

Gernot R MÃ¼ller-Putz

List of Publications by Year in descending order

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Version: 2024-02-01

183
papers

11,438
citations

47409

49
h-index

37326

100
g-index

189
all docs

189
docs citations

189
times ranked

7983
citing authors

#	ARTICLE	IF	CITATIONS
1	Workshops of the eighth international brain-computer interface meeting: BCIs: the next frontier. <i>Brain-Computer Interfaces</i> , 2022, 9, 69-101.	0.9	4
2	Measuring Spinal Cord Potentials and Cortico-Spinal Interactions After Wrist Movements Induced by Neuromuscular Electrical Stimulation. <i>Frontiers in Human Neuroscience</i> , 2022, 16, 858873.	1.0	2
3	Feel Your Reach: An EEG-Based Framework to Continuously Detect Goal-Directed Movements and Error Processing to Gate Kinesthetic Feedback Informed Artificial Arm Control. <i>Frontiers in Human Neuroscience</i> , 2022, 16, 841312.	1.0	10
4	Applying Dimensionality Reduction Techniques in Source-Space Electroencephalography via Template and Magnetic Resonance Imaging-Derived Head Models to Continuously Decode Hand Trajectories. <i>Frontiers in Human Neuroscience</i> , 2022, 16, 830221.	1.0	5
5	Editorial: Long Term User Training and Preparation to Succeed in a Closed-Loop BCI Competition. <i>Frontiers in Human Neuroscience</i> , 2022, 16, 869700.	1.0	1
6	Continuous 2D trajectory decoding from attempted movement: across-session performance in able-bodied and feasibility in a spinal cord injured participant. <i>Journal of Neural Engineering</i> , 2022, 19, 036005.	1.8	7
7	Toward passive BCI: asynchronous decoding of neural responses to direction- and angle-specific perturbations during a simulated cockpit scenario. <i>Scientific Reports</i> , 2022, 12, 6802.	1.6	3
8	Electroencephalography and Brain-Computer Interfaces. , 2021, , 71-103.		1
9	Invasive BCI Approaches for Restoration of Upper Extremity Movements. , 2021, , 217-232.		1
10	Non-invasive Brain-Computer Interfaces for Control of Grasp Neuroprosthesis: The European MoreGrasp Initiative. , 2021, , 307-352.		0
11	Toward Non-invasive BCI-Based Movement Decoding. , 2021, , 233-249.		0
12	Long-Term Mutual Training for the CYBATHLON BCI Race With a Tetraplegic Pilot: A Case Study on Inter-Session Transfer and Intra-Session Adaptation. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 635777.	1.0	15
13	Online asynchronous detection of error-related potentials in participants with a spinal cord injury using a generic classifier. <i>Journal of Neural Engineering</i> , 2021, 18, 046022.	1.8	24
14	Deep Learning-Based Classification of Fine Hand Movements from Low Frequency EEG. <i>Future Internet</i> , 2021, 13, 103.	2.4	26
15	Decoding of continuous movement attempt in 2-dimensions from non-invasive low frequency brain signals. , 2021, , .		7
16	Disentangling human grasping type from the object's intrinsic properties using low-frequency EEG signals. <i>NeuroImage Reports</i> , 2021, 1, 100012.	0.5	12
17	Online detection of movement during natural and self-initiated reach-and-grasp actions from EEG signals. <i>Journal of Neural Engineering</i> , 2021, 18, 046095.	1.8	7
18	Directional Decoding From EEG in a Center-Out Motor Imagery Task With Visual and Vibrotactile Guidance. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 687252.	1.0	5

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19	Mental State Detection Using Riemannian Geometry on Electroencephalogram Brain Signals. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 746081.	1.0	4
20	Neural Suppression Elicited During Motor Imagery Following the Observation of Biological Motion From Point-Light Walker Stimuli. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 788036.	1.0	5
21	Mental imagery for brain-computer interface control and communication in non-responsive individuals. <i>Annals of Physical and Rehabilitation Medicine</i> , 2020, 63, 21-27.	1.1	13
22	Unimanual and Bimanual Reach-and-Grasp Actions Can Be Decoded From Human EEG. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1684-1695.	2.5	36
23	Detecting System Errors in Virtual Reality Using EEG Through Error-Related Potentials. , 2020, , .		15
24	Non-linear online low-frequency EEG decoding of arm movements during a pursuit tracking task. , 2020, 2020, 2981-2985.		10
25	Analyzing and Decoding Natural Reach-and-Grasp Actions Using Gel, Water and Dry EEG Systems. <i>Frontiers in Neuroscience</i> , 2020, 14, 849.	1.4	26
26	A Generic Error-related Potential Classifier Offers a Comparable Performance to a Personalized Classifier. , 2020, 2020, 2995-2998.		6
27	Inter- and Intra-individual Variability in Brain Oscillations During Sports Motor Imagery. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 576241.	1.0	18
28	Detecting System Errors in Virtual Reality Using EEG Through Error-Related Potentials. , 2020, , .		2
29	Distinct cortical networks for hand movement initiation and directional processing: An EEG study. <i>NeuroImage</i> , 2020, 220, 117076.	2.1	21
30	Corneo-retinal-dipole and eyelid-related eye artifacts can be corrected offline and online in electroencephalographic and magnetoencephalographic signals. <i>NeuroImage</i> , 2020, 218, 117000.	2.1	25
31	Electroencephalography. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2020, 168, 249-262.	1.0	36
32	Using machine learning to reveal the population vector from EEG signals. <i>Journal of Neural Engineering</i> , 2020, 17, 026002.	1.8	11
33	SAFE: An EEG dataset for stable affective feature selection. <i>Advanced Engineering Informatics</i> , 2020, 44, 101047.	4.0	21
34	Decoding hand movements from human EEG to control a robotic arm in a simulation environment. <i>Journal of Neural Engineering</i> , 2020, 17, 036010.	1.8	32
35	Perturbation-evoked potentials can be classified from single-trial EEG. <i>Journal of Neural Engineering</i> , 2020, 17, 036008.	1.8	12
36	Consumer-Grade EEG Instruments: Insights on the Measurement Quality Based on a Literature Review and Implications for NeuroIS Research. <i>Lecture Notes in Information Systems and Organisation</i> , 2020, , 350-361.	0.4	12

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37	Continuous low-frequency EEG decoding of arm movement for closed-loop, natural control of a robotic arm. <i>Journal of Neural Engineering</i> , 2020, 17, 046031.	1.8	43
38	Assessing the impact of vibrotactile kinaesthetic feedback on electroencephalographic signals in a center-out task. <i>Journal of Neural Engineering</i> , 2020, 17, 056032.	1.8	8
39	Distance- and speed-informed kinematics decoding improves M/EEG based upper-limb movement decoder accuracy. <i>Journal of Neural Engineering</i> , 2020, 17, 056027.	1.8	16
40	Perturbation-Evoked Potentials: Future Usage in Human-Machine Interaction. <i>Lecture Notes in Information Systems and Organisation</i> , 2020, , 271-277.	0.4	1
41	Investigating the Role of Mind Wandering in Computer-Supported Collaborative Work: A Proposal for an EEG Study. <i>Lecture Notes in Information Systems and Organisation</i> , 2020, , 53-62.	0.4	2
42	On the Modulation of Perturbation-Evoked Potentials After Motor Reaction in a Human-Machine Interaction Setup. <i>Lecture Notes in Information Systems and Organisation</i> , 2020, , 344-349.	0.4	0
43	Domain Adaptation Techniques for EEG-Based Emotion Recognition: A Comparative Study on Two Public Datasets. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2019, 11, 85-94.	2.6	217
44	High-density EEG mobile brain/body imaging data recorded during a challenging auditory gait pacing task. <i>Scientific Data</i> , 2019, 6, 211.	2.4	13
45	Direct comparison of supervised and semi-supervised retraining approaches for co-adaptive BCIs. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 2347-2357.	1.6	12
46	Attempted Arm and Hand Movements can be Decoded from Low-Frequency EEG from Persons with Spinal Cord Injury. <i>Scientific Reports</i> , 2019, 9, 7134.	1.6	91
47	Combining frequency and time-domain EEG features for classification of self-paced reach-and-grasp actions. , 2019, 2019, 3036-3041.		9
48	HEAR to remove pops and drifts: the high-variance electrode artifact removal (HEAR) algorithm. , 2019, 2019, 5150-5155.		17
49	Applying intuitive EEG-controlled grasp neuroprostheses in individuals with spinal cord injury: Preliminary results from the MoreGrasp clinical feasibility study. , 2019, 2019, 5949-5955.		22
50	Online asynchronous decoding of error-related potentials during the continuous control of a robot. <i>Scientific Reports</i> , 2019, 9, 17596.	1.6	37
51	Workshops of the seventh international brain-computer interface meeting: not getting lost in translation. <i>Brain-Computer Interfaces</i> , 2019, 6, 71-101.	0.9	8
52	The Impact of Gestures on Formal Language Learning and Its Neural Correlates: A Study Proposal. <i>Lecture Notes in Information Systems and Organisation</i> , 2019, , 85-91.	0.4	0
53	Artifacts in EEG of simultaneous EEG-fMRI: pulse artifact remainders in the gradient artifact template are a source of artifact residuals after average artifact subtraction. <i>Journal of Neural Engineering</i> , 2019, 16, 016011.	1.8	13
54	Action affordances and visuo-spatial complexity in motor imagery: An fMRI study. <i>Brain and Cognition</i> , 2018, 124, 37-46.	0.8	18

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55	Factors that affect error potentials during a grasping task: toward a hybrid natural movement decoding BCI. <i>Journal of Neural Engineering</i> , 2018, 15, 046023.	1.8	29
56	Masked and unmasked error-related potentials during continuous control and feedback. <i>Journal of Neural Engineering</i> , 2018, 15, 036031.	1.8	30
57	Towards non-invasive brain-computer interface for hand/arm control in users with spinal cord injury. , 2018, , .		5
58	Decoding natural reach-and-grasp actions from human EEG. <i>Journal of Neural Engineering</i> , 2018, 15, 016005.	1.8	100
59	Online Reduction of Artifacts in EEG of Simultaneous EEG-fMRI Using Reference Layer Adaptive Filtering (RLAF). <i>Brain Topography</i> , 2018, 31, 129-149.	0.8	13
60	Tuning characteristics of low-frequency EEG to positions and velocities in visuomotor and oculomotor tracking tasks. <i>Scientific Reports</i> , 2018, 8, 17713.	1.6	37
61	Frequency Specific Cortical Dynamics During Motor Imagery Are Influenced by Prior Physical Activity. <i>Frontiers in Psychology</i> , 2018, 9, 1976.	1.1	32
62	Exploring representations of human grasping in neural, muscle and kinematic signals. <i>Scientific Reports</i> , 2018, 8, 16669.	1.6	32
63	Stable Feature Selection for EEG-based Emotion Recognition. , 2018, , .		4
64	EEG patterns of self-paced movement imaginations towards externally-cued and internally-selected targets. <i>Scientific Reports</i> , 2018, 8, 13394.	1.6	36
65	Imagine squeezing a cactus: Cortical activation during affective motor imagery measured by functional near-infrared spectroscopy. <i>Brain and Cognition</i> , 2018, 126, 13-22.	0.8	16
66	Towards using fNIRS recordings of mental arithmetic for the detection of residual cognitive activity in patients with disorders of consciousness (DOC). <i>Brain and Cognition</i> , 2018, 125, 78-87.	0.8	25
67	EEG neural correlates of goal-directed movement intention. <i>NeuroImage</i> , 2017, 149, 129-140.	2.1	92
68	Workshops of the Sixth International Brain-Computer Interface Meeting: brain-computer interfaces past, present, and future. <i>Brain-Computer Interfaces</i> , 2017, 4, 3-36.	0.9	24
69	Reference layer adaptive filtering (RLAF) for EEG artifact reduction in simultaneous EEG-fMRI. <i>Journal of Neural Engineering</i> , 2017, 14, 026003.	1.8	29
70	Towards non-invasive EEG-based arm/hand-control in users with spinal cord injury. , 2017, , .		13
71	The sixth international brain-computer interface meeting: advances in basic and clinical research. <i>Brain-Computer Interfaces</i> , 2017, 4, 1-2.	0.9	13
72	Hierarchical decoding of grasping commands from EEG. , 2017, 2017, 2085-2088.		3

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73	TiDâ€”Introducing and Benchmarking an Event-Delivery System for Brainâ€”Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2249-2257.	2.7	2
74	Force related hemodynamic responses during execution and imagery of a hand grip task: A functional near infrared spectroscopy study. Brain and Cognition, 2017, 117, 108-116.	0.8	22
75	Unsupervised Feature Learning for EEG-based Emotion Recognition. , 2017, , .		6
76	Cyathlon experiences of the Graz BCI racing team Mirage91 in the brain-computer interface discipline. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 129.	2.4	18
77	Composing only by thought: Novel application of the P300 brain-computer interface. PLoS ONE, 2017, 12, e0181584.	1.1	17
78	Upper limb movements can be decoded from the time-domain of low-frequency EEG. PLoS ONE, 2017, 12, e0182578.	1.1	161
79	15 Years of Evolution of Non-Invasive EEG-Based Methods for Restoring Hand & Arm Function with Motor Neuroprosthetics in Individuals with High Spinal Cord Injury: A Review of Graz BCI Research. Journal of Biomedical Science and Engineering, 2017, 10, 317-325.	0.2	4
80	The Role of Transient Target Stimuli in a Steady-State Somatosensory Evoked Potential-Based Brainâ€”Computer Interface Setup. Frontiers in Neuroscience, 2016, 10, 152.	1.4	12
81	Evaluation of Different EEG Acquisition Systems Concerning Their Suitability for Building a Brainâ€”Computer Interface: Case Studies. Frontiers in Neuroscience, 2016, 10, 441.	1.4	40
82	Using Support Vector Regression to estimate valence level from EEG. , 2016, , .		5
83	Brain-computer interface adaptation for an end user to compete in the Cyathlon. , 2016, , .		7
84	Lets play Tic-Tac-Toe: A Brain-Computer Interface case study in cerebral palsy. , 2016, , .		5
85	EEG Oscillations Are Modulated in Different Behavior-Related Networks during Rhythmic Finger Movements. Journal of Neuroscience, 2016, 36, 11671-11681.	1.7	44
86	A hybrid three-class brainâ€”computer interface system utilizing SSSEPs and transient ERPs. Journal of Neural Engineering, 2016, 13, 066015.	1.8	22
87	Distinct $\hat{\gamma}^2$ Band Oscillatory Networks Subserving Motor and Cognitive Control during Gait Adaptation. Journal of Neuroscience, 2016, 36, 2212-2226.	1.7	152
88	Single Versus Multiple Events Error Potential Detection in a BCI-Controlled Car Game With Continuous and Discrete Feedback. IEEE Transactions on Biomedical Engineering, 2016, 63, 519-529.	2.5	39
89	Random forests in non-invasive sensorimotor rhythm brain-computer interfaces: a practical and convenient non-linear classifier. Biomedizinische Technik, 2016, 61, 77-86.	0.9	84
90	Towards Noninvasive Hybrid Brainâ€”Computer Interfaces: Framework, Practice, Clinical Application, and Beyond. Proceedings of the IEEE, 2015, 103, 926-943.	16.4	133

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91	Functional Rehabilitation of the Paralyzed Upper Extremity After Spinal Cord Injury by Noninvasive Hybrid Neuroprostheses. Proceedings of the IEEE, 2015, 103, 954-968.	16.4	60
92	Game-Based BCI Training: Interactive Design for Individuals with Cerebral Palsy. , 2015, , .		6
93	A co-adaptive sensory motor rhythms Brain-Computer Interface based on common spatial patterns and Random Forest. , 2015, 2015, 1049-52.		21
94	Reduction of EEG artifacts in simultaneous EEG-fMRI: Reference layer adaptive filtering (RLAF). , 2015, 2015, 3803-6.		2
95	BNCI Horizon 2020: towards a roadmap for the BCI community. Brain-Computer Interfaces, 2015, 2, 1-10.	0.9	169
96	Thought-based row-column scanning communication board for individuals with cerebral palsy. Annals of Physical and Rehabilitation Medicine, 2015, 58, 14-22.	1.1	40
97	Control or non-control state: that is the question! An asynchronous visual P300-based BCI approach. Journal of Neural Engineering, 2015, 12, 014001.	1.8	46
98	FORCe: Fully Online and Automated Artifact Removal for Brain-Computer Interfacing. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 725-736.	2.7	133
99	Using a Noninvasive Decoding Method to Classify Rhythmic Movement Imaginations of the Arm in Two Planes. IEEE Transactions on Biomedical Engineering, 2015, 62, 972-981.	2.5	59
100	User-centred design in brain-computer interface research and development. Annals of Physical and Rehabilitation Medicine, 2015, 58, 312-314.	1.1	8
101	High and low gamma EEG oscillations in central sensorimotor areas are conversely modulated during the human gait cycle. NeuroImage, 2015, 112, 318-326.	2.1	158
102	Brain-controlled applications using dynamic P300 speller matrices. Artificial Intelligence in Medicine, 2015, 63, 7-17.	3.8	46
103	Individually Adapted Imagery Improves Brain-Computer Interface Performance in End-Users with Disability. PLoS ONE, 2015, 10, e0123727.	1.1	45
104	A Co-Adaptive Brain-Computer Interface for End Users with Severe Motor Impairment. PLoS ONE, 2014, 9, e101168.	1.1	40
105	It's how you get there: walking down a virtual alley activates premotor and parietal areas. Frontiers in Human Neuroscience, 2014, 8, 93.	1.0	142
106	Short time sports exercise boosts motor imagery patterns: implications of mental practice in rehabilitation programs. Frontiers in Human Neuroscience, 2014, 8, 469.	1.0	41
107	EEG beta suppression and low gamma modulation are different elements of human upright walking. Frontiers in Human Neuroscience, 2014, 8, 485.	1.0	168
108	Non motor tasks improve adaptive brain-computer interface performance in users with severe motor impairment. Frontiers in Neuroscience, 2014, 8, 320.	1.4	25

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109	Workshops of the Fifth International Brain-Computer Interface Meeting: Defining the Future. <i>Brain-Computer Interfaces</i> , 2014, 1, 27-49.	0.9	35
110	A Tactile Stimulation Device for EEG Measurements in Clinical Use. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2014, 8, 305-312.	2.7	16
111	Cortical effects of user training in a motor imagery based brain-computer interface measured by fNIRS and EEG. <i>NeuroImage</i> , 2014, 85, 432-444.	2.1	153
112	Effects of mental workload and fatigue on the P300, alpha and theta band power during operation of an ERP (P300) brain-computer interface. <i>Biological Psychology</i> , 2014, 102, 118-129.	1.1	218
113	Entrainment of spontaneous cerebral hemodynamic oscillations to behavioral responses. <i>Neuroscience Letters</i> , 2014, 566, 93-97.	1.0	3
114	Exploration of the neural correlates of cerebral palsy for sensorimotor BCI control. <i>Frontiers in Neuroengineering</i> , 2014, 7, 20.	4.8	20
115	Detection of mental imagery and attempted movements in patients with disorders of consciousness using EEG. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 1009.	1.0	23
116	BNCI Horizon 2020 – Towards a Roadmap for Brain/Neural Computer Interaction. <i>Lecture Notes in Computer Science</i> , 2014, , 475-486.	1.0	15
117	SCoT: a Python toolbox for EEG source connectivity. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 22.	1.3	28
118	On the control of brain-computer interfaces by users with cerebral palsy. <i>Clinical Neurophysiology</i> , 2013, 124, 1787-1797.	0.7	133
119	Broad band time-varying estimation of event-related synchronization for user-independent configuration of a brain switch. , 2013, , .		0
120	Brain-computer interfacing: more than the sum of its parts. <i>Soft Computing</i> , 2013, 17, 317-331.	2.1	45
121	The auditory P300-based single-switch brain-computer interface: Paradigm transition from healthy subjects to minimally conscious patients. <i>Artificial Intelligence in Medicine</i> , 2013, 59, 81-90.	3.8	74
122	The Convergence of Machine and Biological Intelligence. <i>IEEE Intelligent Systems</i> , 2013, 28, 28-43.	4.0	26
123	Hybrid brain-computer interfaces and hybrid neuroprostheses for restoration of upper limb functions in individuals with high-level spinal cord injury. <i>Artificial Intelligence in Medicine</i> , 2013, 59, 133-142.	3.8	150
124	On the Use of Games for Noninvasive EEG-Based Functional Brain Mapping. <i>IEEE Transactions on Games</i> , 2013, 5, 155-163.	1.7	25
125	A SINGLE-SWITCH BCI BASED ON PASSIVE AND IMAGINED MOVEMENTS: TOWARD RESTORING COMMUNICATION IN MINIMALLY CONSCIOUS PATIENTS. <i>International Journal of Neural Systems</i> , 2013, 23, 1250037.	3.2	66
126	On the Automated Removal of Artifacts Related to Head Movement From the EEG. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013, 21, 427-434.	2.7	120

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127	Single-trial connectivity estimation for classification of motor imagery data. Journal of Neural Engineering, 2013, 10, 046006.	1.8	51
128	Brisk heart rate and EEG changes during execution and withholding of cue-paced foot motor imagery. Frontiers in Human Neuroscience, 2013, 7, 379.	1.0	28
129	iScope – Viewing Biosignals on Mobile Devices. Lecture Notes in Computer Science, 2013, , 50-56.	1.0	4
130	Random Forests for Feature Selection in Non-invasive Brain-Computer Interfacing. Lecture Notes in Computer Science, 2013, , 207-216.	1.0	8
131	Decoding of velocities and positions of 3D arm movement from EEG. , 2012, 2012, 6406-9.		53
132	Relationship Between Electrical Brain Responses to Motor Imagery and Motor Impairment in Stroke. Stroke, 2012, 43, 2735-2740.	1.0	96
133	Development of a non-invasive, multifunctional grasp neuroprosthesis and its evaluation in an individual with a high spinal cord injury. , 2012, 2012, 1835-8.		22
134	Is It Significant? Guidelines for Reporting BCI Performance. Biological and Medical Physics Series, 2012, , 333-354.	0.3	47
135	New input modalities for modern game design and virtual embodiment. , 2012, , .		9
136	Cue-induced beta rebound during withholding of overt and covert foot movement. Clinical Neurophysiology, 2012, 123, 1182-1190.	0.7	85
137	Level of participation in robotic-assisted treadmill walking modulates midline sensorimotor EEG rhythms in able-bodied subjects. NeuroImage, 2012, 63, 1203-1211.	2.1	255
138	Kinect-based detection of self-paced hand movements: Enhancing functional brain mapping paradigms. , 2012, 2012, 4748-51.		10
139	What does clean EEG look like?. , 2012, 2012, 3963-6.		47
140	The interplay of prefrontal and sensorimotor cortices during inhibitory control of learned motor behavior. Frontiers in Neuroengineering, 2012, 5, 17.	4.8	15
141	Switching between Manual Control and Brain-Computer Interface Using Long Term and Short Term Quality Measures. Frontiers in Neuroscience, 2012, 5, 147.	1.4	29
142	Review of the BCI Competition IV. Frontiers in Neuroscience, 2012, 6, 55.	1.4	686
143	Error potential detection during continuous movement of an artificial arm controlled by brain-computer interface. Medical and Biological Engineering and Computing, 2012, 50, 223-230.	1.6	48
144	Stability and distribution of steady-state somatosensory evoked potentials elicited by vibro-tactile stimulation. Medical and Biological Engineering and Computing, 2012, 50, 347-357.	1.6	70

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145	Proposing a Standardized Protocol for Raw Biosignal Transmission. IEEE Transactions on Biomedical Engineering, 2012, 59, 852-859.	2.5	34
146	Towards a Framework Based on Single Trial Connectivity for Enhancing Knowledge Discovery in BCI. Lecture Notes in Computer Science, 2012, , 658-667.	1.0	6
147	Coupling between Intrinsic Prefrontal HbO ₂ and Central EEG Beta Power Oscillations in the Resting Brain. PLoS ONE, 2012, 7, e43640.	1.1	53
148	A concept to standardize raw biosignal transmission for brain-computer interfaces. , 2011, 2011, 6377-80.		5
149	First Steps Toward a Motor Imagery Based Stroke BCI: New Strategy to Set up a Classifier. Frontiers in Neuroscience, 2011, 5, 86.	1.4	89
150	Combined motor imagery and SSVEP based BCI control of a 2 DoF artificial upper limb. Medical and Biological Engineering and Computing, 2011, 49, 567-577.	1.6	126
151	Brisk movement imagination for the non-invasive control of neuroprostheses: A first attempt. , 2011, 2011, 4219-22.		2
152	Tools for brain-computer interaction: a general concept for a hybrid BCI. Frontiers in Neuroinformatics, 2011, 5, 30.	1.3	121
153	Somatosensory evoked potentials elicited by stimulating two fingers from one hand — Usable for BCI?. , 2011, 2011, 6373-6.		8
154	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.	2.7	848
155	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.	1.6	101
156	Improved signal processing approaches in an offline simulation of a hybrid brain-computer interface. Journal of Neuroscience Methods, 2010, 188, 165-173.	1.3	105
157	Analysis of sensorimotor rhythms for the implementation of a brain switch for healthy subjects. Biomedical Signal Processing and Control, 2010, 5, 15-20.	3.5	63
158	Temporal coding of brain patterns for direct limb control in humans. Frontiers in Neuroscience, 2010, 4, .	1.4	48
159	Asynchronous steady-state visual evoked potential based BCI control of a 2-DoF artificial upper limb. Biomedizinische Technik, 2010, 55, 367-374.	0.9	16
160	Gaze-directed ubiquitous interaction using a Brain-Computer Interface. , 2010, , .		3
161	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.	0.3	69
162	The hybrid BCI. Frontiers in Neuroscience, 2010, 4, 30.	1.4	431

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163	Chapter 9 Flexibility and Practicality. <i>International Review of Neurobiology</i> , 2009, 86, 119-131.	0.9	21
164	Multimodal Imaging of Human Brain Activity: Rational, Biophysical Aspects and Modes of Integration. <i>Computational Intelligence and Neuroscience</i> , 2009, 2009, 1-10.	1.1	13
165	Non-invasive control of neuroprostheses for the upper extremity: Temporal coding of brain patterns. , 2009, 2009, 3353-6.		8
166	Brain motor system function in a patient with complete spinal cord injury following extensive brain-computer interface training. <i>Experimental Brain Research</i> , 2008, 190, 215-223.	0.7	95
167	Comparison of DFT and lock-in amplifier features and search for optimal electrode positions in SSVEP-based BCI. <i>Journal of Neuroscience Methods</i> , 2008, 168, 174-181.	1.3	57
168	Overt foot movement detection in one single Laplacian EEG derivation. <i>Journal of Neuroscience Methods</i> , 2008, 175, 148-153.	1.3	47
169	Control of an Electrical Prosthesis With an SSVEP-Based BCI. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 361-364.	2.5	507
170	Rehabilitation with Brain-Computer Interface Systems. <i>Computer</i> , 2008, 41, 58-65.	1.2	167
171	Correlation between EEG burst-to-burst intervals and HR acceleration in preterm infants. <i>Neuroscience Letters</i> , 2008, 437, 103-106.	1.0	18
172	Graz Brain-Computer Interface: Control of neuroprostheses for the upper extremity. , 2008, , .		0
173	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.	1.1	353
174	Event-related beta EEG-changes during passive and attempted foot movements in paraplegic patients. <i>Brain Research</i> , 2007, 1137, 84-91.	1.1	162
175	Post-movement beta synchronization after kinesthetic illusion, active and passive movements. <i>International Journal of Psychophysiology</i> , 2006, 62, 321-327.	0.5	37
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