

# Christian Hauptmann

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,768  
citations

172207

29  
h-index

264894

42  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1766  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective Desynchronization by Nonlinear Delayed Feedback. <i>Physical Review Letters</i> , 2005, 94, 164102.	2.9	271
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	Control of Neuronal Synchrony by Nonlinear Delayed Feedback. <i>Biological Cybernetics</i> , 2006, 95, 69-85.	0.6	152
7	Multistability in the Kuramoto model with synaptic plasticity. <i>Physical Review E</i> , 2007, 75, 066207.	0.8	111
8	Effectively desynchronizing deep brain stimulation based on a coordinated delayed feedback stimulation via several sites: a computational study. <i>Biological Cybernetics</i> , 2005, 93, 463-470.	0.6	108
9	Therapeutic modulation of synaptic connectivity with desynchronizing brain stimulation. <i>International Journal of Psychophysiology</i> , 2007, 64, 53-61.	0.5	107
10	Therapeutic rewiring by means of desynchronizing brain stimulation. <i>BioSystems</i> , 2007, 89, 173-181.	0.9	101
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	Long-lasting desynchronization in rat hippocampal slice induced by coordinated reset stimulation. <i>Physical Review E</i> , 2009, 80, 011902.	0.8	84
13	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
14	Reversing pathologically increased EEG power by acoustic coordinated reset neuromodulation. <i>Human Brain Mapping</i> , 2014, 35, 2099-2118.	1.9	81
15	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
16	Modified Pulse Shapes for Effective Neural Stimulation. <i>Frontiers in Neuroengineering</i> , 2011, 4, 9.	4.8	69
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	The generation of Parkinsonian tremor as revealed by directional coupling analysis. Europhysics Letters, 2008, 83, 20003.	0.7	51
20	Control of spatially patterned synchrony with multisite delayed feedback. Physical Review E, 2007, 76, 066209.	0.8	44
21	Changes of oscillatory activity in pitch processing network and related tinnitus relief induced by acoustic CR neuromodulation. Frontiers in Systems Neuroscience, 2012, 6, 18.	1.2	41
22	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
23	Restoration of segregated, physiological neuronal connectivity by desynchronizing stimulation. Journal of Neural Engineering, 2010, 7, 056008.	1.8	37
24	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
25	DESYNCHRONIZATION AND DECOUPLING OF INTERACTING OSCILLATORS BY NONLINEAR DELAYED FEEDBACK. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1977-1987.	0.7	33
26	Tremor entrainment by patterned low-frequency stimulation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3545-3573.	1.6	31
27	DEVELOPMENT OF THERAPEUTIC BRAIN STIMULATION TECHNIQUES WITH METHODS FROM NONLINEAR DYNAMICS AND STATISTICAL PHYSICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1889-1911.	0.7	30
28	Abnormal cross-frequency coupling in the tinnitus network. Frontiers in Neuroscience, 2014, 8, 284.	1.4	30
29	External trial deep brain stimulation device for the application of desynchronizing stimulation techniques. Journal of Neural Engineering, 2009, 6, 066003.	1.8	29
30	Data-driven approach to the estimation of connectivity and time delays in the coupling of interacting neuronal subsystems. Journal of Neuroscience Methods, 2010, 191, 32-44.	1.3	26
31	Impact of Nonlinear Delayed Feedback on Synchronized Oscillators. Journal of Biological Physics, 2008, 34, 267-279.	0.7	21
32	Acoustic Coordinated Reset Neuromodulation in a Real Life Patient Population with Chronic Tonal Tinnitus. BioMed Research International, 2015, 2015, 1-8.	0.9	20
33	Validation of a Mobile Device for Acoustic Coordinated Reset Neuromodulation Tinnitus Therapy. Journal of the American Academy of Audiology, 2016, 27, 720-731.	0.4	17
34	Acoustic CR Neuromodulation Therapy for Subjective Tonal Tinnitus: A Review of Clinical Outcomes in an Independent Audiology Practice Setting. Frontiers in Neurology, 2015, 6, 54.	1.1	16
35	Information capacity and pattern formation in a tent map network featuring statistical periodicity. Physical Review E, 2003, 67, 026217.	0.8	9
36	Adapted Acoustic CR Neuromodulation in Patients With Chronic Tonal Tinnitus and Hearing Loss. Frontiers in Medicine, 2018, 5, 288.	1.2	8

#	ARTICLE	IF	CITATIONS
37	Randomised controlled trial of interventions for bothersome tinnitus: Desyncra <sup>TM</sup> versus cognitive behavioural therapy. International Journal of Audiology, 2022, 61, 1035-1044.	0.9	4
38	Rebuttal to reply by G. R��cker and G. Antes on Tass et al. "Counteracting tinnitus by acoustic coordinated reset neuromodulation", Restorative Neurology and Neuroscience Vol. 30(2), 2012. Restorative Neurology and Neuroscience, 2013, 31, 235-237.	0.4	3
39	Capacitive Feedthroughs for Medical Implants. Frontiers in Neuroscience, 2016, 10, 404.	1.4	3
40	Technical Feasibility of Acoustic Coordinated Reset Therapy for Tinnitus Delivered via Hearing Aids: A Case Study. Case Reports in Otolaryngology, 2017, 2017, 1-6.	0.1	3
41	Demand-Controlled Desynchronization of Brain Rhythms by Means of Nonlinear Delayed Feedback. , 2005, 2005, 7656-9.		2
42	Desynchronization (computational neuroscience). Scholarpedia Journal, 2011, 6, 1352.	0.3	2
43	Intermittent burst synchronization in neural networks. Lecture Notes in Computer Science, 2003, , 46-53.	1.0	2
44	Brain Pacemaker. , 2009, , 626-644.		1
45	Brain Pacemaker. , 2018, , 1-29.		1
46	Brain Pacemaker. , 2020, , 235-262.		1
47	Control of Synchronization in Oscillatory Neural Networks. , 0, , 651-682.		0
48	Reshaping connectivity patterns by controlling the collective dynamics of bursting neurons. , 2008, , .		0
49	The translational value of the MPTP non-human primate model of Parkinsonism for deep brain stimulation research. , 2011, 2011, 663-6.		0
50	A Matlab toolbox for analyzing repetitive movements: application in gait and tapping experiments. Biomedizinische Technik, 2020, 65, 447-459.	0.9	0
51	Deep Brain Stimulation (Models, Theory, Techniques): Overview. , 2014, , 1-5.		0
52	Deep Brain Stimulation (Models, Theory, Techniques): Overview. , 2022, , 37-40.		0