Peter A. Tass

List of Publications by Year
in descending order

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. Nature Reviews Neurology, 2021, 17, 75-87.	4.9	341
2	Information processing in tree networks of excitable elements. Physical Review E, 2021, 103, 012308.	0.8	0
3	Impact of number of stimulation sites on long-lasting desynchronization effects of coordinated reset stimulation. Chaos, 2020, 30, 083134.	1.0	22
4	Entrainment of a network of interacting neurons with minimum stimulating charge. Physical Review E, 2020, 102, 012221.	0.8	8
5	Long-lasting desynchronization by decoupling stimulation. Physical Review Research, 2020, 2, .	1.3	27
6	Acoustic coordinated reset therapy for tinnitus with perceptually relevant frequency spacing and levels. Scientific Reports, 2019, 9, 13607.	1.6	8
7	Neuronal connectivity in major depressive disorder: a systematic review. Neuropsychiatric Disease and Treatment, 2018, Volume 14, 2715-2737.	1.0	116
8	Acute effects and after-effects of acoustic coordinated reset neuromodulation in patients with chronic subjective tinnitus. NeuroImage: Clinical, 2017, 15, 541-558.	1.4	34
9	Augmented brain function by coordinated reset stimulation with slowly varying sequences. Frontiers in Systems Neuroscience, 2015, 9, 49.	1.2	39
10	The Spacing Principle for Unlearning Abnormal Neuronal Synchrony. PLoS ONE, 2015, 10, e0117205.	1.1	42
11	Acoustic Coordinated Reset Neuromodulation in a Real Life Patient Population with Chronic Tonal Tinnitus. BioMed Research International, 2015, 2015, 1-8.	0.9	20
12	Maladaptive Neural Synchrony in Tinnitus: Origin and Restoration. Frontiers in Neurology, 2015, 6, 29.	1.1	107
13	Mathematical modeling of chemotaxis and glial scarring around implanted electrodes. New Journal of Physics, 2015, 17, 023009.	1.2	3
14	Coordinated reset stimulation in a large-scale model of the STN-GPe circuit. Frontiers in Computational Neuroscience, 2014, 8, 154.	1.2	59
15	Abnormal cross-frequency coupling in the tinnitus network. Frontiers in Neuroscience, 2014, 8, 284.	1.4	30
16	Coordinated reset neuromodulation for Parkinson's disease: Proofâ€ofâ€concept study. Movement Disorders, 2014, 29, 1679-1684.	2.2	198
17	Control of Abnormal Synchronization in Neurological Disorders. Frontiers in Neurology, 2014, 5, 268.	1.1	59
18	Reversing pathologically increased EEG power by acoustic coordinated reset neuromodulation. Human Brain Mapping, 2014, 35, 2099-2118.	1.9	81

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19	Interoperable atlases of the human brain. NeuroImage, 2014, 99, 525-532.	2.1	78
20	Mechanism of suppression of sustained neuronal spiking under high-frequency stimulation. Biological Cybernetics, 2013, 107, 669-684.	0.6	39
21	Impact of acoustic coordinated reset neuromodulation on effective connectivity in a neural network of phantom sound. NeuroImage, 2013, 77, 133-147.	2.1	53
22	Neuromodulation: selected approaches and challenges. Journal of Neurochemistry, 2013, 124, 436-453.	2.1	14
23	Computational modeling of chemotactic signaling and aggregation of microglia around implantation site during deep brain stimulation. European Physical Journal: Special Topics, 2013, 222, 2647-2653.	1.2	2
24	Rebuttal to reply by G. RÃ¼cker and G. Antes on Tass et al. â€œCounteracting tinnitus by acoustic coordinated reset neuromodulationâ€, Restorative Neurology and Neuroscience Vol. 30(2), 2012. Restorative Neurology and Neuroscience, 2013, 31, 235-237.	0.4	3
25	Self-organized noise resistance of oscillatory neural networks with spike timing-dependent plasticity. Scientific Reports, 2013, 3, 2926.	1.6	66
26	Desynchronization boost by non-uniform coordinated reset stimulation in ensembles of pulse-coupled neurons. Frontiers in Computational Neuroscience, 2013, 7, 63.	1.2	29
27	Psychometric Evaluation of Visual Analog Scale for the Assessment of Chronic Tinnitus. American Journal of Audiology, 2012, 21, 215-225.	0.5	155
28	Coordinated reset has sustained aftereffects in Parkinsonian monkeys. Annals of Neurology, 2012, 72, 816-820.	2.8	249
29	Counteracting tinnitus by acoustic coordinated reset neuromodulation. Restorative Neurology and Neuroscience, 2012, 30, 137-159.	0.4	188
30	Linking the Tinnitus Questionnaire and the subjective Clinical Global Impression: Which differences are clinically important?. Health and Quality of Life Outcomes, 2012, 10, 79.	1.0	73
31	Desynchronizing electrical and sensory coordinated reset neuromodulation. Frontiers in Human Neuroscience, 2012, 6, 58.	1.0	119
32	Unlearning tinnitus-related cerebral synchrony with acoustic coordinated reset stimulation: theoretical concept and modelling. Biological Cybernetics, 2012, 106, 27-36.	0.6	88
33	Desynchronizing anti-resonance effect ofm:nONâ€“OFF coordinated reset stimulation. Journal of Neural Engineering, 2011, 8, 036019.	1.8	79
34	Variability of spatio-temporal patterns in non-homogeneous rings of spiking neurons. Chaos, 2011, 21, 047511.	1.0	41
35	Macroscopic entrainment of periodically forced oscillatory ensembles. Progress in Biophysics and Molecular Biology, 2011, 105, 98-108.	1.4	26
36	Delay- and Coupling-Induced Firing Patterns in Oscillatory Neural Loops. Physical Review Letters, 2011, 107, 228102.	2.9	77

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37	The translational value of the MPTP non-human primate model of Parkinsonism for deep brain stimulation research. , 2011, 2011, 663-6.		0
38	Multi-frequency activation of neuronal networks by coordinated reset stimulation. Interface Focus, 2011, 1, 75-85.	1.5	18
39	STDP in oscillatory recurrent networks: theoretical conditions for desynchronization and applications to deep brain stimulation. Frontiers in Computational Neuroscience, 2010, 4, .	1.2	31
40	Restoration of segregated, physiological neuronal connectivity by desynchronizing stimulation. Journal of Neural Engineering, 2010, 7, 056008.	1.8	37
41	The causal relationship between subcortical local field potential oscillations and Parkinsonian resting tremor. Journal of Neural Engineering, 2010, 7, 016009.	1.8	89
42	Phase-locking swallows in coupled oscillators with delayed feedback. Physical Review E, 2010, 82, 046203.	0.8	5
43	Periodic patterns in a ring of delay-coupled oscillators. Physical Review E, 2010, 82, 036208.	0.8	79
44	Synchronization control of interacting oscillatory ensembles by mixed nonlinear delayed feedback. Physical Review E, 2010, 82, 026204.	0.8	63
45	Chimera states induced by spatially modulated delayed feedback. Physical Review E, 2010, 82, 066201.	0.8	15
46	Long-lasting desynchronization in rat hippocampal slice induced by coordinated reset stimulation. Physical Review E, 2009, 80, 011902.	0.8	84
47	External trial deep brain stimulation device for the application of desynchronizing stimulation techniques. Journal of Neural Engineering, 2009, 6, 066003.	1.8	29
48	Cumulative and after-effects of short and weak coordinated reset stimulation: a modeling study. Journal of Neural Engineering, 2009, 6, 016004.	1.8	84
49	Tremor entrainment by patterned low-frequency stimulation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3545-3573.	1.6	31
50	Preface. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3437-3444.	1.6	1
51	Desynchronizing the abnormally synchronized neural activity in the subthalamic nucleus: a modeling study. Expert Review of Medical Devices, 2007, 4, 633-650.	1.4	37
52	Control of spatially patterned synchrony with multisite delayed feedback. Physical Review E, 2007, 76, 066209.	0.8	44
53	Response clustering in transient stochastic synchronization and desynchronization of coupled neuronal bursters. Physical Review E, 2007, 76, 021908.	0.8	30
54	A new toolbox for combining magnetoencephalographic source analysis and cytoarchitectonic probabilistic data for anatomical classification of dynamic brain activity. NeuroImage, 2007, 34, 1577-1587.	2.1	11

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55	Timing of V1/V2 and V5+ activations during coherent motion of dots: An MEG study. NeuroImage, 2007, 37, 1384-1395.	2.1	22
56	Multistability in the Kuramoto model with synaptic plasticity. Physical Review E, 2007, 75, 066207.	0.8	111
57	Pattern reversal visual evoked responses of V1/V2 and V5/MT as revealed by MEG combined with probabilistic cytoarchitectonic maps. NeuroImage, 2006, 31, 86-108.	2.1	59
58	Stimulus-locked responses of two phase oscillators coupled with delayed feedback. Physical Review E, 2006, 73, 066220.	0.8	7
59	Desynchronization of coupled electrochemical oscillators with pulse stimulations. Physical Review E, 2005, 71, 065202.	0.8	52
60	Demand-Controlled Desynchronization of Brain Rhythms by Means of Nonlinear Delayed Feedback. , 2005, 2005, 7656-9.		2
61	Phase chaos in coupled oscillators. Physical Review E, 2005, 71, 065201.	0.8	93
62	Transmission of stimulus-locked responses in two coupled phase oscillators. Physical Review E, 2004, 69, 051909.	0.8	17
63	Stochastic phase resetting of stimulus-locked responses of two coupled oscillators: Transient response clustering, synchronization, and desynchronization. Chaos, 2003, 13, 364-376.	1.0	27
64	Stochastic phase resetting of two coupled phase oscillators stimulated at different times. Physical Review E, 2003, 67, 051902.	0.8	28
65	Effective desynchronization with bipolar double-pulse stimulation. Physical Review E, 2002, 66, 036226.	0.8	77
66	Phase and frequency shifts in a population of phase oscillators. Physical Review E, 1997, 56, 2043-2060.	0.8	32