

Simon Hanslmayr

List of Publications by Year in descending order

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112
papers

13,459
citations

53751

45
h-index

29127

104
g-index

143
all docs

143
docs citations

143
times ranked

9520
citing authors

#	ARTICLE	IF	CITATIONS
1	EEG alpha oscillations: The inhibitionâ€œtiming hypothesis. <i>Brain Research Reviews</i> , 2007, 53, 63-88.	9.1	3,105
2	A shift of visual spatial attention is selectively associated with human EEG alpha activity. <i>European Journal of Neuroscience</i> , 2005, 22, 2917-2926.	1.2	708
3	Prestimulus oscillations predict visual perception performance between and within subjects. <i>NeuroImage</i> , 2007, 37, 1465-1473.	2.1	613
4	Neural mechanisms of motivated forgetting. <i>Trends in Cognitive Sciences</i> , 2014, 18, 279-292.	4.0	428
5	The Electrophysiological Dynamics of Interference during the Stroop Task. <i>Journal of Cognitive Neuroscience</i> , 2008, 20, 215-225.	1.1	399
6	EEG alpha synchronization and functional coupling during top-down processing in a working memory task. <i>Human Brain Mapping</i> , 2005, 26, 148-155.	1.9	389
7	Oscillatory power decreases and long-term memory: the information via desynchronization hypothesis. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 74.	1.0	369
8	Increasing Individual Upper Alpha Power by Neurofeedback Improves Cognitive Performance in Human Subjects. <i>Applied Psychophysiology Biofeedback</i> , 2005, 30, 1-10.	1.0	364
9	Are event-related potential components generated by phase resetting of brain oscillations? A critical discussion. <i>Neuroscience</i> , 2007, 146, 1435-1444.	1.1	317
10	The role of alpha oscillations in temporal attention. <i>Brain Research Reviews</i> , 2011, 67, 331-343.	9.1	304
11	Oscillations and Episodic Memory: Addressing the Synchronization/Desynchronization Conundrum. <i>Trends in Neurosciences</i> , 2016, 39, 16-25.	4.2	295
12	Brain Oscillations Dissociate between Semantic and Nonsemantic Encoding of Episodic Memories. <i>Cerebral Cortex</i> , 2009, 19, 1631-1640.	1.6	269
13	Event-related phase reorganization may explain evoked neural dynamics. <i>Neuroscience and Biobehavioral Reviews</i> , 2007, 31, 1003-1016.	2.9	264
14	Theta Oscillations at Encoding Mediate the Context-Dependent Nature of Human Episodic Memory. <i>Current Biology</i> , 2013, 23, 1101-1106.	1.8	222
15	Visual discrimination performance is related to decreased alpha amplitude but increased phase locking. <i>Neuroscience Letters</i> , 2005, 375, 64-68.	1.0	220
16	Hippocampal-Prefrontal Theta Oscillations Support Memory Integration. <i>Current Biology</i> , 2016, 26, 450-457.	1.8	219
17	How brain oscillations form memories â€œ A processing based perspective on oscillatory subsequent memory effects. <i>NeuroImage</i> , 2014, 85, 648-655.	2.1	202
18	Theta coupling in the human electroencephalogram during a working memory task. <i>Neuroscience Letters</i> , 2004, 354, 123-126.	1.0	190

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19	Upper alpha ERD and absolute power: their meaning for memory performance. <i>Progress in Brain Research</i> , 2006, 159, 151-165.	0.9	177
20	The Relationship between Brain Oscillations and BOLD Signal during Memory Formation: A Combined EEG-fMRI Study. <i>Journal of Neuroscience</i> , 2011, 31, 15674-15680.	1.7	174
21	Entrainment of Prefrontal Beta Oscillations Induces an Endogenous Echo and Impairs Memory Formation. <i>Current Biology</i> , 2014, 24, 904-909.	1.8	172
22	Alpha Phase Reset Contributes to the Generation of ERPs. <i>Cerebral Cortex</i> , 2006, 17, 1-8.	1.6	166
23	Modulating Human Memory via Entrainment of Brain Oscillations. <i>Trends in Neurosciences</i> , 2019, 42, 485-499.	4.2	158
24	Alpha/Beta Oscillations Indicate Inhibition of Interfering Visual Memories. <i>Journal of Neuroscience</i> , 2012, 32, 1953-1961.	1.7	151
25	Prestimulus Oscillatory Phase at 7 Hz Gates Cortical Information Flow and Visual Perception. <i>Current Biology</i> , 2013, 23, 2273-2278.	1.8	145
26	Relevance of EEG alpha and theta oscillations during task switching. <i>Experimental Brain Research</i> , 2006, 170, 295-301.	0.7	140
27	Theta Phase Synchronization Is the Glue that Binds Human Associative Memory. <i>Current Biology</i> , 2017, 27, 3143-3148.e6.	1.8	124
28	Theta Oscillations Reflect the Dynamics of Interference in Episodic Memory Retrieval. <i>Journal of Neuroscience</i> , 2010, 30, 11356-11362.	1.7	122
29	Episodic Memory Retrieval Functionally Relies on Very Rapid Reactivation of Sensory Information. <i>Journal of Neuroscience</i> , 2016, 36, 251-260.	1.7	117
30	Alpha/beta power decreases track the fidelity of stimulus-specific information. <i>ELife</i> , 2019, 8, .	2.8	104
31	Directional coupling of slow and fast hippocampal gamma with neocortical alpha/beta oscillations in human episodic memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21834-21842.	3.3	96
32	Intelligence related differences in EEG-bandpower. <i>Neuroscience Letters</i> , 2005, 381, 309-313.	1.0	93
33	Neural Communication Patterns Underlying Conflict Detection, Resolution, and Adaptation. <i>Journal of Neuroscience</i> , 2014, 34, 10438-10452.	1.7	90
34	The best of both worlds: Phase-reset of human EEG alpha activity and additive power contribute to ERP generation. <i>International Journal of Psychophysiology</i> , 2007, 65, 58-68.	0.5	88
35	Theta oscillations predict the detrimental effects of memory retrieval. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2010, 10, 329-338.	1.0	86
36	Brain oscillatory subsequent memory effects differ in power and long-range synchronization between semantic and survival processing. <i>NeuroImage</i> , 2013, 79, 361-370.	2.1	86

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37	P1 and Traveling Alpha Waves: Evidence for Evoked Oscillations. <i>Journal of Neurophysiology</i> , 2007, 97, 1311-1318.	0.9	84
38	Binding and inhibition in episodic memory – Cognitive, emotional, and neural processes. <i>Neuroscience and Biobehavioral Reviews</i> , 2010, 34, 1047-1054.	2.9	83
39	The Temporal Signature of Memories: Identification of a General Mechanism for Dynamic Memory Replay in Humans. <i>PLoS Biology</i> , 2016, 14, e1002528.	2.6	83
40	An Optimal Oscillatory Phase for Pattern Reactivation during Memory Retrieval. <i>Current Biology</i> , 2018, 28, 3383-3392.e6.	1.8	82
41	Oscillatory correlates of intentional updating in episodic memory. <i>NeuroImage</i> , 2008, 41, 596-604.	2.1	73
42	Anticipatory Signatures of Voluntary Memory Suppression. <i>Journal of Neuroscience</i> , 2009, 29, 2742-2747.	1.7	72
43	Prefrontally Driven Downregulation of Neural Synchrony Mediates Goal-Directed Forgetting. <i>Journal of Neuroscience</i> , 2012, 32, 14742-14751.	1.7	69
44	Rapid Memory Reactivation Revealed by Oscillatory Entrainment. <i>Current Biology</i> , 2012, 22, 1482-1486.	1.8	63
45	Brain oscillations track the formation of episodic memories in the real world. <i>NeuroImage</i> , 2016, 143, 256-266.	2.1	62
46	Oscillatory Correlates of Retrieval-induced Forgetting in Recognition Memory. <i>Journal of Cognitive Neuroscience</i> , 2008, 21, 976-990.	1.1	61
47	Single-Trial Phase Entrainment of Theta Oscillations in Sensory Regions Predicts Human Associative Memory Performance. <i>Journal of Neuroscience</i> , 2018, 38, 6299-6309.	1.7	59
48	Temporal-Pattern Similarity Analysis Reveals the Beneficial and Detrimental Effects of Context Reinstatement on Human Memory. <i>Journal of Neuroscience</i> , 2015, 35, 5373-5384.	1.7	57
49	Speed of time-compressed forward replay flexibly changes in human episodic memory. <i>Nature Human Behaviour</i> , 2019, 3, 143-154.	6.2	57
50	Spectral fingerprints or spectral tilt? Evidence for distinct oscillatory signatures of memory formation. <i>PLoS Biology</i> , 2019, 17, e3000403.	2.6	52
51	The Sync/deSync Model: How a Synchronized Hippocampus and a Desynchronized Neocortex Code Memories. <i>Journal of Neuroscience</i> , 2018, 38, 3428-3440.	1.7	51
52	Memory signals from the thalamus: Early thalamocortical phase synchronization entrains gamma oscillations during long-term memory retrieval. <i>Neuropsychologia</i> , 2012, 50, 3519-3527.	0.7	50
53	Two Spatially Distinct Posterior Alpha Sources Fulfill Different Functional Roles in Attention. <i>Journal of Neuroscience</i> , 2019, 39, 7183-7194.	1.7	47
54	Alpha entrainment is responsible for the attentional blink phenomenon. <i>NeuroImage</i> , 2012, 63, 674-686.	2.1	45

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55	Oscillatory brain activity before and after an internal context change – Evidence for a reset of encoding processes. <i>NeuroImage</i> , 2008, 43, 173-181.	2.1	44
56	Enhanced resting-state oscillations in schizophrenia are associated with decreased synchronization during inattentive blindness. <i>Human Brain Mapping</i> , 2013, 34, 2266-2275.	1.9	44
57	Distinguishing the evoked response from phase reset: A comment to MÅkinen et al.. <i>NeuroImage</i> , 2006, 29, 808-811.	2.1	41
58	EEG alpha oscillations in the preparation for global and local processing predict behavioral performance. <i>Human Brain Mapping</i> , 2009, 30, 2173-2183.	1.9	41
59	Source-retrieval requirements influence late ERP and EEG memory effects. <i>Brain Research</i> , 2007, 1172, 110-123.	1.1	40
60	Resting frontal EEG alpha-asymmetry predicts the evaluation of affective musical stimuli. <i>Neuroscience Letters</i> , 2009, 460, 237-240.	1.0	40
61	Spatial Mnemonic Encoding: Theta Power Decreases and Medial Temporal Lobe BOLD Increases Co-Occur during the Usage of the Method of Loci. <i>ENeuro</i> , 2016, 3, ENEURO.0184-16.2016.	0.9	40
62	Data-driven re-referencing of intracranial EEG based on independent component analysis (ICA). <i>Journal of Neuroscience Methods</i> , 2018, 307, 125-137.	1.3	38
63	Anticipation boosts forgetting of voluntarily suppressed memories. <i>Memory</i> , 2010, 18, 252-257.	0.9	37
64	Out and about: Subsequent memory effect captured in a natural outdoor environment with smartphone EEG. <i>Psychophysiology</i> , 2019, 56, e13331.	1.2	36
65	Alpha, beta: The rhythm of the attentional blink. <i>Psychonomic Bulletin and Review</i> , 2017, 24, 1862-1869.	1.4	35
66	The hippocampus as the switchboard between perception and memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	35
67	Inhibition of Return Arises from Inhibition of Response Processes: An Analysis of Oscillatory Beta Activity. <i>Journal of Cognitive Neuroscience</i> , 2008, 20, 65-75.	1.1	34
68	Alpha Phase Locking Predicts Residual Working Memory Performance in Schizophrenia. <i>Biological Psychiatry</i> , 2010, 68, 595-598.	0.7	34
69	Brain Oscillations Mediate Successful Suppression of Unwanted Memories. <i>Cerebral Cortex</i> , 2015, 25, 4180-4190.	1.6	34
70	Human Hippocampal Dynamics during Response Conflict. <i>Current Biology</i> , 2015, 25, 2307-2313.	1.8	34
71	Disentangling neocortical alpha/beta and hippocampal theta/gamma oscillations in human episodic memory formation. <i>NeuroImage</i> , 2021, 242, 118454.	2.1	34
72	Direct Electrophysiological Evidence for Prefrontal Control of Hippocampal Processing during Voluntary Forgetting. <i>Current Biology</i> , 2018, 28, 3016-3022.e4.	1.8	33

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73	Spurious correlations in simultaneous EEG-fMRI driven by in-scanner movement. <i>NeuroImage</i> , 2016, 133, 354-366.	2.1	32
74	Effects of mood on the speed of conscious perception: behavioural and electrophysiological evidence. <i>Social Cognitive and Affective Neuroscience</i> , 2009, 4, 286-293.	1.5	30
75	Conflict processing in the anterior cingulate cortex constrains response priming. <i>NeuroImage</i> , 2010, 50, 1599-1605.	2.1	27
76	The neural dynamics of deficient memory control in heavily traumatized refugees. <i>Scientific Reports</i> , 2018, 8, 13132.	1.6	27
77	Medial Prefrontal Theta Oscillations Track the Time Course of Interference during Selective Memory Retrieval. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 777-791.	1.1	24
78	Theta rhythmicity governs human behavior and hippocampal signals during memory-dependent tasks. <i>Nature Communications</i> , 2021, 12, 7048.	5.8	24
79	Probing the causal role of prestimulus interregional synchrony for perceptual integration via tACS. <i>Scientific Reports</i> , 2016, 6, 32065.	1.6	22
80	Alpha/beta power decreases during episodic memory formation predict the magnitude of alpha/beta power decreases during subsequent retrieval. <i>Neuropsychologia</i> , 2021, 153, 107755.	0.7	21
81	Across-subjects classification of stimulus modality from human MEG high frequency activity. <i>PLoS Computational Biology</i> , 2018, 14, e1005938.	1.5	20
82	Gamma oscillatory activity in a visual discrimination task. <i>Brain Research Bulletin</i> , 2007, 71, 593-600.	1.4	19
83	Low-Frequency Oscillations Code Speech during Verbal Working Memory. <i>Journal of Neuroscience</i> , 2019, 39, 6498-6512.	1.7	19
84	Replay of Stimulus-specific Temporal Patterns during Associative Memory Formation. <i>Journal of Cognitive Neuroscience</i> , 2018, 30, 1577-1589.	1.1	17
85	On the effectiveness of event-related beta tACS on episodic memory formation and motor cortex excitability. <i>Brain Stimulation</i> , 2017, 10, 910-918.	0.7	16
86	Aberrant prefrontal beta oscillations predict episodic memory encoding deficits in schizophrenia. <i>NeuroImage: Clinical</i> , 2016, 12, 499-505.	1.4	13
87	Theta oscillations show impaired interference detection in older adults during selective memory retrieval. <i>Scientific Reports</i> , 2019, 9, 9977.	1.6	11
88	Reactivation of neural patterns during memory reinstatement supports encoding specificity. <i>Cognitive Neuroscience</i> , 2019, 10, 175-185.	0.6	11
89	Auditory detection is modulated by theta phase of silent lip movements. <i>Current Research in Neurobiology</i> , 2021, 2, 100014.	1.1	11
90	Rhythmic interactions between the mediodorsal thalamus and prefrontal cortex precede human visual perception. <i>Nature Communications</i> , 2022, 13, .	5.8	11

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91	Human Memory: Brain-State-Dependent Effects of Stimulation. <i>Current Biology</i> , 2017, 27, R385-R387.	1.8	9
92	Stimulation of the left dorsolateral prefrontal cortex with slow rTMS enhances verbal memory formation. <i>PLoS Biology</i> , 2021, 19, e3001363.	2.6	9
93	Addressing challenges of high spatial resolution UHF fMRI for group analysis of higher-order cognitive tasks: An inter-sensory task directing attention between visual and somatosensory domains. <i>Human Brain Mapping</i> , 2019, 40, 1298-1316.	1.9	8
94	The brain time toolbox, a software library to retune electrophysiology data to brain dynamics. <i>Nature Human Behaviour</i> , 2022, 6, 1430-1439.	6.2	8
95	Forgetting in the no-think paradigm: Interference or inhibition?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, E3.	3.3	6
96	Memory deficits in Parkinson's disease are associated with reduced beta power modulation. <i>Brain Communications</i> , 2019, 1, fcz040.	1.5	6
97	Investigating the role of phase-synchrony during encoding of episodic memories using electrical stimulation. <i>Cortex</i> , 2020, 133, 37-47.	1.1	4
98	EEG and fMRI evidence for autobiographical memory reactivation in empathy. <i>Human Brain Mapping</i> , 2021, 42, 4448-4464.	1.9	4
99	Using fast visual rhythmic stimulation to control inter-hemispheric phase offsets in visual areas. <i>Neuropsychologia</i> , 2021, 157, 107863.	0.7	4
100	The Sync-Fire/deSync model: Modelling the reactivation of dynamic memories from cortical alpha oscillations. <i>Neuropsychologia</i> , 2021, 158, 107867.	0.7	4
101	Brain Oscillations, Semantic Processing, and Episodic Memory. <i>Innovations in Cognitive Neuroscience</i> , 2017, , 63-80.	0.3	3
102	Entraining neurons via noninvasive electric stimulation improves cognition. <i>PLoS Biology</i> , 2020, 18, e3000931.	2.6	3
103	Probing the causal involvement of dlPFC in directed forgetting using rTMS: A replication study. <i>PLoS ONE</i> , 2020, 15, e0236287.	1.1	1
104	The Role of Brain Oscillations in the Temporal Limits of Attention. , 2014, , .		1
105	The role of pre-stimulus alpha oscillation in distractor filtering during a Visual Search task. <i>Journal of Vision</i> , 2018, 18, 979.	0.1	1
106	The effect of visual entrainment on target detection in visual search.. <i>Journal of Vision</i> , 2015, 15, 1249.	0.1	0
107	Gluing Memories via Oscillations: Theta phase synchronization drives associative memory formation in humans. <i>Journal of Vision</i> , 2016, 16, 151.	0.1	0
108	An Optimal Oscillatory Phase for Pattern Reactivation During Memory Retrieval. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

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109	Probing the causal involvement of dlPFC in directed forgetting using rTMSâ€”A replication study. , 2020, 15, e0236287.		0
110	Probing the causal involvement of dlPFC in directed forgetting using rTMSâ€”A replication study. , 2020, 15, e0236287.		0
111	Probing the causal involvement of dlPFC in directed forgetting using rTMSâ€”A replication study. , 2020, 15, e0236287.		0
112	Probing the causal involvement of dlPFC in directed forgetting using rTMSâ€”A replication study. , 2020, 15, e0236287.		0