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	Brainâ€“computer interfaces for communication and control. Clinical Neurophysiology, 2002, 113, 767-791.	1.5	6,747
2	Motor imagery activates primary sensorimotor area in humans. Neuroscience Letters, 1997, 239, 65-68.	2.1	876
3	Self-Paced Operation of an SSVEP-Based Orthosis With and Without an Imagery-Based â€œBrain Switch:â€• A Feasibility Study Towards a Hybrid BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 409-414.	4.9	848
4	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
5	Designing optimal spatial filters for single-trial EEG classification in a movement task. Clinical Neurophysiology, 1999, 110, 787-798.	1.5	723
6	Review of the BCI Competition IV. Frontiers in Neuroscience, 2012, 6, 55.	2.8	686
7	ERD/ERS patterns reflecting sensorimotor activation and deactivation. Progress in Brain Research, 2006, 159, 211-222.	1.4	627
8	Imagery of motor actions: Differential effects of kinesthetic and visualâ€“motor mode of imagery in single-trial EEG. Cognitive Brain Research, 2005, 25, 668-677.	3.0	581
9	â€˜Thoughtâ€™ â€“ control of functional electrical stimulation to restore hand grasp in a patient with tetraplegia. Neuroscience Letters, 2003, 351, 33-36.	2.1	578
10	The BCI Competition 2003: Progress and Perspectives in Detection and Discrimination of EEG Single Trials. IEEE Transactions on Biomedical Engineering, 2004, 51, 1044-1051.	4.2	535
11	EEG-based neuroprosthesis control: A step towards clinical practice. Neuroscience Letters, 2005, 382, 169-174.	2.1	522
12	Control of an Electrical Prosthesis With an SSVEP-Based BCI. IEEE Transactions on Biomedical Engineering, 2008, 55, 361-364.	4.2	507
13	Steady-state visual evoked potential (SSVEP)-based communication: impact of harmonic frequency components. Journal of Neural Engineering, 2005, 2, 123-130.	3.5	441
14	The hybrid BCI. Frontiers in Neuroscience, 2010, 4, 30.	2.8	431
15	Characterization of four-class motor imagery EEG data for the BCI-competition 2005. Journal of Neural Engineering, 2005, 2, L14-L22.	3.5	393
16	Brainâ€“Computer Communication: Motivation, Aim, and Impact of Exploring a Virtual Apartment. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 473-482.	4.9	393
17	Motor imagery and action observation: Modulation of sensorimotor brain rhythms during mental control of a brainâ€“computer interface. Clinical Neurophysiology, 2009, 120, 239-247.	1.5	354
18	Self-Paced (Asynchronous) BCI Control of a Wheelchair in Virtual Environments: A Case Study with a Tetraplegic. Computational Intelligence and Neuroscience, 2007, 2007, 1-8.	1.7	353

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19	Brain-Computer Interfaceâ€"a new communication device for handicapped persons. Journal of Microcomputer Applications, 1993, 16, 293-299.	0.1	341
20	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
21	Conversion of EEG activity into cursor movement by a brain-computer interface (BCI). IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2004, 12, 331-338.	4.9	336
22	Human Movement-Related Potentials vs Desynchronization of EEG Alpha Rhythm: A High-Resolution EEG Study. NeuroImage, 1999, 10, 658-665.	4.2	313
23	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
24	Steady-state somatosensory evoked potentials: suitable brain signals for brain-computer interfaces?. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 30-37.	4.9	289
25	An Asynchronously Controlled EEG-Based Virtual Keyboard: Improvement of the Spelling Rate. IEEE Transactions on Biomedical Engineering, 2004, 51, 979-984.	4.2	277
26	Enhancement of Left-Right Sensorimotor EEG Differences During Feedback-Regulated Motor Imagery. Journal of Clinical Neurophysiology, 1999, 16, 373-382.	1.7	247
27	Event-related coherence as a tool for studying dynamic interaction of brain regions. Electroencephalography and Clinical Neurophysiology, 1996, 98, 144-148.	0.3	240
28	Computational model of thalamo-cortical networks: dynamical control of alpha rhythms in relation to focal attention. International Journal of Psychophysiology, 2001, 43, 25-40.	1.0	231
29	Event-related desynchronisation 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
30	EEG-based communication: presence of an error potential. Clinical Neurophysiology, 2000, 111, 2138-2144.	1.5	219
31	Brain-Computer Interfacing for Intelligent Systems. IEEE Intelligent Systems, 2008, 23, 72-79.	4.0	218
32	Continuous EEG classification during motor imagery-simulation of an asynchronous BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2004, 12, 258-265.	4.9	215
33	Event-Related Changes of Band Power and Coherence: Methodology and Interpretation. Journal of Clinical Neurophysiology, 1999, 16, 512.	1.7	212
34	Spatial filtering and selection of optimized components in four class motor imagery EEG data using independent components analysis. Pattern Recognition Letters, 2007, 28, 957-964.	4.2	209
35	Walking from thought. Brain Research, 2006, 1071, 145-152.	2.2	208
36	Simultaneous EEG 10 Hz desynchronization and 40 Hz synchronization during finger movements. NeuroReport, 1992, 3, 1057-1060.	1.2	198

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37	Toward Self-Paced Brainâ€“Computer Communication: Navigation Through Virtual Worlds. IEEE Transactions on Biomedical Engineering, 2008, 55, 675-682.	4.2	186
38	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
39	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
40	Rehabilitation with Brain-Computer Interface Systems. Computer, 2008, 41, 58-65.	1.1	167
41	Future prospects of ERD/ERS in the context of brainâ€“computer interface (BCI) developments. Progress in Brain Research, 2006, 159, 433-437.	1.4	165
42	Motor imagery and EEG-based control of spelling devices and neuroprostheses. Progress in Brain Research, 2006, 159, 393-409.	1.4	163
43	Event-related beta EEG-changes during passive and attempted foot movements in paraplegic patients. Brain Research, 2007, 1137, 84-91.	2.2	162
44	Human cortical 40 Hz rhythm is closely related to EMG rhythmicity. Neuroscience Letters, 1996, 213, 75-78.	2.1	153
45	Desynchronization and recovery of Î² rhythms during brisk and slow self-paced finger movements in man. Neuroscience Letters, 1995, 196, 21-24.	2.1	150
46	40-Hz oscillations during motor behavior in man. Neuroscience Letters, 1993, 164, 179-182.	2.1	148
47	Intelligence and spatiotemporal patterns of event-related desynchronization (ERD). Intelligence, 1995, 20, 249-266.	3.0	140
48	Online Control of a Brain-Computer Interface Using Phase Synchronization. IEEE Transactions on Biomedical Engineering, 2006, 53, 2501-2506.	4.2	138
49	Brainâ€“Computer Interfaces: A Gentle Introduction. The Frontiers Collection, 2009, , 1-27.	0.2	131
50	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
51	Quantification and visualization of event-related changes in oscillatory brain activity in the timeâ€“frequency domain. Progress in Brain Research, 2006, 159, 79-97.	1.4	109
52	Improved signal processing approaches in an offline simulation of a hybrid brainâ€“computer interface. Journal of Neuroscience Methods, 2010, 188, 165-173.	2.5	105
53	Toward a Direct Brain Interface Based on Human Subdural Recordings and Wavelet-Packet Analysis. IEEE Transactions on Biomedical Engineering, 2004, 51, 954-962.	4.2	102
54	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

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55	Focal frontal (de)oxyhemoglobin responses during simple arithmetic. International Journal of Psychophysiology, 2010, 76, 186-192.	1.0	98
56	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
57	Brain motor system function in a patient with complete spinal cord injury following extensive brainâ€“computer interface training. Experimental Brain Research, 2008, 190, 215-223.	1.5	95
58	Development, set-up and first results for a one-channel near-infrared spectroscopy system / Entwicklung, Aufbau und vorlÃufige Ergebnisse eines Einkanal- Nahinfrarot-Spektroskopie-Systems. Biomedizinische Technik, 2008, 53, 36-43.	0.8	94
59	Nonstationary Brain Source Separation for Multiclass Motor Imagery. IEEE Transactions on Biomedical Engineering, 2010, 57, 469-478.	4.2	91
60	Single-trial classification of antagonistic oxyhemoglobin responses during mental arithmetic. Medical and Biological Engineering and Computing, 2011, 49, 979-984.	2.8	91
61	A Comparison of Common Spatial Patterns With Complex Band Power Features in a Four-Class BCI Experiment. IEEE Transactions on Biomedical Engineering, 2006, 53, 642-651.	4.2	88
62	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
63	Cue-induced beta rebound during withholding of overt and covert foot movement. Clinical Neurophysiology, 2012, 123, 1182-1190.	1.5	85
64	On the existence of different alpha band rhythms in the hand area of man. Neuroscience Letters, 1997, 222, 103-106.	2.1	84
65	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
66	The effects of handedness and type of movement on the contralateral preponderance of Î¼-rhythm desynchronisation. Electroencephalography and Clinical Neurophysiology, 1996, 99, 174-182.	0.3	78
67	Walking by Thinking: The Brainwaves Are Crucial, Not the Muscles!. Presence: Teleoperators and Virtual Environments, 2006, 15, 500-514.	0.6	78
68	Dynamic spectral analysis of event-related EEG data. Electroencephalography and Clinical Neurophysiology, 1995, 95, 393-396.	0.3	77
69	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
70	Heart rate variability (HRV): From brain death to resonance breathing at 6 breaths per minute. Clinical Neurophysiology, 2020, 131, 676-693.	1.5	76
71	The Self-Paced Graz Brain-Computer Interface: Methods and Applications. Computational Intelligence and Neuroscience, 2007, 2007, 1-9.	1.7	74
72	Thinking Penguin: Multimodal Brainâ€“Computer Interface Control of a VR Game. IEEE Transactions on Games, 2013, 5, 117-128.	1.4	74

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73	Do brain oscillations of different frequencies indicate interaction between cortical areas in humans?. Neuroscience Letters, 2000, 286, 66-68.	2.1	70
74	An Application Framework for Controlling an Avatar in a Desktop-Based Virtual Environment via a Software SSVEP Brainâ€“Computer Interface. Presence: Teleoperators and Virtual Environments, 2010, 19, 25-34.	0.6	69
75	Combining BCI with Virtual Reality: Towards New Applications and Improved BCI. Biological and Medical Physics Series, 2012, , 197-220.	0.4	69
76	Visually guided motor imagery activates sensorimotor areas in humans. Neuroscience Letters, 1999, 269, 153-156.	2.1	68
77	Postmovement Beta Synchronization in Patients With Parkinson's Disease. Journal of Clinical Neurophysiology, 1998, 15, 243-250.	1.7	66
78	Mu-rhythm changes in brisk and slow self-paced finger movements. NeuroReport, 1996, 7, 1161-1164.	1.2	65
79	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
80	Source localization using eventrelated desynchronization (ERD) within the alpha band. Brain Topography, 1994, 6, 269-275.	1.8	61
81	Navigating Virtual Reality by Thought: What Is It Like?. Presence: Teleoperators and Virtual Environments, 2007, 16, 100-110.	0.6	59
82	Event-related EEG theta and alpha band oscillatory responses during language translation. Brain Research Bulletin, 2007, 72, 57-65.	3.0	57
83	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
84	A new P300 stimulus presentation pattern for EEG-based spelling systems. Biomedizinische Technik, 2010, 55, 203-210.	0.8	55
85	Coupling between Intrinsic Prefrontal HbO2 and Central EEG Beta Power Oscillations in the Resting Brain. PLoS ONE, 2012, 7, e43640.	2.5	53
86	Mechanical Stimulation of the Fingertip Can Induce Bursts of Î² Oscillations in Sensorimotor Areas. Journal of Clinical Neurophysiology, 2001, 18, 559-564.	1.7	52
87	P300 Chinese input system based on Bayesian LDA. Biomedizinische Technik, 2010, 55, 5-18.	0.8	52
88	Brainâ€“heart communication: Evidence for â€œcentral pacemakerâ€•oscillations with a dominant frequency at 0.1 Hz in the cingulum. Clinical Neurophysiology, 2017, 128, 183-193.	1.5	52
89	Timing of EEG-Based Cursor Control. Journal of Clinical Neurophysiology, 1997, 14, 529-538.	1.7	51
90	Dimensionality Reduction and Channel Selection of Motor Imagery Electroencephalographic Data. Computational Intelligence and Neuroscience, 2009, 2009, 1-8.	1.7	49

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91	The cortical activation model (CAM). Progress in Brain Research, 2006, 159, 19-27.	1.4	48
92	Temporal coding of brain patterns for direct limb control in humans. Frontiers in Neuroscience, 2010, 4, .	2.8	48
93	Overt foot movement detection in one single Laplacian EEG derivation. Journal of Neuroscience Methods, 2008, 175, 148-153.	2.5	47
94	Neurofeedback Training for BCI Control. The Frontiers Collection, 2009, , 65-78.	0.2	45
95	Mining multi-channel EEG for its information content: an ANN-based method for a brainâ€“computer interface. Neural Networks, 1998, 11, 1429-1433.	5.9	43
96	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
97	Lack of bilateral coherence of post-movement central beta oscillations in the human electroencephalogram. Neuroscience Letters, 1999, 273, 89-92.	2.1	37
98	Walking through a virtual city by thought. , 2004, 2004, 4503-6.		37
99	Post-movement beta synchronization after kinesthetic illusion, active and passive movements. International Journal of Psychophysiology, 2006, 62, 321-327.	1.0	37
100	Alpha power dependent light stimulation: dynamics of event-related (de)synchronization in human electroencephalogram. Cognitive Brain Research, 2004, 20, 256-260.	3.0	36
101	Implementation of a telemonitoring system for the control of an EEG-based brain-computer interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2003, 11, 54-59.	4.9	35
102	Study of discriminant analysis applied to motor imagery bipolar data. Medical and Biological Engineering and Computing, 2007, 45, 61-68.	2.8	35
103	AI-based approach to automatic sleep classification. Biological Cybernetics, 1994, 70, 443-448.	1.3	34
104	Event-Related Synchronization and Desynchronization of Alpha and Beta Waves in a Cognitive Task. , 1992, , 117-128.		33
105	Phase coupling between different motor areas during tongue-movement imagery. Neuroscience Letters, 2004, 369, 50-54.	2.1	33
106	Human-Computer Interface Issues in Controlling Virtual Reality With Brain-Computer Interface. Human-Computer Interaction, 2010, 25, 67-94.	4.4	31
107	Classification of movement-related EEG in a memorized delay task experiment. Clinical Neurophysiology, 2000, 111, 1353-1365.	1.5	30
108	Cardiac response induced by voluntary self-paced finger movement. International Journal of Psychophysiology, 1998, 28, 273-283.	1.0	29

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109	Phase relationships between different subdural electrode recordings in man. Neuroscience Letters, 2005, 375, 69-74.	2.1	29
110	Brisk heart rate and EEG changes during execution and withholding of cue-paced foot motor imagery. Frontiers in Human Neuroscience, 2013, 7, 379.	2.0	28
111	Effects of Handedness on Movement-Related Changes of Central Beta Rhythms. Journal of Clinical Neurophysiology, 1997, 14, 419-428.	1.7	28
112	Understanding and Realizing Presence in the Presenccia Project. IEEE Computer Graphics and Applications, 2007, 27, 90-93.	1.2	27
113	Lexical memory search during N400: cortical couplings in auditory comprehension. NeuroReport, 2004, 15, 1209-1213.	1.2	24
114	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
115	Sleep classification in infants by decision tree-based neural networks. Artificial Intelligence in Medicine, 1996, 8, 387-401.	6.5	22
116	Chapter 9 Flexibility and Practicality. International Review of Neurobiology, 2009, 86, 119-131.	2.0	21
117	Synchronization of intrinsic 0.1â€Hz bloodâ€oxygenâ€levelâ€dependent oscillations in amygdala and prefrontal cortex in subjects with increased state anxiety. European Journal of Neuroscience, 2018, 47, 417-426.	2.6	21
118	Human Brainâ€”Computer Interface. Frontiers in Neuroscience, 2004, , .	0.0	21
119	Semantic memory retrieval: cortical couplings in object recognition in the N400 window. European Journal of Neuroscience, 2005, 21, 1139-1143.	2.6	20
120	Restless Legs Syndrome: Changes of Induced Electroencephalographic Beta Oscillationsâ€”an ERD/ERS Study. Sleep, 2004, 27, 147-150.	1.1	19
121	Distinction between Neural and Vascular BOLD Oscillations and Intertwined Heart Rate Oscillations at 0.1 Hz in the Resting State and during Movement. PLoS ONE, 2017, 12, e0168097.	2.5	19
122	Correlation between EEG burst-to-burst intervals and HR acceleration in preterm infants. Neuroscience Letters, 2008, 437, 103-106.	2.1	18
123	Is there â€œneural efficiencyâ€•during the processing of visuo-spatial information in male humans? An EEG study. Behavioural Brain Research, 2009, 205, 468-474.	2.2	18
124	Does conscious intention to perform a motor act depend on slow cardiovascular rhythms?. Neuroscience Letters, 2010, 468, 46-50.	2.1	18
125	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. Frontiers in Neuroscience, 2020, 14, 922.	2.8	18
126	â€œSwitch-Offâ€•of Respiratory Sinus Arrhythmia Can Occur in a Minority of Subjects During Functional Magnetic Resonance Imaging (fMRI). Frontiers in Physiology, 2018, 9, 1688.	2.8	17

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127	Functional Imaging of Postmovement Beta Event-Related Synchronization. Journal of Clinical Neurophysiology, 1999, 16, 383-390.	1.7	17
128	Electroencephalographic characteristics during motor imagery. , 2010, , 65-82.		16
129	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
130	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
131	BCIs That Use Sensorimotor Rhythms. , 2012, , 228-240.		16
132	â€œSwitch-Offâ€•of Respiratory Sinus Arrhythmia May Be Associated With the Activation of an Oscillatory Source (Pacemaker) in the Brain Stem. Frontiers in Physiology, 2019, 10, 939.	2.8	14
133	Synchronous occurrence of EEG bursts and heart rate acceleration in preterm infants. Brain and Development, 2005, 27, 558-563.	1.1	13
134	Relationship between slow-wave EEG bursts and heart rate changes in preterm infants. Neuroscience Letters, 2005, 385, 126-130.	2.1	13
135	Brainstem Auditory Evoked Potentials in Respiratory Insufficiency Following Encephalitis. International Journal of Neuroscience, 1996, 84, 35-44.	1.6	12
136	Dynamics of Sensorimotor Oscillations in a Motor Task. The Frontiers Collection, 2009, , 47-64.	0.2	12
137	Lateral eye movements as an indication of hemispheric preference: an EEG validation study. International Journal of Psychophysiology, 1988, 6, 177-184.	1.0	11
138	Post-movement EEG synchronization studied with different high resolution methods. Brain Topography, 1997, 10, 103-113.	1.8	11
139	Movement and ERD/ERS. , 2003, , 191-206.		11
140	Phasic heart rate changes during word translation of different difficulties. Psychophysiology, 2007, 44, 807-813.	2.4	11
141	Brain-Computer Interface Systems Used for Virtual Reality Control. , 2011, , .		11
142	Thought-based interaction with the physical world. Trends in Cognitive Sciences, 2013, 17, 490-492.	7.8	11
143	The Graz Brain-Computer Interface. The Frontiers Collection, 2009, , 79-96.	0.2	11
144	Hilbert-transform based predictions of hand movements from EEG measurements. , 1992, , .		10

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145	Investigation of cue-based vertical and horizontal eye movements with electroencephalographic and eye-tracking data. Clinical Neurophysiology, 2009, 120, 1988-1993.	1.5	10
146	Processing of fMRI-related anxiety and bi-directional information flow between prefrontal cortex and brain stem. Scientific Reports, 2021, 11, 22348.	3.3	10
147	Ear dominance and laterality of cortical activation identified by event-related desynchronization mapping. International Journal of Psychophysiology, 1990, 8, 283-295.	1.0	9
148	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. PLoS ONE, 2018, 13, e0206675.	2.5	9
149	Non-invasive control of neuroprostheses for the upper extremity: Temporal coding of brain patterns. , 2009, 2009, 3353-6.		8
150	Penumbra around chronic cerebral infarction?. Neurological Research, 1988, 10, 246-251.	1.3	7
151	Negative respiratory sinus arrhythmia (nRSA) in the MRI-scanner - a physiologic phenomenon observed during elevated anxiety in healthy persons. Physiology and Behavior, 2022, 245, 113676.	2.1	7
152	Cardiovascular responses after brisk finger movement and their dependency on the â€œeigenfrequencyâ€• of the baroreflex loop. Neuroscience Letters, 2011, 490, 31-35.	2.1	6
153	Processing of fMRI-related anxiety and information flow between brain and body revealed a preponderance of oscillations at 0.15/0.16ÂHz. Scientific Reports, 2022, 12, .	3.3	6
154	Initiation of voluntary movements at free will and ongoing 0.1-Hz BOLD oscillations in the insulaÃ¢â‚¬â€a pilot study. Frontiers in Integrative Neuroscience, 2014, 8, 93.	2.1	4
155	Sleep classification with a combination of symbolic learning and learning vector quantization. , 1992, , .		3
156	A new approach to a brain-computer-interface (BCI) based on Learning Vector Quantization (LVQ3). , 1992, , .		3
157	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
158	EEG-based brainâ€“computer communication. , 2010, , 203-212.		3
159	Gaze-directed ubiquitous interaction using a Brain-Computer Interface. , 2010, , .		3
160	Entrainment of spontaneous cerebral hemodynamic oscillations to behavioral responses. Neuroscience Letters, 2014, 566, 93-97.	2.1	3
161	Heart rate variability and impact of central pacemaker on cardiac activity. Clinical Neurophysiology, 2018, 129, 2188-2190.	1.5	3
162	Pattern recognition of EEG signals during right and left motor imagery. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 139-144.	0.4	2

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163	Pattern Recognition of EEG Signals During Motor Imagery. , 2006, , .		2
164	AI-based approach to automatic sleep classification. Biological Cybernetics, 1994, 70, 443-448.	1.3	2
165	Design Method of Morphological Structural Function for Pattern Recognition of EEG Signals During Motor Imagery and Cognition. , 2009, , .		1
166	Event-Related Desynchronization (ERD) and 40-Hz Oscillations in a Simple Movement Task. , 1994, , 357-366.		1
167	LVQ-Based On-line EEG Classification. , 1993, , 161-166.		1
168	Sleep classification in infants by a Learning Vector Quantizer (LVQ3). , 1992, , .		0
169	Pattern recognition of EEG signals during motor imagery ~based on directed information analysis~. , 2007, , .		0
170	Graz Brain-Computer Interface: Control of neuroprostheses for the upper extremity. , 2008, , .		0
171	EEG signal analysis during miss operation in BCI system. , 2008, , .		0
172	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
173	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
174	Non Invasive BCIs for Neuroprostheses Control of the Paralysed Hand. The Frontiers Collection, 2009, , 171-184.	0.2	0
175	Pattern recognition of EEG signals during motor imagery by using robust method. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2009, 2009, 237-242.	0.2	0