physical Review Letters</i> , 2011, 107, 228102.	2.9	77
21	Linking the Tinnitus Questionnaire and the subjective Clinical Global Impression: Which differences are clinically important?. <i>Health and Quality of Life Outcomes</i> , 2012, 10, 79.	1.0	73
22	Self-organized noise resistance of oscillatory neural networks with spike timing-dependent plasticity. <i>Scientific Reports</i> , 2013, 3, 2926.	1.6	66
23	Synchronization control of interacting oscillatory ensembles by mixed nonlinear delayed feedback. <i>Physical Review E</i> , 2010, 82, 026204.	0.8	63
24	Pattern reversal visual evoked responses of V1/V2 and V5/MT as revealed by MEG combined with probabilistic cytoarchitectonic maps. <i>NeuroImage</i> , 2006, 31, 86-108.	2.1	59
25	Coordinated reset stimulation in a large-scale model of the STN-GPe circuit. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 154.	1.2	59
26	Control of Abnormal Synchronization in Neurological Disorders. <i>Frontiers in Neurology</i> , 2014, 5, 268.	1.1	59
27	Impact of acoustic coordinated reset neuromodulation on effective connectivity in a neural network of phantom sound. <i>NeuroImage</i> , 2013, 77, 133-147.	2.1	53
28	Desynchronization of coupled electrochemical oscillators with pulse stimulations. <i>Physical Review E</i> , 2005, 71, 065202.	0.8	52
29	Control of spatially patterned synchrony with multisite delayed feedback. <i>Physical Review E</i> , 2007, 76, 066209.	0.8	44
30	The Spacing Principle for Unlearning Abnormal Neuronal Synchrony. <i>PLoS ONE</i> , 2015, 10, e0117205.	1.1	42
31	Variability of spatio-temporal patterns in non-homogeneous rings of spiking neurons. <i>Chaos</i> , 2011, 21, 047511.	1.0	41
32	Mechanism of suppression of sustained neuronal spiking under high-frequency stimulation. <i>Biological Cybernetics</i> , 2013, 107, 669-684.	0.6	39
33	Augmented brain function by coordinated reset stimulation with slowly varying sequences. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 49.	1.2	39
34	Desynchronizing the abnormally synchronized neural activity in the subthalamic nucleus: a modeling study. <i>Expert Review of Medical Devices</i> , 2007, 4, 633-650.	1.4	37
35	Restoration of segregated, physiological neuronal connectivity by desynchronizing stimulation. <i>Journal of Neural Engineering</i> , 2010, 7, 056008.	1.8	37
36	Acute effects and after-effects of acoustic coordinated reset neuromodulation in patients with chronic subjective tinnitus. <i>NeuroImage: Clinical</i> , 2017, 15, 541-558.	1.4	34

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37	Phase and frequency shifts in a population of phase oscillators. <i>Physical Review E</i> , 1997, 56, 2043-2060.	0.8	32
38	Tremor entrainment by patterned low-frequency stimulation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 3545-3573.	1.6	31
39	STDP in oscillatory recurrent networks: theoretical conditions for desynchronization and applications to deep brain stimulation. <i>Frontiers in Computational Neuroscience</i> , 2010, 4, .	1.2	31
40	Response clustering in transient stochastic synchronization and desynchronization of coupled neuronal bursters. <i>Physical Review E</i> , 2007, 76, 021908.	0.8	30
41	Abnormal cross-frequency coupling in the tinnitus network. <i>Frontiers in Neuroscience</i> , 2014, 8, 284.	1.4	30
42	External trial deep brain stimulation device for the application of desynchronizing stimulation techniques. <i>Journal of Neural Engineering</i> , 2009, 6, 066003.	1.8	29
43	Desynchronization boost by non-uniform coordinated reset stimulation in ensembles of pulse-coupled neurons. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 63.	1.2	29
44	Stochastic phase resetting of two coupled phase oscillators stimulated at different times. <i>Physical Review E</i> , 2003, 67, 051902.	0.8	28
45	Stochastic phase resetting of stimulus-locked responses of two coupled oscillators: Transient response clustering, synchronization, and desynchronization. <i>Chaos</i> , 2003, 13, 364-376.	1.0	27
46	Long-lasting desynchronization by decoupling stimulation. <i>Physical Review Research</i> , 2020, 2, .	1.3	27
47	Macroscopic entrainment of periodically forced oscillatory ensembles. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 105, 98-108.	1.4	26
48	Timing of V1/V2 and V5+ activations during coherent motion of dots: An MEG study. <i>NeuroImage</i> , 2007, 37, 1384-1395.	2.1	22
49	Impact of number of stimulation sites on long-lasting desynchronization effects of coordinated reset stimulation. <i>Chaos</i> , 2020, 30, 083134.	1.0	22
50	Acoustic Coordinated Reset Neuromodulation in a Real Life Patient Population with Chronic Tonal Tinnitus. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	20
51	Multi-frequency activation of neuronal networks by coordinated reset stimulation. <i>Interface Focus</i> , 2011, 1, 75-85.	1.5	18
52	Transmission of stimulus-locked responses in two coupled phase oscillators. <i>Physical Review E</i> , 2004, 69, 051909.	0.8	17
53	Chimera states induced by spatially modulated delayed feedback. <i>Physical Review E</i> , 2010, 82, 066201.	0.8	15
54	Neuromodulation: selected approaches and challenges. <i>Journal of Neurochemistry</i> , 2013, 124, 436-453.	2.1	14

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55	A new toolbox for combining magnetoencephalographic source analysis and cytoarchitectonic probabilistic data for anatomical classification of dynamic brain activity. <i>NeuroImage</i> , 2007, 34, 1577-1587.	2.1	11
56	Acoustic coordinated reset therapy for tinnitus with perceptually relevant frequency spacing and levels. <i>Scientific Reports</i> , 2019, 9, 13607.	1.6	8
57	Entrainment of a network of interacting neurons with minimum stimulating charge. <i>Physical Review E</i> , 2020, 102, 012221.	0.8	8
58	Stimulus-locked responses of two phase oscillators coupled with delayed feedback. <i>Physical Review E</i> , 2006, 73, 066220.	0.8	7
59	Phase-locking swallows in coupled oscillators with delayed feedback. <i>Physical Review E</i> , 2010, 82, 046203.	0.8	5
60	Rebuttal to reply by G. R�ckner and G. Antes on Tass et al. "Counteracting tinnitus by acoustic coordinated reset neuromodulation", <i>Restorative Neurology and Neuroscience</i> Vol. 30(2), 2012. <i>Restorative Neurology and Neuroscience</i> , 2013, 31, 235-237.	0.4	3
61	Mathematical modeling of chemotaxis and glial scarring around implanted electrodes. <i>New Journal of Physics</i> , 2015, 17, 023009.	1.2	3
62	Demand-Controlled Desynchronization of Brain Rhythms by Means of Nonlinear Delayed Feedback. , 2005, 2005, 7656-9.		2
63	Computational modeling of chemotactic signaling and aggregation of microglia around implantation site during deep brain stimulation. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2647-2653.	1.2	2
64	Preface. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 3437-3444.	1.6	1
65	The translational value of the MPTP non-human primate model of Parkinsonism for deep brain stimulation research. , 2011, 2011, 663-6.		0
66	Information processing in tree networks of excitable elements. <i>Physical Review E</i> , 2021, 103, 012308.	0.8	0