

Jose Del R Millan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

249
papers

10,525
citations

54
h-index

97
g-index

257
ext. papers

12,905
ext. citations

4.1
avg, IF

6.47
L-index

#	Paper	IF	Citations
249	The BCI competition. III: Validating alternative approaches to actual BCI problems. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2006 , 14, 153-9	4.8	612
248	A brain-actuated wheelchair: asynchronous and non-invasive Brain-computer interfaces for continuous control of robots. <i>Clinical Neurophysiology</i> , 2008 , 119, 2159-69	4.3	507
247	Control strategies for active lower extremity prosthetics and orthotics: a review. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015 , 12, 1	5.3	448
246	Noninvasive brain-actuated control of a mobile robot by human EEG. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 1026-33	5	444
245	The Opportunity challenge: A benchmark database for on-body sensor-based activity recognition. <i>Pattern Recognition Letters</i> , 2013 , 34, 2033-2042	4.7	336
244	Combining Brain-Computer Interfaces and Assistive Technologies: State-of-the-Art and Challenges. <i>Frontiers in Neuroscience</i> , 2010 , 4,	5.1	336
243	Person authentication using brainwaves (EEG) and maximum a posteriori model adaptation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007 , 29, 743-52	13.3	305
242	Brain-Controlled Wheelchairs: A Robotic Architecture. <i>IEEE Robotics and Automation Magazine</i> , 2013 , 20, 65-73	3.4	255
241	2010 ,		255
240	Error-related EEG potentials generated during simulated brain-computer interaction. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 923-9	5	219
239	Asynchronous BCI and local neural classifiers: an overview of the Adaptive Brain Interface project. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2003 , 11, 159-61	4.8	200
238	Brain-Computer Interfacing for Intelligent Systems. <i>IEEE Intelligent Systems</i> , 2008 , 23, 72-79	4.2	173
237	Brain-actuated functional electrical stimulation elicits lasting arm motor recovery after stroke. <i>Nature Communications</i> , 2018 , 9, 2421	17.4	170
236	Brain-computer interfaces for post-stroke motor rehabilitation: a meta-analysis. <i>Annals of Clinical and Translational Neurology</i> , 2018 , 5, 651-663	5.3	161
235	Errare machinale est: the use of error-related potentials in brain-machine interfaces. <i>Frontiers in Neuroscience</i> , 2014 , 8, 208	5.1	146
234	A hybrid brain-computer interface based on the fusion of electroencephalographic and electromyographic activities. <i>Journal of Neural Engineering</i> , 2011 , 8, 025011	5	144
233	Detection of self-paced reaching movement intention from EEG signals. <i>Frontiers in Neuroengineering</i> , 2012 , 5, 13		142

232	Learning from EEG error-related potentials in noninvasive brain-computer interfaces. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2010 , 18, 381-8	4.8	142
231	Brain-actuated interaction. <i>Artificial Intelligence</i> , 2004 , 159, 241-259	3.6	139
230	BNCI Horizon 2020: towards a roadmap for the BCI community. <i>Brain-Computer Interfaces</i> , 2015 , 2, 1-10	2	135
229	Towards a robust BCI: error potentials and online learning. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2006 , 14, 164-8	4.8	124
228	A local neural classifier for the recognition of EEG patterns associated to mental tasks. <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 678-86		118
227	Personalized neuroprosthetics. <i>Science Translational Medicine</i> , 2013 , 5, 210rv2	17.5	110
226	Decoding spectrotemporal features of overt and covert speech from the human cortex. <i>Frontiers in Neuroengineering</i> , 2014 , 7, 14		107
225	Transferring brain-computer interfaces beyond the laboratory: successful application control for motor-disabled users. <i>Artificial Intelligence in Medicine</i> , 2013 , 59, 121-32	7.4	105
224	Towards Independence: A BCI Telepresence Robot for People With Severe Motor Disabilities. <i>Proceedings of the IEEE</i> , 2015 , 103, 969-982	14.3	103
223	Linear classification of low-resolution EEG patterns produced by imagined hand movements. <i>IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society</i> , 2000 , 8, 186-8		102
222	Tools for Brain-Computer Interaction: A General Concept for a Hybrid BCI. <i>Frontiers in Neuroinformatics</i> , 2011 , 5, 30	3.9	101
221	Adaptive brain interfaces. <i>Communications of the ACM</i> , 2003 , 46, 74-80	2.5	99
220	. <i>Proceedings of the IEEE</i> , 2015 , 103, 926-943	14.3	98
219	Vibrotactile feedback for brain-computer interface operation. <i>Computational Intelligence and Neuroscience</i> , 2007 , 2007, 48937	3	98
218	2007 ,		93
217	Context-based filtering for assisted brain-actuated wheelchair driving. <i>Computational Intelligence and Neuroscience</i> , 2007 , 25130	3	83
216	Teaching brain-machine interfaces as an alternative paradigm to neuroprosthetics control. <i>Scientific Reports</i> , 2015 , 5, 13893	4.9	82
215	High-resolution EEG techniques for brain-computer interface applications. <i>Journal of Neuroscience Methods</i> , 2008 , 167, 31-42	3	82

214	On the need for on-line learning in brain-computer interfaces		79
213	Asynchronous non-invasive brain-actuated control of an intelligent wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009</i> , 2009, 3361-4	0.9	76
212	Brain-coupled interaction for semi-autonomous navigation of an assistive robot. <i>Robotics and Autonomous Systems, 2010</i> , 58, 1246-1255	3.5	76
211	The role of shared-control in BCI-based telepresence 2010 ,		73
210	Invasive or noninvasive: understanding brain-machine interface technology. <i>IEEE Engineering in Medicine and Biology Magazine, 2010</i> , 29, 16-22		72
209	Word pair classification during imagined speech using direct brain recordings. <i>Scientific Reports, 2016</i> , 6, 25803	4.9	71
208	Neurotechnology-aided interventions for upper limb motor rehabilitation in severe chronic stroke. <i>Brain, 2019</i> , 142, 2182-2197	11.2	68
207	Relevant EEG features for the classification of spontaneous motor-related tasks. <i>Biological Cybernetics, 2002</i> , 86, 89-95	2.8	67
206	NON-INVASIVE BRAIN-MACHINE INTERACTION. <i>International Journal of Pattern Recognition and Artificial Intelligence, 2008</i> , 22, 959-972	1.1	66
205	The Cybathlon BCI race: Successful longitudinal mutual learning with two tetraplegic users. <i>PLoS Biology, 2018</i> , 16, e2003787	9.7	63
204	A brain-controlled exoskeleton with cascaded event-related desynchronization classifiers. <i>Robotics and Autonomous Systems, 2017</i> , 90, 15-23	3.5	62
203	mano: A Wearable Hand Exoskeleton for Activities of Daily Living and Neurorehabilitation. <i>IEEE Robotics and Automation Letters, 2018</i> , 3, 500-507	4.2	62
202	Single trial analysis of slow cortical potentials: a study on anticipation related potentials. <i>Journal of Neural Engineering, 2013</i> , 10, 036014	5	60
201	Continuous-Action Q-Learning. <i>Machine Learning, 2002</i> , 49, 247-265	4	60
200	Brain-controlled telepresence robot by motor-disabled people. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011</i> , 2011, 4227-30	0.9	59
199	EEG-based decoding of error-related brain activity in a real-world driving task. <i>Journal of Neural Engineering, 2015</i> , 12, 066028	5	58
198	Encoding and Decoding Models in Cognitive Electrophysiology. <i>Frontiers in Systems Neuroscience, 2017</i> , 11, 61	3.5	55
197	EEG-based Brain-Computer Interface to support post-stroke motor rehabilitation of the upper limb. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012</i> , 2012, 4112-5	0.9	55

196	Benchmarking classification techniques using the Opportunity human activity dataset 2011 ,		54
195	Clinical evaluation of BrainTree, a motor imagery hybrid BCI speller. <i>Journal of Neural Engineering</i> , 2014 , 11, 036003	5	50
194	Single trial prediction of self-paced reaching directions from EEG signals. <i>Frontiers in Neuroscience</i> , 2014 , 8, 222	5.1	49
193	Rapid, safe, and incremental learning of navigation strategies. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1996 , 26, 408-20		47
192	Opportunistic human activity and context recognition. <i>Computer</i> , 2013 , 46, 36-45	1.6	46
191	OPPORTUNITY: Towards opportunistic activity and context recognition systems 2009 ,		44
190	Very high frequency oscillations (VHFO) as a predictor of movement intentions. <i>NeuroImage</i> , 2006 , 32, 170-9	7.9	43
189	Brain-computer interfaces for space applications. <i>Personal and Ubiquitous Computing</i> , 2011 , 15, 527-537	2.1	41
188	Multimodal fusion of muscle and brain signals for a hybrid-BCI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4343-6	0.9	41
187	Unsupervised adaptation for acceleration-based activity recognition: robustness to sensor displacement and rotation. <i>Personal and Ubiquitous Computing</i> , 2013 , 17, 479-490	2.1	39
186	Recognition of imagined hand movements with low resolution surface Laplacian and linear classifiers. <i>Medical Engineering and Physics</i> , 2001 , 23, 323-8	2.4	39
185	Corticospinal neuroprostheses to restore locomotion after spinal cord injury. <i>Neuroscience Research</i> , 2014 , 78, 21-9	2.9	38
184	Increasing upper limb training intensity in chronic stroke using embodied virtual reality: a pilot study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017 , 14, 119	5.3	37
183	An online EEG BCI based on covert visuospatial attention in absence of exogenous stimulation. <i>Journal of Neural Engineering</i> , 2013 , 10, 056007	5	36
182	The effect of multimodal and enriched feedback on SMR-BCI performance. <i>Clinical Neurophysiology</i> , 2016 , 127, 490-498	4.3	35
181	Brain-computer interfaces for hci and games 2008 ,		35
180	Efficient learning of variable-resolution cognitive maps for autonomous indoor navigation. <i>IEEE Transactions on Automation Science and Engineering</i> , 1999 , 15, 990-1000		34
179	Classification of upper limb center-out reaching tasks by means of EEG-based continuous decoding techniques. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017 , 14, 9	5.3	33

178	Decoding Inner Speech Using ElectroCorticography: Progress and Challenges Toward a Speech Prosthesis. <i>Frontiers in Neuroscience</i> , 2018 , 12, 422	5.1	33
177	Latency correction of event-related potentials between different experimental protocols. <i>Journal of Neural Engineering</i> , 2014 , 11, 036005	5	32
176	On-line anomaly detection and resilience in classifier ensembles. <i>Pattern Recognition Letters</i> , 2013 , 34, 1916-1927	4.7	32
175	Towards natural non-invasive hand neuroprostheses for daily living. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 126-9	0.9	32
174	Action prediction based on anticipatory brain potentials during simulated driving. <i>Journal of Neural Engineering</i> , 2015 , 12, 066006	5	31
173	Temporal Kohonen Map and the Recurrent Self-Organizing Map: Analytical and Experimental Comparison. <i>Neural Processing Letters</i> , 2001 , 13, 237-251	2.4	30
172	Reinforcement learning of goal-directed obstacle-avoiding reaction strategies in an autonomous mobile robot. <i>Robotics and Autonomous Systems</i> , 1995 , 15, 275-299	3.5	29
171	Human EEG reveals distinct neural correlates of power and precision grasping types. <i>NeuroImage</i> , 2018 , 181, 635-644	7.9	28
170	Detection of anticipatory brain potentials during car driving. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3829-32	0.9	28
169	Latency correction of error potentials between different experiments reduces calibration time for single-trial classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3288-91	0.9	28
168	Characterizing the EEG correlates of exploratory behavior. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008 , 16, 549-56	4.8	27
167	Feature Extraction for Multi-class BCI using Canonical Variates Analysis 2007 ,		27
166	Non-invasive estimation of local field potentials for neuroprosthesis control. <i>Cognitive Processing</i> , 2005 , 6, 59-64	1.5	27
165	Sensory threshold neuromuscular electrical stimulation fosters motor imagery performance. <i>NeuroImage</i> , 2018 , 176, 268-276	7.9	26
164	The timing of exploratory decision-making revealed by single-trial topographic EEGanalyses. <i>NeuroImage</i> , 2012 , 60, 1959-69	7.9	25
163	Long-Term Stable Control of Motor-Imagery BCI by a Locked-In User Through Adaptive Assistance. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 380-391	4.8	24
162	EEG topographies provide subject-specific correlates of motor control. <i>Scientific Reports</i> , 2017 , 7, 13229	4.9	24
161	EEG-Based Lower-Limb Movement Onset Decoding: Continuous Classification and Asynchronous Detection. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 1626-1635	4.8	24

160	Fast recognition of anticipation-related potentials. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 1257-60	5	24
159	Context-aware adaptive spelling in motor imagery BCI. <i>Journal of Neural Engineering</i> , 2016 , 13, 036018	5	24
158	Cortical and subcortical mechanisms of brain-machine interfaces. <i>Human Brain Mapping</i> , 2017 , 38, 2971-2989	5.9	23
157	Prospects of brain-machine interfaces for space system control. <i>Acta Astronautica</i> , 2009 , 64, 448-456	2.9	23
156	Specialization in multi-agent systems through learning. <i>Biological Cybernetics</i> , 1997 , 76, 375-82	2.8	23
155	Hyperdimensional Computing for Noninvasive Brain-Computer Interfaces: Blind and One-Shot Classification of EEG Error-Related Potentials 2017 ,		23
154	Disentangling the origins of confidence in speeded perceptual judgments through multimodal imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 8382-8390	11.5	22
153	Brain-machine interface: closer to therapeutic reality?. <i>Lancet, The</i> , 2013 , 381, 515-7	40	22
152	Time-dependent approach for single trial classification of covert visuospatial attention. <i>Journal of Neural Engineering</i> , 2012 , 9, 045011	5	22
151	. <i>IEEE Computational Intelligence Magazine</i> , 2016 , 11, 32-39	5.6	21
150	Steering timing prediction in a driving simulator task. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6913-6	0.9	21
149	Closed-loop electrical neurostimulation: Challenges and opportunities. <i>Current Opinion in Biomedical Engineering</i> , 2018 , 8, 28-37	4.4	21
148	A hybrid BCI for enhanced control of a telepresence robot. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 3097-100	0.9	20
147	Learning Signaling Behaviors and Specialization in Cooperative Agents. <i>Adaptive Behavior</i> , 1996 , 5, 5-28	1.1	20
146	Kinect=IMU? Learning MIMO Signal Mappings to Automatically Translate Activity Recognition Systems across Sensor Modalities 2012 ,		19
145	Self-paced movement intention detection from human brain signals: Invasive and non-invasive EEG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3280-3	0.9	19
144			19
143	Electrically Assisted Movement Therapy in Chronic Stroke Patients With Severe Upper Limb Paresis: A Pilot, Single-Blind, Randomized Crossover Study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2017 , 98, 1628-1635.e2	2.8	18

142	Neural Encoding of Auditory Features during Music Perception and Imagery. <i>Cerebral Cortex</i> , 2018 , 28, 4222-4233	5.1	18
141	Brain-Computer Interfaces and Assistive Technology. <i>The International Library of Ethics, Law and Technology</i> , 2014 , 7-38	0.5	18
140	Phase-based features for motor imagery brain-computer interfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 2578-81	0.9	18
139	The birth of the brain-controlled wheelchair 2012 ,		18
138	A Reinforcement Connectionist Approach to Robot Path Finding in Non-Maze-Like Environments. <i>Machine Learning</i> , 1992 , 8, 363-395	4	18
137	Hyperdimensional Computing for Blind and One-Shot Classification of EEG Error-Related Potentials. <i>Mobile Networks and Applications</i> , 2020 , 25, 1958-1969	2.9	18
136	Peri-personal space encoding in patients with disorders of consciousness and cognitive-motor dissociation. <i>NeuroImage: Clinical</i> , 2019 , 24, 101940	5.3	17
135	Freeing the visual channel by exploiting vibrotactile BCI feedback. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 3093-6	0.9	17
134	On the Use of Brain Decoded Signals for Online User Adaptive Gesture Recognition Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 427-444	0.9	17
133	Harnessing Prefrontal Cognitive Signals for Brain-Machine Interfaces. <i>Trends in Biotechnology</i> , 2017 , 35, 585-597	15.1	16
132	Discriminant brain connectivity patterns of performance monitoring at average and single-trial levels. <i>NeuroImage</i> , 2015 , 120, 64-74	7.9	16
131	On the road to a neuroprosthetic hand: a novel hand grasp orthosis based on functional electrical stimulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 146-9	0.9	16
130	The use of intracranial recordings to decode human language: Challenges and opportunities. <i>Brain and Language</i> , 2019 , 193, 73-83	2.9	16
129	Cortico-Muscular Coherence Is Reduced Acutely Post-stroke and Increases Bilaterally During Motor Recovery: A Pilot Study. <i>Frontiers in Neurology</i> , 2019 , 10, 126	4.1	15
128	Anticipation- and error-related EEG signals during realistic human-machine interaction: a study on visual and tactile feedback. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 6723-6	0.9	15
127	A recurrent self-organizing map for temporal sequence processing. <i>Lecture Notes in Computer Science</i> , 1997 , 421-426	0.9	15
126	An iterative framework for EEG-based image search: robust retrieval with weak classifiers. <i>PLoS ONE</i> , 2013 , 8, e72018	3.7	15
125	. <i>IEEE Transactions on Robotics</i> , 2020 , 36, 78-91	6.5	15

124	Decoding of Self-paced Lower-Limb Movement Intention: A Case Study on the Influence Factors. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 560	3.3	14
123	Brain-Machine Interfaces: A Tale of Two Learners. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2020 , 6, 12-19	1.6	14
122	. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2018 , 2, 288-297	4.1	13
121	Brain-actuated gait trainer with visual and proprioceptive feedback. <i>Journal of Neural Engineering</i> , 2017 , 14, 056017	5	13
120	Plug&Play Brain-Computer Interfaces for effective Active and Assisted Living control. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 1339-1352	3.1	13
119	Brain-Machine Interfaces: The Perception-Action Closed Loop: A Two-Learner System. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2015 , 1, 6-8	1.6	13
118	Detecting intention to grasp during reaching movements from EEG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1115-8	0.9	13
117	Unsupervised Adaptation to On-body Sensor Displacement in Acceleration-Based Activity Recognition 2011 ,		13
116	Online modulation of the level of assistance in shared control systems 2012 ,		13
115	Robot arm reaching through neural inversions and reinforcement learning. <i>Robotics and Autonomous Systems</i> , 2000 , 31, 227-246	3.5	13
114	Brain-computer interfaces: Definitions and principles. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2020 , 168, 15-23	3	12
113	Uncovering EEG Correlates of Covert Attention in Soccer Goalkeepers: Towards Innovative Sport Training Procedures. <i>Scientific Reports</i> , 2020 , 10, 1705	4.9	12
112	Novice Shooters With Lower Pre-shooting Alpha Power Have Better Performance During Competition in a Virtual Reality Scenario. <i>Frontiers in Psychology</i> , 2018 , 9, 527	3.4	12
111	Detecting anomalies to improve classification performance in opportunistic sensor networks 2011 ,		12
110	Detecting and Rectifying Anomalies in Body Sensor Networks 2011 ,		12
109	Adaptation of hybrid human-computer interaction systems using EEG error-related potentials. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4226-9	0.9	11
108	Ensemble creation and reconfiguration for activity recognition: An information theoretic approach 2011 ,		11
107	Gender bias in academia: A lifetime problem that needs solutions. <i>Neuron</i> , 2021 , 109, 2047-2074	13.9	11

106	Brain racers. <i>IEEE Spectrum</i> , 2017 , 54, 44-51	1.7	10
105	Single trial recognition of anticipatory slow cortical potentials: The role of spatio-spectral filtering 2011 ,		10
104	Validation of brain-machine interfaces during parabolic flight. <i>International Review of Neurobiology</i> , 2009 , 86, 189-97	4.4	10
103	Action Monitoring Cortical Activity Coupled to Submovements. <i>ENeuro</i> , 2017 , 4,	3.9	10
102	Improving Skills and Perception in Robot Navigation by an Augmented Virtuality Assistance System. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014 , 76, 255-266	2.9	9
101	Behavioral and Cortical Effects during Attention Driven Brain-Computer Interface Operations in Spatial Neglect: A Feasibility Case Study. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 336	3.3	9
100	Recent and Upcoming BCI Progress: Overview, Analysis, and Recommendations 2012 , 1-13		9
99	Activity Recognition in Opportunistic Sensor Environments. <i>Procedia Computer Science</i> , 2011 , 7, 173-174	1.6	9
98	Improved recognition of error related potentials through the use of brain connectivity features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 6740-3	0.9	9
97	To Err is Human: Learning from Error Potentials in Brain-Computer Interfaces 2008 , 777-782		9
96	Noninvasive BrainMachine Interfaces for Robotic Devices. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2021 , 4, 191-214	11.8	9
95	Subject-oriented training for motor imagery brain-computer interfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 1259-62	0.9	8
94	An EEG-based brain-computer interface for gait training 2017 ,		8
93	Inferring subjective preferences on robot trajectories using EEG signals 2019 ,		7
92	Offline decoding of upper limb muscle synergies from EEG slow cortical potentials. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 3594-7	0.9	7
91	Cortical current density vs. surface EEG for event-related potential-based Brain-Computer Interface 2011 ,		7
90	Evaluation of proportional and discrete shared control paradigms for low resolution user inputs 2011 ,		7
89	A comparative psychophysical and EEG study of different feedback modalities for HRI 2008 ,		7

88	Preliminary experimentation on vibrotactile feedback in the context of mu-rhythm based BCI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 4739-42		7
87	The OPPORTUNITY Framework and Data Processing Ecosystem for Opportunistic Activity and Context Recognition. <i>International Journal of Sensors, Wireless Communications and Control</i> , 2012 , 1, 102-125	0.4	7
86	Spatial filters yield stable features for error-related potentials across conditions 2016 ,		7
85	Differential contributions of subthalamic beta rhythms and 1/f broadband activity to motor symptoms in Parkinson's disease. <i>Npj Parkinsons Disease</i> , 2018 , 4, 32	9.7	7
84	ROS-health: An open-source framework for neurorobotics 2018 ,		6
83	Endogenous Control of Powered Lower-Limb Exoskeleton. <i>Biosystems and Biorobotics</i> , 2017 , 115-119	0.2	6
82	EEG correlates of active visual search during simulated driving: An exploratory study 2014 ,		6
81	Dynamic Quantification of Activity Recognition Capabilities in Opportunistic Systems 2011 ,		6
80	Bayesian plan recognition for Brain-Computer Interfaces 2009 ,		6
79	Minimizing calibration time using inter-subject information of single-trial recognition of error potentials in brain-computer interfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 6369-72	0.9	6
78	Learning reaching strategies through reinforcement for a sensor-based manipulator. <i>Neural Networks</i> , 1998 , 11, 359-76	9.1	6
77	Imagined speech can be decoded from low- and cross-frequency intracranial EEG features.. <i>Nature Communications</i> , 2022 , 13, 48	17.4	6
76	Spatial covariance improves BCI performance for late ERPs components with high temporal variability. <i>Journal of Neural Engineering</i> , 2020 , 17, 036030	5	6
75	Brain-Computer Interfaces for Post-Stroke Motor Rehabilitation: A Meta-Analysis		6
74	Quantifying electrode reliability during brain-computer interface operation. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 858-64	5	5
73	Brain Recording, Mind-Reading, and Neurotechnology: Ethical Issues from Consumer Devices to Brain-Based Speech Decoding. <i>Science and Engineering Ethics</i> , 2020 , 26, 2295-2311	3.1	5
72	Brain-computer interfaces for stroke rehabilitation: summary of the 2016 BCI Meeting in Asilomar. <i>Brain-Computer Interfaces</i> , 2018 , 5, 41-57	2	5
71	Brain Correlates of Lane Changing Reaction Time in Simulated Driving 2015 ,		5

70	Interaction and evaluation of an augmented virtuality assistance system for teleoperated robots 2012 ,		5
69	Brain-Computer Interfaces 2013 , 237-252		5
68	Inferring driver's turning direction through detection of error related brain activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2196-9	0.9	5
67	tDCS Modulates Motor Imagery-Related BCI Features. <i>Biosystems and Biorobotics</i> , 2013 , 647-651	0.2	5
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