Vasil Kolev

List of Publications by Year
in descending order

96 papers	4,684 citations	101496 36 h-index	102432 66 g-index
103 all docs	103 docs citations	103 times ranked	4011 citing authors

#	Article	IF	Citations
1	Wavelet entropy: a new tool for analysis of short duration brain electrical signals. Journal of Neuroscience Methods, 2001, 105, 65-75.	1.3	712
2	Sensorimotor slowing with ageing is mediated by a functional dysregulation of motor-generation processes: evidence from high-resolution event-related potentials. Brain, 2004, 127, 351-362.	3.7	217
3	Parallel systems of error processing in the brain. NeuroImage, 2004, 22, 590-602.	2.1	195
4	Abnormal early stages of task stimulus processing in children with attention-deficit hyperactivity disorder â€“ evidence from event-related gamma oscillations. Clinical Neurophysiology, 2001, 112, 1096-1108.	0.7	166
5	Timeâ€“frequency analysis reveals multiple functional components during oddball P300. NeuroReport, 1997, 8, 2061-2065.	0.6	155
6	Single-sweep analysis of the theta frequency band during an auditory oddball task. Psychophysiology, 1998, 35, 116-126.	1.2	140
7	P300 and alpha event-related desynchronization (ERD). Psychophysiology, 2001, 38, 143-152.	1.2	126
8	Timeâ€“Frequency Analysis of Single-Sweep Event-Related Potentials by Means of Fast Wavelet Transform. Brain and Language, 1999, 66, 129-145.	0.8	120
9	Effects of aging on slowing of motor-response generation. International Journal of Psychophysiology, 2006, 59, 22-29.	0.5	111
10	Wavelet entropy analysis of event-related potentials indicates modality-independent theta dominance. Journal of Neuroscience Methods, 2002, 117, 99-109.	1.3	110
11	Delta responses and cognitive processing: single-trial evaluations of human visual P300. International Journal of Psychophysiology, 2001, 39, 229-239.	0.5	88
12	Increased event-related theta activity as a psychophysiological marker of comorbidity in children with tics and attention-deficit/hyperactivity disorders. NeuroImage, 2006, 32, 940-955.	2.1	87
13	Analysis of phase-locking is informative for studying event-related EEG activity. Biological Cybernetics, 1997, 76, 229-235.	0.6	85
14	On the relation of movement-related potentials to the go/no-go effect on P3. Biological Psychology, 2006, 73, 298-313.	1.1	85
15	Age effects on visual EEG responses reveal distinct frontal alpha networks. Clinical Neurophysiology, 2002, 113, 901-910.	0.7	82
16	Simultaneous EEG and fMRI Reveals a Causally Connected Subcortical-Cortical Network during Reward Anticipation. Journal of Neuroscience, 2013, 33, 14526-14533.	1.7	80
17	Stimulus context and motor preparation in attention-deficit/hyperactivity disorder. Biological Psychology, 2008, 77, 53-62.	1.1	77
18	Shifting from implicit to explicit knowledge: Different roles of early- and late-night sleep. Learning and Memory, 2008, 15, 508-515.	0.5	73

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19	Increased Alpha (8â€“12 Hz) Activity during Slow Wave Sleep as a Marker for the Transition from Implicit Knowledge to Explicit Insight. Journal of Cognitive Neuroscience, 2012, 24, 119-132.	1.1	72
20	Event-related alpha oscillations are functionally associated with P300 during information processing. NeuroReport, 1998, 9, 3159-3164.	0.6	71
21	A new metric for analyzing single-trial event-related potentials (ERPs): application to human visual P300 delta response. Neuroscience Letters, 1995, 197, 167-170.	1.0	69
22	Motor-response generation as a source of aging-related behavioural slowing in choice-reaction tasks. Neurobiology of Aging, 2006, 27, 1719-1730.	1.5	68
23	The phase-locking of auditory gamma band responses in humans is sensitive to task processing. NeuroReport, 1997, 8, 3999-4004.	0.6	65
24	Multiple time-frequency components account for the complex functional reactivity of P300. NeuroReport, 2000, 11, 1097-1103.	0.6	64
25	The Role of the BDNF Val66Met Polymorphism for the Synchronization of Error-Specific Neural Networks. Journal of Neuroscience, 2010, 30, 10727-10733.	1.7	62
26	EEG theta and frontal alpha oscillations during auditory processing change with aging. Electroencephalography and Clinical Neurophysiology - Evoked Potentials, 1998, 108, 497-505.	2.0	60
27	Developmental changes in the event-related EEG theta response and P300. Electroencephalography and Clinical Neurophysiology - Evoked Potentials, 1997, 104, 418-430.	2.0	59
28	Increased frontal phase-locking of event-related alpha oscillations during task processing. International Journal of Psychophysiology, 2001, 39, 159-165.	0.5	58
29	Developmental event-related gamma oscillations: effects of auditory attention. European Journal of Neuroscience, 2002, 16, 2214-2224.	1.2	54
30	Functional compensation or pathology in cortico-subcortical interactions in preclinical Huntington's disease?. Neuropsychologia, 2007, 45, 2922-2930.	0.7	51
31	Is the alpha rhythm a control parameter for brain responses?. Biological Cybernetics, 1997, 76, 471-480.	0.6	50
32	Developmental changes in the alpha response system. Electroencephalography and Clinical Neurophysiology, 1996, 99, 527-538.	0.3	47
33	Brain theta response predicts P300 latency in children. NeuroReport, 1996, 8, 277-280.	0.6	47
34	Time-on-task analysis using wavelet networks in an event-related potential study on attention-deficit hyperactivity disorder. Clinical Neurophysiology, 2001, 112, 1280-1287.	0.7	43
35	A transient dominance of theta event-related brain potential component characterizes stimulus processing in an auditory oddball task. Clinical Neurophysiology, 2003, 114, 529-540.	0.7	42
36	Functional 5â€HT1a receptor polymorphism selectively modulates errorâ€specific subprocesses of performance monitoring. Human Brain Mapping, 2010, 31, 621-630.	1.9	42

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37	Aging and Error Processing. Journal of Psychophysiology, 2005, 19, 289-297.	0.3	39
38	Tuning the brain for novelty detection under emotional threat: The role of increasing gamma phase-synchronization. NeuroImage, 2010, 49, 1038-1044.	2.1	38
39	Independent oscillatory patterns determine performance fluctuations in children with attention deficit/hyperactivity disorder. Brain, 2011, 134, 1740-1750.	3.7	38
40	Event-Related Prolongation of Induced Eeg Rhythmicities in Experiments with a Cognitive Task. International Journal of Neuroscience, 1992, 67, 199-213.	0.8	35
41	Event-related alpha oscillations in task processing. Clinical Neurophysiology, 1999, 110, 1784-1792.	0.7	34
42	Dynamic coupling between slow waves and sleep spindles during slow wave sleep in humans is modulated by functional pre-sleep activation. Scientific Reports, 2017, 7, 14496.	1.6	31
43	EEG, Auditory Evoked Potentials and Evoked Rhythmicities in Three-Year-Old Children. International Journal of Neuroscience, 1994, 75, 239-255.	0.8	29
44	EEG Rhythmicities Evoked by Visual Stimuli in Three-Year-Old Children. International Journal of Neuroscience, 1994, 75, 257-270.	0.8	28
45	Alpha response system in children: changes with age. International Journal of Psychophysiology, 1997, 26, 411-430.	0.5	28
46	Event-Related Brain Oscillations. Journal of Psychophysiology, 2009, 23, 174-182.	0.3	26
47	Synchronization of fronto-parietal beta and theta networks as a signature of visual awareness in neglect. NeuroImage, 2017, 146, 341-354.	2.1	26
48	Error-Related Oscillations. Journal of Psychophysiology, 2009, 23, 216-223.	0.3	26
49	Insights into sleep's role for insight: Studies with the number reduction task. Advances in Cognitive Psychology, 2013, 9, 160-172.	0.2	26
50	Effects of task variables on the amplitude and phase-locking of auditory gamma band responses in human. International Journal of Neuroscience, 1997, 92, 241-258.	0.8	25
51	Spatial coincidence modulates interaction between visual and somatosensory evoked potentials. NeuroReport, 2002, 13, 779-783.	0.6	25
52	May Posterror Performance Be a Critical Factor for Behavioral Deficits in Attention-Deficit/Hyperactivity Disorder?. Biological Psychiatry, 2011, 70, 246-254.	0.7	25
53	Sleep Spindles in the Right Hemisphere Support Awareness of Regularities and Reflect Pre-Sleep Activations. Sleep, 2017, 40, .	0.6	24
54	Differential Associations of Early- and Late-Night Sleep with Functional Brain States Promoting Insight to Abstract Task Regularity. PLoS ONE, 2010, 5, e9442.	1.1	24

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55	Event-related oscillations reflect functional asymmetry in children with attention deficit/hyperactivity disorder. Supplements To Clinical Neurophysiology, 2013, 62, 289-301.	2.1	23
56	Gamma band response in children is related to task-stimulus processing. NeuroReport, 2000, 11, 2325-2330.	0.6	22
57	A transient dominance of theta ERP component characterizes passive auditory processing: evidence from a developmental study. NeuroReport, 2001, 12, 2791-2796.	0.6	22
58	Insights into sleep's role for insight: Studies with the number reduction task. Advances in Cognitive Psychology, 2013, 9, 160-72.	0.2	22
59	Single-sweep analysis of the theta frequency band during an auditory oddball task. Psychophysiology, 1998, 35, 116-26.	1.2	22
60	Gender-specific development of auditory information processing in children: An ERP study. Clinical Neurophysiology, 2008, 119, 1992-2003.	0.7	21
61	Covert Reorganization of Implicit Task Representations by Slow Wave Sleep. PLoS ONE, 2009, 4, e5675.	1.1	21
62	The sleeping brain and the neural basis of emotions. Behavioral and Brain Sciences, 2012, 35, 155-156.	0.4	20
63	Is insight a godsend? Explicit knowledge in the serial response-time task has precursors in EEG potentials already at task onset. Neurobiology of Learning and Memory, 2015, 125, 24-35.	1.0	20
64	Increased Performance Variability as a Marker of Implicit/Explicit Interactions in Knowledge Awareness. Frontiers in Psychology, 2015, 6, 1957.	1.1	17
65	Aging-related changes in motor response-related theta activity. International Journal of Psychophysiology, 2020, 153, 95-106.	0.5	17
66	Awareness of knowledge or awareness of processing? Implications for sleep-related memory consolidation. Frontiers in Human Neuroscience, 2009, 3, 40.	1.0	14
67	Developmental gender differences in the synchronization of auditory event-related oscillations. Clinical Neurophysiology, 2011, 122, 907-915.	0.7	14
68	Labile sleep promotes awareness of abstract knowledge in a serial reaction time task. Frontiers in Psychology, 2015, 6, 1354.	1.1	14
69	Brain Oscillations and Predictive Processing. Frontiers in Psychology, 2012, 3, 416.	1.1	13
70	Flanker-Task in Children. Journal of Psychophysiology, 2009, 23, 183-190.	0.3	13
71	Decomposition of Event-Related Brain Potentials into Multicomponents Using Wavelet Transform. Eurasip Journal on Advances in Signal Processing, 1998, 5, 142.	0.2	12
72	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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73	Is there a specific Vivaldi effect on verbal memory functions? Evidence from listening to music in younger and older adults. Psychology of Music, 2019, 47, 325-341.	0.9	11
74	Common and distinct lateralised patterns of neural coupling during focused attention, open monitoring and loving kindness meditation. Scientific Reports, 2020, 10, 7430.	1.6	11
75	Single-sweep analysis of the theta frequency band during an auditory oddball task. Psychophysiology, 1998, 35, 116-126.	1.2	10
76	Comorbidity in the context of neural network properties. Behavioral and Brain Sciences, 2010, 33, 176-177.	0.4	8
77	The Two Arrows of Pain: Mechanisms of Pain Related to Meditation and Mental States of Aversion and Identification. Mindfulness, 0, , 1.	1.6	8
78	Chapter 65 Time-frequency analysis of sensorial brain activity. Supplements To Clinical Neurophysiology, 2002, 54, 443-450.	2.1	7
79	Phase-Locking of Event-Related EEG Oscillations: Analysis and Application. Eurasip Journal on Advances in Signal Processing, 1998, 5, 24.	0.2	7
80	Analysis of functional components of P300 by wavelet transform. , 0, , .		6
81	Attentional and cognitive monitoring brain networks in long-term meditators depend on meditation states and expertise. Scientific Reports, 2021, 11, 4909.	1.6	6
82	Functional Neuroelectric Oscillations Along the Lifespan. Journal of Psychophysiology, 2009, 23, 153-156.	0.3	6
83	Event-Related Oscillations and Cognitive Processes in Children. Journal of Psychophysiology, 2009, 23, 199-207.	0.3	6
84	Event-Related Brain Oscillations in Normal Development. , 2007, , 15-68.		3
85	Sleep effects on slow-brain-potential reflections of associative learning. Biological Psychology, 2011, 86, 219-229.	1.1	3
86	The Primacy of Beauty in Music, Visual Arts and Literature: Not Just a Replication Study in the Greek Language Exploring the Effects of Verbal Fluency, Age and Gender. Psychological Reports, 2022, 125, 2636-2663.	0.9	3
87	Patterns of Implicit Learning Below the Level of Conscious Knowledge. Journal of Psychophysiology, 2010, 24, 91-101.	0.3	3
88	Motivation and P3-wave of event-related potentials. International Journal of Psychophysiology, 1989, 7, 119-120.	0.5	1
89	The position of event-related EEG activity in the local/global theory. Behavioral and Brain Sciences, 2000, 23, 407-407.	0.4	1
90	Methylphenidate (MPH) promotes visual cortical activation in healthy adults in a cued visuomotor task. Journal of Neural Transmission, 2012, 119, 1455-1464.	1.4	1

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91	Brain Response Susceptibility. Springer Series in Synergetics, 1998, , 253-264.	0.2	1
92	Extracellular action potentials of skeletal muscle fibre affected by 4-aminopyridine: a model study. Biological Cybernetics, 1996, 74, 235-241.	0.6	1
93	Book review of Electrophysiological Recording Techniques, edited by Robert P Vertes and Robert W Stackman, Jr. BioMedical Engineering OnLine, 2011, 10, 63.	1.3	0
94	Compressed sensing of astronomical images. , 2011, , .		0
95	Neural Correlates of Aging-Related Differences in Pro-active Control in a Dual Task. Frontiers in Aging Neuroscience, 2021, 13, 682499.	1.7	0
96	Effect of Proactive Mode of Processing on Event-related Oscillatory Brain Responses in Children. International Journal Bioautomation, 2018, 22, 253-262.	0.1	0