

# Erol BaÅar

## List of Publications by Year in descending order

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125  
papers

9,892  
citations

34016

52  
h-index

37111

96  
g-index

129  
all docs

129  
docs citations

129  
times ranked

7151  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gamma, alpha, delta, and theta oscillations govern cognitive processes. <i>International Journal of Psychophysiology</i> , 2001, 39, 241-248.	0.5	989
2	Wavelet entropy: a new tool for analysis of short duration brain electrical signals. <i>Journal of Neuroscience Methods</i> , 2001, 105, 65-75.	1.3	712
3	P300-response: possible psychophysiological correlates in delta and theta frequency channels. A review. <i>International Journal of Psychophysiology</i> , 1992, 13, 161-179.	0.5	481
4	Are cognitive processes manifested in event-related gamma, alpha, theta and delta oscillations in the EEG?. <i>Neuroscience Letters</i> , 1999, 259, 165-168.	1.0	337
5	Gamma-band responses in the brain: a short review of psychophysiological correlates and functional significance. <i>International Journal of Psychophysiology</i> , 1996, 24, 101-112.	0.5	294
6	A review of brain oscillations in cognitive disorders and the role of neurotransmitters. <i>Brain Research</i> , 2008, 1235, 172-193.	1.1	230
7	A review of alpha activity in integrative brain function: Fundamental physiology, sensory coding, cognition and pathology. <i>International Journal of Psychophysiology</i> , 2012, 86, 1-24.	0.5	226
8	The genesis of human event-related responses explained through the theory of oscillatory neural assemblies. <i>Neuroscience Letters</i> , 2000, 285, 45-48.	1.0	213
9	A review of brain oscillations in perception of faces and emotional pictures. <i>Neuropsychologia</i> , 2014, 58, 33-51.	0.7	198
10	Emotional face expressions are differentiated with brain oscillations. <i>International Journal of Psychophysiology</i> , 2007, 64, 91-100.	0.5	174
11	International Federation of Clinical Neurophysiology (IFCN) " EEG research workgroup: Recommendations on frequency and topographic analysis of resting state EEG rhythms. Part 1: Applications in clinical research studies. <i>Clinical Neurophysiology</i> , 2020, 131, 285-307.	0.7	164
12	Review of evoked and event-related delta responses in the human brain. <i>International Journal of Psychophysiology</i> , 2016, 103, 43-52.	0.5	150
13	Frontal gamma-band enhancement during multistable visual perception. <i>International Journal of Psychophysiology</i> , 1996, 24, 113-125.	0.5	148
14	Event-related oscillations are "real brain responses" wavelet analysis and new strategies. <i>International Journal of Psychophysiology</i> , 2001, 39, 91-127.	0.5	148
15	The selectively distributed theta system: functions. <i>International Journal of Psychophysiology</i> , 2001, 39, 197-212.	0.5	141
16	Wavelet analysis of oddball P300. <i>International Journal of Psychophysiology</i> , 2001, 39, 221-227.	0.5	135
17	A review of gamma oscillations in healthy subjects and in cognitive impairment. <i>International Journal of Psychophysiology</i> , 2013, 90, 99-117.	0.5	127
18	Early gamma response is sensory in origin: a conclusion based on cross-comparison of results from multiple experimental paradigms. <i>International Journal of Psychophysiology</i> , 1998, 31, 13-31.	0.5	125

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19	Functional aspects of alpha oscillations in the EEG. <i>International Journal of Psychophysiology</i> , 2001, 39, 151-158.	0.5	124
20	Detection of P300 Waves in Single Trials by the Wavelet Transform (WT). <i>Brain and Language</i> , 1999, 66, 108-128.	0.8	121
21	Theta rhythmicities following expected visual and auditory targets. <i>International Journal of Psychophysiology</i> , 1992, 13, 147-160.	0.5	116
22	Brain oscillations in neuropsychiatric disease. <i>Dialogues in Clinical Neuroscience</i> , 2013, 15, 291-300.	1.8	115
23	Brain Function and Oscillations. <i>Springer Series in Synergetics</i> , 1998, , .	0.2	114
24	Wavelet entropy analysis of event-related potentials indicates modality-independent theta dominance. <i>Journal of Neuroscience Methods</i> , 2002, 117, 99-109.	1.3	110
25	Review of delta, theta, alpha, beta, and gamma response oscillations in neuropsychiatric disorders. <i>Supplements To Clinical Neurophysiology</i> , 2013, 62, 303-341.	2.1	110
26	The theory of the whole-brain-work. <i>International Journal of Psychophysiology</i> , 2006, 60, 133-138.	0.5	108
27	Brain Function and Oscillations. <i>Springer Series in Synergetics</i> , 1999, , .	0.2	104
28	Oscillatory Brain Dynamics, Wavelet Analysis, and Cognition. <i>Brain and Language</i> , 1999, 66, 146-183.	0.8	102
29	A short review of alpha activity in cognitive processes and in cognitive impairment. <i>International Journal of Psychophysiology</i> , 2012, 86, 25-38.	0.5	100
30	Event-related beta oscillations are affected by emotional eliciting stimuli. <i>Neuroscience Letters</i> , 2010, 483, 173-178.	1.0	98
31	Reduced long distance gamma (28-48Hz) coherence in euthymic patients with bipolar disorder. <i>Journal of Affective Disorders</i> , 2011, 132, 325-332.	2.0	93
32	Brain's alpha, beta, gamma, delta, and theta oscillations in neuropsychiatric diseases. <i>Supplements To Clinical Neurophysiology</i> , 2013, 62, 19-54.	2.1	93
33	Occipital sources of resting-state alpha rhythms are related to local gray matter density in subjects with amnesic mild cognitive impairment and Alzheimer's disease. <i>Neurobiology of Aging</i> , 2015, 36, 556-570.	1.5	93
34	Comparison of ongoing compound field potentials in the brains of invertebrates and vertebrates. <i>Brain Research Reviews</i> , 1988, 13, 57-75.	9.1	92
35	Beta oscillatory responses in healthy subjects and subjects with mild cognitive impairment. <i>NeuroImage: Clinical</i> , 2013, 3, 39-46.	1.4	90
36	Delta responses and cognitive processing: single-trial evaluations of human visual P300. <i>International Journal of Psychophysiology</i> , 2001, 39, 229-239.	0.5	88

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37	Age effects on visual EEG responses reveal distinct frontal alpha networks. <i>Clinical Neurophysiology</i> , 2002, 113, 901-910.	0.7	82
38	Abnormalities of cortical neural synchronization mechanisms in patients with dementia due to Alzheimer's and Lewy body diseases: an EEG study. <i>Neurobiology of Aging</i> , 2017, 55, 143-158.	1.5	76
39	Spontaneous EEG theta activity controls frontal visual evoked potential amplitudes. <i>Electroencephalography and Clinical Neurophysiology - Evoked Potentials</i> , 1998, 108, 101-109.	2.0	73
40	A study of the time and frequency characteristics of the potentials evoked in the acoustical cortex. <i>Biological Cybernetics</i> , 1972, 10, 61-64.	0.6	72
41	Topological distribution of oddball P300™ responses. <i>International Journal of Psychophysiology</i> , 2001, 39, 213-220.	0.5	72
42	Biomarkers in Alzheimer's disease with a special emphasis on event-related oscillatory responses. <i>Supplements To Clinical Neurophysiology</i> , 2013, 62, 237-273.	2.1	71
43	A new metric for analyzing single-trial event-related potentials (ERPs): application to human visual P300 delta response. <i>Neuroscience Letters</i> , 1995, 197, 167-170.	1.0	69
44	Evoked and event related coherence of Alzheimer patients manifest differentiation of sensory cognitive networks. <i>Brain Research</i> , 2010, 1357, 79-90.	1.1	66
45	Disturbance in long distance gamma coherence in bipolar disorder. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2010, 34, 861-865.	2.5	66
46	Electroencephalogram alpha (8-15 Hz) responses to visual stimuli in cat cortex, thalamus, and hippocampus: a distributed alpha network?. <i>Neuroscience Letters</i> , 2000, 292, 175-178.	1.0	65
47	Principles of oscillatory brain dynamics and a treatise of recognition of faces and facial expressions. <i>Progress in Brain Research</i> , 2006, 159, 43-62.	0.9	64
48	Bisensory stimulation increases gamma-responses over multiple cortical regions. <i>Cognitive Brain Research</i> , 2001, 11, 267-279.	3.3	61
49	Abnormalities of resting-state functional cortical connectivity in patients with dementia due to Alzheimer's and Lewy body diseases: an EEG study. <i>Neurobiology of Aging</i> , 2018, 65, 18-40.	1.5	61
50	EEG theta and frontal alpha oscillations during auditory processing change with aging. <i>Electroencephalography and Clinical Neurophysiology - Evoked Potentials</i> , 1998, 108, 497-505.	2.0	60
51	Brain oscillatory responses in patients with bipolar disorder manic episode before and after valproate treatment. <i>Brain Research</i> , 2008, 1235, 98-108.	1.1	60
52	A new interpretation of P300 responses upon analysis of coherences. <i>Cognitive Neurodynamics</i> , 2010, 4, 107-118.	2.3	60
53	Increased frontal phase-locking of event-related alpha oscillations during task processing. <i>International Journal of Psychophysiology</i> , 2001, 39, 159-165.	0.5	58
54	Brain oscillations evoked by the face of a loved person. <i>Brain Research</i> , 2008, 1214, 105-115.	1.1	55

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55	Delay of cognitive gamma responses in Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2016, 11, 106-115.	1.4	54
56	Topography of alpha and theta oscillatory responses upon auditory and visual stimuli in humans. <i>Biological Cybernetics</i> , 1994, 72, 161-174.	0.6	52
57	Sensory evoked and event related oscillations in Alzheimer's disease: a short review. <i>Cognitive Neurodynamics</i> , 2010, 4, 263-274.	2.3	52
58	Functional aspects of evoked alpha and theta responses in humans and cats. <i>Biological Cybernetics</i> , 1994, 72, 175-183.	0.6	50
59	Brain oscillations as biomarkers in neuropsychiatric disorders. <i>Supplements To Clinical Neurophysiology</i> , 2013, 62, 343-363.	2.1	50
60	Abnormalities of Resting State Cortical EEG Rhythms in Subjects with Mild Cognitive Impairment Due to Alzheimer's and Lewy Body Diseases. <i>Journal of Alzheimer's Disease</i> , 2018, 62, 247-268.	1.2	50
61	Oscillations in "brain-body-mind" A holistic view including the autonomous system. <i>Brain Research</i> , 2008, 1235, 2-11.	1.1	48
62	Selectively distributed gamma band system of the brain. <i>International Journal of Psychophysiology</i> , 2001, 39, 129-135.	0.5	47
63	Increased long distance event-related gamma band connectivity in Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2017, 14, 580-590.	1.4	47
64	Beta oscillations in face recognition. <i>International Journal of Psychophysiology</i> , 2005, 55, 51-59.	0.5	46
65	Spatio-temporal frequency characteristics of intersensory components in audiovisually evoked potentials. <i>Cognitive Brain Research</i> , 2005, 23, 316-326.	3.3	46
66	Oscillatory frontal theta responses are increased upon bisensory stimulation. <i>Clinical Neurophysiology</i> , 2000, 111, 884-893.	0.7	45
67	EEG responses to combined somatosensory and transcranial magnetic stimulation. <i>Clinical Neurophysiology</i> , 2001, 112, 19-24.	0.7	45
68	Functional cortical source connectivity of resting state electroencephalographic alpha rhythms shows similar abnormalities in patients with mild cognitive impairment due to Alzheimer's and Parkinson's diseases. <i>Clinical Neurophysiology</i> , 2018, 129, 766-782.	0.7	45
69	Gender differences influence brain's beta oscillatory responses in recognition of facial expressions. <i>Neuroscience Letters</i> , 2007, 424, 94-99.	1.0	44
70	Event-related theta rhythms in cat hippocampus and prefrontal cortex during an omitted stimulus paradigm. <i>International Journal of Psychophysiology</i> , 1994, 18, 35-48.	0.5	43
71	Gamma responses in the EEG. <i>NeuroReport</i> , 1997, 8, 531-534.	0.6	43
72	Brain oscillations are highly influenced by gender differences. <i>International Journal of Psychophysiology</i> , 2007, 65, 294-299.	0.5	41

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73	Memory as the "whole brain work". International Journal of Psychophysiology, 2005, 58, 199-226.	0.5	39
74	Frontal delta event-related oscillations relate to frontal volume in mild cognitive impairment and healthy controls. International Journal of Psychophysiology, 2016, 103, 110-117.	0.5	39
75	Brain oscillations differentiate the picture of one's own grandmother. International Journal of Psychophysiology, 2007, 64, 81-90.	0.5	38
76	A comparative analysis of sensory visual evoked oscillations with visual cognitive event related oscillations in Alzheimer's disease. Neuroscience Letters, 2009, 462, 193-197.	1.0	38
77	SUPER-SYNERGY IN THE BRAIN: THE GRANDMOTHER PERCEPT IS MANIFESTED BY MULTIPLE OSCILLATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 453-491.	0.7	37
78	Distributed Gamma Band Responses in the Brain Studied in Cortex, Reticular Formation, Hippocampus and Cerebellum. International Journal of Neuroscience, 1996, 84, 1-13.	0.8	36
79	Affective pictures processing is reflected by an increased long-distance EEG connectivity. Cognitive Neurodynamics, 2017, 11, 355-367.	2.3	35
80	Gamma responses in the EEG. NeuroReport, 1997, 8, 1793-1796.	0.6	32
81	Facial affect manifested by multiple oscillations. International Journal of Psychophysiology, 2009, 71, 31-36.	0.5	32
82	Neurophysiological Assessment of Alzheimer's Disease Individuals by a Single Electroencephalographic Marker. Journal of Alzheimer's Disease, 2015, 49, 159-177.	1.2	32
83	Reduced Visual Event-Related Delta Oscillatory Responses in Amnesic Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2013, 37, 759-767.	1.2	31
84	Cognitive Impairment in Parkinson's Disease Is Reflected with Gradual Decrease of EEG Delta Responses during Auditory Discrimination. Frontiers in Psychology, 2018, 9, 170.	1.1	31
85	Resting state Rolandic mu rhythms are related to activity of sympathetic component of autonomic nervous system in healthy humans. International Journal of Psychophysiology, 2016, 103, 79-87.	0.5	30
86	EEG, Auditory Evoked Potentials and Evoked Rhythmicities in Three-Year-Old Children. International Journal of Neuroscience, 1994, 75, 239-255.	0.8	29
87	Darwin's evolution theory, brain oscillations, and complex brain function in a new "Cartesian view". International Journal of Psychophysiology, 2009, 71, 2-8.	0.5	29
88	Best method for analysis of brain oscillations in healthy subjects and neuropsychiatric diseases. International Journal of Psychophysiology, 2016, 103, 22-42.	0.5	29
89	EEG Rhythmicities Evoked by Visual Stimuli in Three-Year-Old Children. International Journal of Neuroscience, 1994, 75, 257-270.	0.8	28
90	A breakthrough in neuroscience needs a "Nebulous Cartesian System". International Journal of Psychophysiology, 2007, 64, 108-122.	0.5	28

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91	Brain-Body-Mind in the Nebulous Cartesian System: A Holistic Approach by Oscillations. , 2011, , .		26
92	Brain oscillations in bipolar disorder in search of new biomarkers. Supplements To Clinical Neurophysiology, 2013, 62, 207-221.	2.1	25
93	Decrease of event-related delta oscillations in euthymic patients with bipolar disorder. Psychiatry Research - Neuroimaging, 2014, 223, 43-48.	0.9	23
94	How is the brain working?. International Journal of Psychophysiology, 2016, 103, 3-11.	0.5	22
95	Prolongation of alpha oscillations in auditory oddball paradigm. International Journal of Psychophysiology, 2009, 71, 235-241.	0.5	21
96	The CLAIR model: Extension of Brodmann areas based on brain oscillations and connectivity. International Journal of Psychophysiology, 2016, 103, 185-198.	0.5	21
97	Fast rhythms in the hippocampus are a part of the diffuse gamma-response system. Hippocampus, 1995, 5, 240-241.	0.9	19
98	Toward new theories of brain function and brain dynamics. International Journal of Psychophysiology, 2001, 39, 87-89.	0.5	19
99	Multiple gamma oscillations in the brain: A new strategy to differentiate functional correlates and P300 dynamics. International Journal of Psychophysiology, 2015, 95, 406-420.	0.5	18
100	Decrease of delta oscillatory responses is associated with increased age in healthy elderly. International Journal of Psychophysiology, 2016, 103, 103-109.	0.5	18
101	Decrease of Delta Oscillatory Responses in Cognitively Normal Parkinsonâ€™s Disease. Clinical EEG and Neuroscience, 2017, 48, 355-364.	0.9	17
102	The visual cognitive network, but not the visual sensory network, is affected in amnesic mild cognitive impairment: A study of brain oscillatory responses. Brain Research, 2014, 1585, 141-149.	1.1	15
103	Links of Consciousness, Perception, and Memory by Means of Delta Oscillations of Brain. Frontiers in Psychology, 2016, 7, 275.	1.1	15
104	MACRODYNAMICS OF ELECTRICAL ACTIVITY IN THE WHOLE BRAIN. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 363-381.	0.7	14
105	Lithium excessively enhances event related beta oscillations in patients with bipolar disorder. Journal of Affective Disorders, 2015, 170, 59-65.	2.0	13
106	Event related oscillations in euthymic patients with bipolar disorder. Neuroscience Letters, 2008, 444, 5-10.	1.0	12
107	The brain as a working syncytium and memory as a continuum in a hyper timespace: Oscillations lead to a new model. International Journal of Psychophysiology, 2016, 103, 199-214.	0.5	12
108	Evoked Brain Rhythms are Altered Markedly in Middle-Aged Subjects: Single-Sweep Analysis. International Journal of Neuroscience, 1996, 85, 155-163.	0.8	11

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109	Neuroscience is awaiting for a breakthrough: An essay bridging the concepts of Descartes, Einstein, Heisenberg, Hebb and Hayek with the explanatory formulations in this special issue. <i>International Journal of Psychophysiology</i> , 2006, 60, 194-201.	0.5	9
110	Event related desynchronization: use as a neurophysiologic marker is restricted. <i>Cognitive Neurodynamics</i> , 2014, 8, 437-445.	2.3	8
111	Remarks on Mathematical Signal Processing by the Brain During Rhythmic Neurophysiological Stimulation. <i>International Journal of Neuroscience</i> , 1972, 4, 71-76.	0.8	7
112	Chapter 65 Time-frequency analysis of sensorial brain activity. <i>Supplements To Clinical Neurophysiology</i> , 2002, 54, 443-450.	2.1	7
113	Superbinding: Spatio-temporal oscillatory dynamics. <i>Theory in Biosciences</i> , 2003, 121, 371-386.	0.6	7
114	Increased Beta Frequency (15-30 Hz) Oscillatory Responses in Euthymic Bipolar Patients Under Lithium Monotherapy. <i>Clinical EEG and Neuroscience</i> , 2016, 47, 87-95.	0.9	6
115	Visual evoked potentials in multiple sclerosis: Frequency response shows reduced alpha amplitude. <i>International Journal of Neuroscience</i> , 1993, 73, 235-258.	0.8	5
116	Multiple Oscillations and Phase Locking in Human Gamma Responses: An Essay in Search of Eigenvalues. <i>NeuroQuantology</i> , 2012, 10, .	0.1	5
117	Is research on brain oscillations in a new "take off-state" in integrative brain function?. <i>International Journal of Psychophysiology</i> , 2012, 85, 285-288.	0.5	4
118	Preface. <i>Supplements To Clinical Neurophysiology</i> , 2013, 62, v-vi.	2.1	4
119	Macroscopic electrical activity as a conceptual framework in cognitive neuroscience. <i>Theory in Biosciences</i> , 2003, 121, 351-369.	0.6	3
120	Why the Concept of "Quantum Brain" was not Discovered in 1940s. <i>NeuroQuantology</i> , 2010, 8, .	0.1	3
121	Theta and Delta Responses in Cognitive Event-Related Potential Paradigms and Their Possible Psychophysiological Correlates. , 1994, , 334-367.		3
122	A comparative study of alpha responses in human occipital EEG recordings and in cat intracranial EEG recordings. , 1992, , .		1
123	What is the place of Psychophysiology in the Interdisciplinary Sciences? Welcoming Address of the Vice-President (Academic Affairs) at the Opening Ceremonies of the 12th World Congress of Psychophysiology, I.O.P. 2004. <i>International Journal of Psychophysiology</i> , 2005, 58, 117-118.	0.5	1
124	An Essay on Darwin's Theory and Bergson's Creative Evolution in the Era of NeuroQuantology. <i>NeuroQuantology</i> , 2009, 7, .	0.1	1
125	Mindful brain and EEG-neurophysiology. <i>International Journal of Psychophysiology</i> , 2016, 103, 1-2.	0.5	1