

Gert Pfurtscheller

List of Publications by Year in descending order

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175
papers

27,665
citations

12330

69
h-index

7160

153
g-index

181
all docs

181
docs citations

181
times ranked

12614
citing authors

#	ARTICLE	IF	CITATIONS
1	Negative respiratory sinus arrhythmia (nRSA) in the MRI-scanner - a physiologic phenomenon observed during elevated anxiety in healthy persons. <i>Physiology and Behavior</i> , 2022, 245, 113676.	2.1	7
2	Processing of fMRI-related anxiety and information flow between brain and body revealed a preponderance of oscillations at 0.15/0.16ÅHz. <i>Scientific Reports</i> , 2022, 12, .	3.3	6
3	Processing of fMRI-related anxiety and bi-directional information flow between prefrontal cortex and brain stem. <i>Scientific Reports</i> , 2021, 11, 22348.	3.3	10
4	Heart rate variability (HRV): From brain death to resonance breathing at 6 breaths per minute. <i>Clinical Neurophysiology</i> , 2020, 131, 676-693.	1.5	76
5	Verification of a Central Pacemaker in Brain Stem by Phase-Coupling Analysis Between HR Interval- and BOLD-Oscillations in the 0.10â€“0.15 Hz Frequency Band. <i>Frontiers in Neuroscience</i> , 2020, 14, 922.	2.8	18
6	â€œSwitch-Offâ€•of Respiratory Sinus Arrhythmia May Be Associated With the Activation of an Oscillatory Source (Pacemaker) in the Brain Stem. <i>Frontiers in Physiology</i> , 2019, 10, 939.	2.8	14
7	Synchronization of intrinsic 0.1â€“Hz bloodâ€“oxygenâ€“levelâ€“dependent oscillations in amygdala and prefrontal cortex in subjects with increased state anxiety. <i>European Journal of Neuroscience</i> , 2018, 47, 417-426.	2.6	21
8	â€œSwitch-Offâ€•of Respiratory Sinus Arrhythmia Can Occur in a Minority of Subjects During Functional Magnetic Resonance Imaging (fMRI). <i>Frontiers in Physiology</i> , 2018, 9, 1688.	2.8	17
9	MRI-related anxiety in healthy individuals, intrinsic BOLD oscillations at 0.1 Hz in precentral gyrus and insula, and heart rate variability in low frequency bands. <i>PLoS ONE</i> , 2018, 13, e0206675.	2.5	9
10	Heart rate variability and impact of central pacemaker on cardiac activity. <i>Clinical Neurophysiology</i> , 2018, 129, 2188-2190.	1.5	3
11	Brainâ€“heart communication: Evidence for â€œcentral pacemakerâ€•oscillations with a dominant frequency at 0.1 Hz in the cingulum. <i>Clinical Neurophysiology</i> , 2017, 128, 183-193.	1.5	52
12	Distinction between Neural and Vascular BOLD Oscillations and Intertwined Heart Rate Oscillations at 0.1 Hz in the Resting State and during Movement. <i>PLoS ONE</i> , 2017, 12, e0168097.	2.5	19
13	Initiation of voluntary movements at free will and ongoing 0.1-Hz BOLD oscillations in the insulaÃ¢â€, -â€“a pilot study. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 93.	2.1	4
14	Entrainment of spontaneous cerebral hemodynamic oscillations to behavioral responses. <i>Neuroscience Letters</i> , 2014, 566, 93-97.	2.1	3
15	Thought-based interaction with the physical world. <i>Trends in Cognitive Sciences</i> , 2013, 17, 490-492.	7.8	11
16	Thinking Penguin: Multimodal Brainâ€“Computer Interface Control of a VR Game. <i>IEEE Transactions on Games</i> , 2013, 5, 117-128.	1.4	74
17	Brisk heart rate and EEG changes during execution and withholding of cue-paced foot motor imagery. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 379.	2.0	28
18	BCIs That Use Sensorimotor Rhythms. , 2012, , 228-240.		16

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19	Combining BCI with Virtual Reality: Towards New Applications and Improved BCI. Biological and Medical Physics Series, 2012, , 197-220.	0.4	69
20	Does conscious intention to perform a motor act depend on slow prefrontal (de)oxyhemoglobin oscillations in the resting brain?. Neuroscience Letters, 2012, 508, 89-94.	2.1	23
21	Cue-induced beta rebound during withholding of overt and covert foot movement. Clinical Neurophysiology, 2012, 123, 1182-1190.	1.5	85
22	Review of the BCI Competition IV. Frontiers in Neuroscience, 2012, 6, 55.	2.8	686
23	Coupling between Intrinsic Prefrontal HbO2 and Central EEG Beta Power Oscillations in the Resting Brain. PLoS ONE, 2012, 7, e43640.	2.5	53
24	Cardiovascular responses after brisk finger movement and their dependency on the "eigenfrequency" of the baroreflex loop. Neuroscience Letters, 2011, 490, 31-35.	2.1	6
25	Brain-Computer Interface Systems Used for Virtual Reality Control. , 2011, , .		11
26	About the Stability of Phase Shifts Between Slow Oscillations Around 0.1 Hz in Cardiovascular and Cerebral Systems. IEEE Transactions on Biomedical Engineering, 2011, 58, 2064-2071.	4.2	16
27	An SSVEP BCI to Control a Hand Orthosis for Persons With Tetraplegia. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 1-5.	4.9	304
28	Single-trial classification of antagonistic oxyhemoglobin responses during mental arithmetic. Medical and Biological Engineering and Computing, 2011, 49, 979-984.	2.8	91
29	EEG-based brain-computer communication. , 2010, , 203-212.		3
30	Electroencephalographic characteristics during motor imagery. , 2010, , 65-82.		16
31	Self-Paced Operation of an SSVEP-Based Orthosis With and Without an Imagery-Based "Brain Switch": A Feasibility Study Towards a Hybrid BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 409-414.	4.9	848
32	Fast set-up asynchronous brain-switch based on detection of foot motor imagery in 1-channel EEG. Medical and Biological Engineering and Computing, 2010, 48, 229-233.	2.8	101
33	Nonstationary Brain Source Separation for Multiclass Motor Imagery. IEEE Transactions on Biomedical Engineering, 2010, 57, 469-478.	4.2	91
34	Improved signal processing approaches in an offline simulation of a hybrid brain-computer interface. Journal of Neuroscience Methods, 2010, 188, 165-173.	2.5	105
35	Analysis of sensorimotor rhythms for the implementation of a brain switch for healthy subjects. Biomedical Signal Processing and Control, 2010, 5, 15-20.	5.7	63
36	Temporal coding of brain patterns for direct limb control in humans. Frontiers in Neuroscience, 2010, 4, .	2.8	48

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37	P300 Chinese input system based on Bayesian LDA. Biomedizinische Technik, 2010, 55, 5-18.	0.8	52
38	Asynchronous steady-state visual evoked potential based BCI control of a 2-DoF artificial upper limb. Biomedizinische Technik, 2010, 55, 367-374.	0.8	16
39	Gaze-directed ubiquitous interaction using a Brain-Computer Interface. , 2010, , .		3
40	Human-Computer Interface Issues in Controlling Virtual Reality With Brain-Computer Interface. Human-Computer Interaction, 2010, 25, 67-94.	4.4	31
41	An Application Framework for Controlling an Avatar in a Desktop-Based Virtual Environment via a Software SSVEP Brain-Computer Interface. Presence: Teleoperators and Virtual Environments, 2010, 19, 25-34.	0.6	69
42	Does conscious intention to perform a motor act depend on slow cardiovascular rhythms?. Neuroscience Letters, 2010, 468, 46-50.	2.1	18
43	Focal frontal (de)oxyhemoglobin responses during simple arithmetic. International Journal of Psychophysiology, 2010, 76, 186-192.	1.0	98
44	The hybrid BCI. Frontiers in Neuroscience, 2010, 4, 30.	2.8	431
45	A new P300 stimulus presentation pattern for EEG-based spelling systems. Biomedizinische Technik, 2010, 55, 203-210.	0.8	55
46	Design Method of Morphological Structural Function for Pattern Recognition of EEG Signals During Motor Imagery and Cognition. , 2009, , .		1
47	Neurofeedback Training for BCI Control. The Frontiers Collection, 2009, , 65-78.	0.2	45
48	Chapter 9 Flexibility and Practicality. International Review of Neurobiology, 2009, 86, 119-131.	2.0	21
49	Dimensionality Reduction and Channel Selection of Motor Imagery Electroencephalographic Data. Computational Intelligence and Neuroscience, 2009, 2009, 1-8.	1.7	49
50	Brain-Computer Interfaces: A Gentle Introduction. The Frontiers Collection, 2009, , 1-27.	0.2	131
51	Is there "neural efficiency" during the processing of visuo-spatial information in male humans? An EEG study. Behavioural Brain Research, 2009, 205, 468-474.	2.2	18
52	Motor imagery and action observation: Modulation of sensorimotor brain rhythms during mental control of a brain-computer interface. Clinical Neurophysiology, 2009, 120, 239-247.	1.5	354
53	Investigation of cue-based vertical and horizontal eye movements with electroencephalographic and eye-tracking data. Clinical Neurophysiology, 2009, 120, 1988-1993.	1.5	10
54	Non-invasive control of neuroprostheses for the upper extremity: Temporal coding of brain patterns. , 2009, 2009, 3353-6.		8

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55	Dynamics of Sensorimotor Oscillations in a Motor Task. The Frontiers Collection, 2009, , 47-64.	0.2	12
56	The Graz Brain-Computer Interface. The Frontiers Collection, 2009, , 79-96.	0.2	11
57	Non Invasive BCIs for Neuroprostheses Control of the Paralysed Hand. The Frontiers Collection, 2009, , 171-184.	0.2	0
58	Pattern recognition of EEG signals during motor imagery by using robust method. Proceedings of the ISICIE International Symposium on Stochastic Systems Theory and Its Applications, 2009, 2009, 237-242.	0.2	0
59	Brain motor system function in a patient with complete spinal cord injury following extensive brain-computer interface training. Experimental Brain Research, 2008, 190, 215-223.	1.5	95
60	Comparison of DFT and lock-in amplifier features and search for optimal electrode positions in SSVEP-based BCI. Journal of Neuroscience Methods, 2008, 168, 174-181.	2.5	57
61	Overt foot movement detection in one single Laplacian EEG derivation. Journal of Neuroscience Methods, 2008, 175, 148-153.	2.5	47
62	Control of an Electrical Prosthesis With an SSVEP-Based BCI. IEEE Transactions on Biomedical Engineering, 2008, 55, 361-364.	4.2	507
63	Brain-Computer Interfacing for Intelligent Systems. IEEE Intelligent Systems, 2008, 23, 72-79.	4.0	218
64	Rehabilitation with Brain-Computer Interface Systems. Computer, 2008, 41, 58-65.	1.1	167
65	Correction to "Brain - computer communication: Motivation, aim, and impact of exploring a virtual apartment". IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 119-119.	4.9	3
66	Toward Self-Paced Brain-Computer Communication: Navigation Through Virtual Worlds. IEEE Transactions on Biomedical Engineering, 2008, 55, 675-682.	4.2	186
67	Correlation between EEG burst-to-burst intervals and HR acceleration in preterm infants. Neuroscience Letters, 2008, 437, 103-106.	2.1	18
68	Graz Brain-Computer Interface: Control of neuroprostheses for the upper extremity. , 2008, , .		0
69	Development, set-up and first results for a one-channel near-infrared spectroscopy system / Entwicklung, Aufbau und vorläufige Ergebnisse eines Einkanal- Nahinfrarot-Spektroskopie-Systems. Biomedizinische Technik, 2008, 53, 36-43.	0.8	94
70	EEG signal analysis during miss operation in BCI system. , 2008, , .		0
71	Navigating Virtual Reality by Thought: What Is It Like?. Presence: Teleoperators and Virtual Environments, 2007, 16, 100-110.	0.6	59
72	Pattern recognition of EEG signals during motor imagery -based on directed information analysis-. , 2007, , .		0

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73	Self-Paced (Asynchronous) BCI Control of a Wheelchair in Virtual Environments: A Case Study with a Tetraplegic. <i>Computational Intelligence and Neuroscience</i> , 2007, 2007, 1-8.	1.7	353
74	Viewing Moving Objects in Virtual Reality Can Change the Dynamics of Sensorimotor EEG Rhythms. Presence: Teleoperators and Virtual Environments, 2007, 16, 111-118.	0.6	38
75	Event-related EEG theta and alpha band oscillatory responses during language translation. <i>Brain Research Bulletin</i> , 2007, 72, 57-65.	3.0	57
76	Understanding and Realizing Presence in the Presencia Project. <i>IEEE Computer Graphics and Applications</i> , 2007, 27, 90-93.	1.2	27
77	The Self-Paced Graz Brain-Computer Interface: Methods and Applications. <i>Computational Intelligence and Neuroscience</i> , 2007, 2007, 1-9.	1.7	74
78	Spatial filtering and selection of optimized components in four class motor imagery EEG data using independent components analysis. <i>Pattern Recognition Letters</i> , 2007, 28, 957-964.	4.2	209
79	Phasic heart rate changes during word translation of different difficulties. <i>Psychophysiology</i> , 2007, 44, 807-813.	2.4	11
80	Event-related beta EEG-changes during passive and attempted foot movements in paraplegic patients. <i>Brain Research</i> , 2007, 1137, 84-91.	2.2	162
81	Brain-Computer Communication: Motivation, Aim, and Impact of Exploring a Virtual Apartment. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2007, 15, 473-482.	4.9	393
82	Study of discriminant analysis applied to motor imagery bipolar data. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 61-68.	2.8	35
83	Quantification and visualization of event-related changes in oscillatory brain activity in the time-frequency domain. <i>Progress in Brain Research</i> , 2006, 159, 79-97.	1.4	109
84	Online Control of a Brain-Computer Interface Using Phase Synchronization. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 2501-2506.	4.2	138
85	ERD/ERS patterns reflecting sensorimotor activation and deactivation. <i>Progress in Brain Research</i> , 2006, 159, 211-222.	1.4	627
86	Future prospects of ERD/ERS in the context of brain-computer interface (BCI) developments. <i>Progress in Brain Research</i> , 2006, 159, 433-437.	1.4	165
87	Post-movement beta synchronization after kinesthetic illusion, active and passive movements. <i>International Journal of Psychophysiology</i> , 2006, 62, 321-327.	1.0	37
88	Walking from thought. <i>Brain Research</i> , 2006, 1071, 145-152.	2.2	208
89	A Comparison of Common Spatial Patterns With Complex Band Power Features in a Four-Class BCI Experiment. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 642-651.	4.2	88
90	Steady-state somatosensory evoked potentials: suitable brain signals for brain-computer interfaces?. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2006, 14, 30-37.	4.9	289

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91	The BCI competition III: validating alternative approaches to actual BCI problems. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 153-159.	4.9	832
92	Analysis of Physiological Responses to a Social Situation in an Immersive Virtual Environment. Presence: Teleoperators and Virtual Environments, 2006, 15, 553-569.	0.6	96
93	The cortical activation model (CAM). Progress in Brain Research, 2006, 159, 19-27.	1.4	48
94	Brain-computer interfaces for control of neuroprostheses: from synchronous to asynchronous mode of operation / Brain-Computer Interfaces zur Steuerung von Neuroprothesen: von der synchronen zur asynchronen Funktionsweise. Biomedizinische Technik, 2006, 51, 57-63.	0.8	77
95	Walking by Thinking: The Brainwaves Are Crucial, Not the Muscles!. Presence: Teleoperators and Virtual Environments, 2006, 15, 500-514.	0.6	78
96	Pattern Recognition of EEG Signals During Motor Imagery. , 2006, , .		2
97	Motor imagery and EEG-based control of spelling devices and neuroprostheses. Progress in Brain Research, 2006, 159, 393-409.	1.4	163
98	Pattern Recognition of EEG Signals during Right and Left Motor Imagery – Error Detection –. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2006, 2006, 173-178.	0.2	0
99	EEG-Based Asynchronous BCI Controls Functional Electrical Stimulation in a Tetraplegic Patient. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	85
100	Semantic memory retrieval: cortical couplings in object recognition in the N400 window. European Journal of Neuroscience, 2005, 21, 1139-1143.	2.6	20
101	Synchronous occurrence of EEG bursts and heart rate acceleration in preterm infants. Brain and Development, 2005, 27, 558-563.	1.1	13
102	Steady-state visual evoked potential (SSVEP)-based communication: impact of harmonic frequency components. Journal of Neural Engineering, 2005, 2, 123-130.	3.5	441
103	Characterization of four-class motor imagery EEG data for the BCI-competition 2005. Journal of Neural Engineering, 2005, 2, L14-L22.	3.5	393
104	Phase relationships between different subdural electrode recordings in man. Neuroscience Letters, 2005, 375, 69-74.	2.1	29
105	EEG-based neuroprosthesis control: A step towards clinical practice. Neuroscience Letters, 2005, 382, 169-174.	2.1	522
106	Relationship between slow-wave EEG bursts and heart rate changes in preterm infants. Neuroscience Letters, 2005, 385, 126-130.	2.1	13
107	Imagery of motor actions: Differential effects of kinesthetic and visual motor mode of imagery in single-trial EEG. Cognitive Brain Research, 2005, 25, 668-677.	3.0	581
108	Pattern Recognition of EEG Signals during Right and Left Motor Imagery based on Quasi-AR Model. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2005, 2005, 153-158.	0.2	0

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109	Restless Legs Syndrome: Changes of Induced Electroencephalographic Beta Oscillationsâ€”an ERD/ERS Study. <i>Sleep</i> , 2004, 27, 147-150.	1.1	19
110	Walking through a virtual city by thought. , 2004, 2004, 4503-6.		37
111	Toward a Direct Brain Interface Based on Human Subdural Recordings and Wavelet-Packet Analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 954-962.	4.2	102
112	The BCI Competition 2003: Progress and Perspectives in Detection and Discrimination of EEG Single Trials. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 1044-1051.	4.2	535
113	An Asynchronously Controlled EEG-Based Virtual Keyboard: Improvement of the Spelling Rate. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 979-984.	4.2	277
114	Alpha power dependent light stimulation: dynamics of event-related (de)synchronization in human electroencephalogram. <i>Cognitive Brain Research</i> , 2004, 20, 256-260.	3.0	36
115	Conversion of EEG activity into cursor movement by a brain-computer interface (BCI). <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2004, 12, 331-338.	4.9	336
116	Phase coupling between different motor areas during tongue-movement imagery. <i>Neuroscience Letters</i> , 2004, 369, 50-54.	2.1	33
117	Continuous EEG classification during motor imagery-simulation of an asynchronous BCI. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2004, 12, 258-265.	4.9	215
118	Lexical memory search during N400: cortical couplings in auditory comprehension. <i>NeuroReport</i> , 2004, 15, 1209-1213.	1.2	24
119	Human Brainâ€”Computer Interface. <i>Frontiers in Neuroscience</i> , 2004, , .	0.0	21
120	Movement and ERD/ERS. , 2003, , 191-206.		11
121	â€”Thoughtâ€”â€” control of functional electrical stimulation to restore hand grasp in a patient with tetraplegia. <i>Neuroscience Letters</i> , 2003, 351, 33-36.	2.1	578
122	Implementation of a telemonitoring system for the control of an EEG-based brain-computer interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2003, 11, 54-59.	4.9	35
123	Pattern recognition of EEG signals during right and left motor imagery. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003, 36, 139-144.	0.4	2
124	Brainâ€”computer interfaces for communication and control. <i>Clinical Neurophysiology</i> , 2002, 113, 767-791.	1.5	6,747
125	Computational model of thalamo-cortical networks: dynamical control of alpha rhythms in relation to focal attention. <i>International Journal of Psychophysiology</i> , 2001, 43, 25-40.	1.0	231
126	Mechanical Stimulation of the Fingertip Can Induce Bursts of β^2 Oscillations in Sensorimotor Areas. <i>Journal of Clinical Neurophysiology</i> , 2001, 18, 559-564.	1.7	52

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127	Do brain oscillations of different frequencies indicate interaction between cortical areas in humans?. Neuroscience Letters, 2000, 286, 66-68.	2.1	70
128	Classification of movement-related EEG in a memorized delay task experiment. Clinical Neurophysiology, 2000, 111, 1353-1365.	1.5	30
129	EEG-based communication: presence of an error potential. Clinical Neurophysiology, 2000, 111, 2138-2144.	1.5	219
130	Visually guided motor imagery activates sensorimotor areas in humans. Neuroscience Letters, 1999, 269, 153-156.	2.1	68
131	Lack of bilateral coherence of post-movement central beta oscillations in the human electroencephalogram. Neuroscience Letters, 1999, 273, 89-92.	2.1	37
132	Human Movement-Related Potentials vs Desynchronization of EEG Alpha Rhythm: A High-Resolution EEG Study. NeuroImage, 1999, 10, 658-665.	4.2	313
133	Designing optimal spatial filters for single-trial EEG classification in a movement task. Clinical Neurophysiology, 1999, 110, 787-798.	1.5	723
134	Enhancement of Left-Right Sensorimotor EEG Differences During Feedback-Regulated Motor Imagery. Journal of Clinical Neurophysiology, 1999, 16, 373-382.	1.7	247
135	Functional Imaging of Postmovement Beta Event-Related Synchronization. Journal of Clinical Neurophysiology, 1999, 16, 383-390.	1.7	17
136	Event-Related Changes of Band Power and Coherence: Methodology and Interpretation. Journal of Clinical Neurophysiology, 1999, 16, 512.	1.7	212
137	Mining multi-channel EEG for its information content: an ANN-based method for a brain-computer interface. Neural Networks, 1998, 11, 1429-1433.	5.9	43
138	Cardiac response induced by voluntary self-paced finger movement. International Journal of Psychophysiology, 1998, 28, 273-283.	1.0	29
139	Event-related beta synchronization after wrist, finger and thumb movement. Electroencephalography and Clinical Neurophysiology - Electromyography and Motor Control, 1998, 109, 154-160.	1.4	172
140	Postmovement Beta Synchronization in Patients With Parkinson's Disease. Journal of Clinical Neurophysiology, 1998, 15, 243-250.	1.7	66
141	The effects of external load on movement-related changes of the sensorimotor EEG rhythms. Electroencephalography and Clinical Neurophysiology, 1997, 102, 495-504.	0.3	80
142	Motor imagery activates primary sensorimotor area in humans. Neuroscience Letters, 1997, 239, 65-68.	2.1	876
143	On the existence of different alpha band rhythms in the hand area of man. Neuroscience Letters, 1997, 222, 103-106.	2.1	84
144	Post-movement EEG synchronization studied with different high resolution methods. Brain Topography, 1997, 10, 103-113.	1.8	11

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145	Effects of Handedness on Movement-Related Changes of Central Beta Rhythms. Journal of Clinical Neurophysiology, 1997, 14, 419-428.	1.7	28
146	Timing of EEG-Based Cursor Control. Journal of Clinical Neurophysiology, 1997, 14, 529-538.	1.7	51
147	Human cortical 40 Hz rhythm is closely related to EMG rhythmicity. Neuroscience Letters, 1996, 213, 75-78.	2.1	153
148	Post-movement synchronization of beta rhythms in the EEG over the cortical foot area in man. Neuroscience Letters, 1996, 216, 17-20.	2.1	119
149	Event-related coherence as a tool for studying dynamic interaction of brain regions. Electroencephalography and Clinical Neurophysiology, 1996, 98, 144-148.	0.3	240
150	The effects of handedness and type of movement on the contralateral preponderance of β -rhythm desynchronization. Electroencephalography and Clinical Neurophysiology, 1996, 99, 174-182.	0.3	78
151	Event-related desynchronization of central beta-rhythms during brisk and slow self-paced finger movements of dominant and nondominant hand. Cognitive Brain Research, 1996, 4, 171-183.	3.0	225
152	Mu-rhythm changes in brisk and slow self-paced finger movements. NeuroReport, 1996, 7, 1161-1164.	1.2	65
153	Sleep classification in infants by decision tree-based neural networks. Artificial Intelligence in Medicine, 1996, 8, 387-401.	6.5	22
154	Brainstem Auditory Evoked Potentials in Respiratory Insufficiency Following Encephalitis. International Journal of Neuroscience, 1996, 84, 35-44.	1.6	12
155	Intelligence and spatiotemporal patterns of event-related desynchronization (ERD). Intelligence, 1995, 20, 249-266.	3.0	140
156	Desynchronization and recovery of β rhythms during brisk and slow self-paced finger movements in man. Neuroscience Letters, 1995, 196, 21-24.	2.1	150
157	Dynamic spectral analysis of event-related EEG data. Electroencephalography and Clinical Neurophysiology, 1995, 95, 393-396.	0.3	77
158	AI-based approach to automatic sleep classification. Biological Cybernetics, 1994, 70, 443-448.	1.3	34
159	Source localization using eventrelated desynchronization (ERD) within the alpha band. Brain Topography, 1994, 6, 269-275.	1.8	61
160	Event-related synchronization of mu rhythm in the EEG over the cortical hand area in man. Neuroscience Letters, 1994, 174, 93-96.	2.1	340
161	Differentiation between finger, toe and tongue movement in man based on 40 Hz EEG. Electroencephalography and Clinical Neurophysiology, 1994, 90, 456-460.	0.3	182
162	Event-Related Desynchronization (ERD) and 40-Hz Oscillations in a Simple Movement Task. , 1994, , 357-366.		1

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163	AI-based approach to automatic sleep classification. <i>Biological Cybernetics</i> , 1994, 70, 443-448.	1.3	2
164	Brain-Computer Interfaceâ€”a new communication device for handicapped persons. <i>Journal of Microcomputer Applications</i> , 1993, 16, 293-299.	0.1	341
165	40-Hz oscillations during motor behavior in man. <i>Neuroscience Letters</i> , 1993, 164, 179-182.	2.1	148
166	LVQ-Based On-line EEG Classification. , 1993, , 161-166.		1
167	Sleep classification with a combination of symbolic learning and learning vector quantization. , 1992, , .		3
168	A new approach to a brain-computer-interface (BCI) based on Learning Vector Quantization (LVQ3). , 1992, , .		3
169	Sleep classification in infants by a Learning Vector Quantizer (LVQ3). , 1992, , .		0
170	Event-Related Synchronization and Desynchronization of Alpha and Beta Waves in a Cognitive Task. , 1992, , 117-128.		33
171	Hilbert-transform based predictions of hand movements from EEG measurements. , 1992, , .		10
172	Simultaneous EEG 10 Hz desynchronization and 40 Hz synchronization during finger movements. <i>NeuroReport</i> , 1992, 3, 1057-1060.	1.2	198
173	Ear dominance and laterality of cortical activation identified by event-related desynchronization mapping. <i>International Journal of Psychophysiology</i> , 1990, 8, 283-295.	1.0	9
174	Lateral eye movements as an indication of hemispheric preference: an EEG validation study. <i>International Journal of Psychophysiology</i> , 1988, 6, 177-184.	1.0	11
175	Penumbra around chronic cerebral infarction?. <i>Neurological Research</i> , 1988, 10, 246-251.	1.3	7