

CITATION REPORT

List of articles citing

Motor imagery activates primary sensorimotor area in huma

DOI: 10.1016/s0304-3940(97)00889-6
Neuroscience Letters, 1997, 239, 65-8.

Source: <https://exaly.com/paper-pdf/28384410/citation-report.pdf>

Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
815	High-resolution ERD using realistic head geometry. 1998 , 43 Suppl, 240-1		
814	High-resolution ERD: cortical imaging of event-related desynchronization during motor imagery.		
813	Design of an EEG-based brain-computer interface (BCI) from standard components running in real-time under Windows. 1999 , 44, 12-6		33
812	Visually guided motor imagery activates sensorimotor areas in humans. <i>Neuroscience Letters</i> , 1999 , 269, 153-6	3.3	54
811	EEG-based brain-computer interface using subject-specific spatial filters. 1999 , 248-254		11
810	Event-related EEG/MEG synchronization and desynchronization: basic principles. 1999 , 110, 1842-57		4600
809	Spatiotemporal ERD/ERS patterns during voluntary movement and motor imagery. 2000 , 53, 196-8		46
808	Cerebral correlates of working memory for temporal information. 2000 , 11, 1689-93		37
807	Imagining the impossible: intact motor representations in hemiplegics. 2000 , 11, 729-32		146
806	Thinking ahead: the case for motor imagery in prospective judgements of prehension. 2000 , 74, 33-70		168
805	Mu and beta rhythm topographies during motor imagery and actual movements. 2000 , 12, 177-86		502
804	Brain oscillations control hand orthosis in a tetraplegic. <i>Neuroscience Letters</i> , 2000 , 292, 211-4	3.3	342
803	Optimal spatial filtering of single trial EEG during imagined hand movement. 2000 , 8, 441-6		1507
802	Classification of movement-related EEG in a memorized delay task experiment. 2000 , 111, 1353-65		28
801	Current trends in Graz Brain-Computer Interface (BCI) research. 2000 , 8, 216-9		316
800	The effects of self-movement, observation, and imagination on mu rhythms and readiness potentials (RP's): toward a brain-computer interface (BCI). 2000 , 8, 219-22		149
799	Real-time EEG analysis with subject-specific spatial patterns for a brain-computer interface (BCI). 2000 , 8, 447-56		254

798	Plasticity and primary motor cortex. 2000 , 23, 393-415		852
797	Motor imagery and direct brain-computer communication. 2001 , 89, 1123-1134		1035
796	Event-related desynchronization in reaction time paradigms: a comparison with event-related potentials and corticospinal excitability. 2001 , 112, 923-30		113
795	Timing and localization of movement-related spectral changes in the human peri-Rolandic cortex: intracranial recordings. 2001 , 14, 391-405		10
794	Evidence for premotor cortex activity during dynamic visuospatial imagery from single-trial functional magnetic resonance imaging and event-related slow cortical potentials. 2001 , 14, 268-83		148
793	Cortical mapping of gait in humans: a near-infrared spectroscopic topography study. 2001 , 14, 1186-92		593
792	Information transfer rate in a five-classes brain-computer interface. 2001 , 9, 283-8		262
791	Event-related beta desynchronization indicates timing of response selection in a delayed-response paradigm in humans. <i>Neuroscience Letters</i> , 2001 , 312, 149-52	3-3	74
790	Rapid prototyping of an EEG-based brain-computer interface (BCI). 2001 , 9, 49-58		204
789	Modulation of corticospinal excitability during imagined knee movements. 2001 , 33, 230-4		27
788	Involuntary motor activity in pianists evoked by music perception. 2001 , 13, 786-92		270
787	Inhibitory control of acquired motor programmes in the human brain. 2002 , 125, 404-20		214
786	Temporal accuracy of mentally simulated transport movements. 2002 , 94, 307-18		18
785	[Mental activity hand orthosis control using the EEG: a case study]. 2002 , 41, 48-52		5
784	Brain-computer interfaces for communication and control. 2002 , 113, 767-91		5133
783	A local neural classifier for the recognition of EEG patterns associated to mental tasks. 2002 , 13, 678-86		118
782	A H2150 Positron Emission Tomography Study on Mental Imagery of Movement Sequences—the Effect of Modulating Sequence Length and Direction. 2002 , 17, 999-1009		63
781	Beta electroencephalograph changes during passive movements: sensory afferences contribute to beta event-related desynchronization in humans. <i>Neuroscience Letters</i> , 2002 , 331, 29-32	3-3	120

780	Relevant EEG features for the classification of spontaneous motor-related tasks. 2002 , 86, 89-95	67
779	Magnetic oscillatory responses to lateralization changes of natural and artificial sounds in humans. 2002 , 15, 345-54	37
778	The effect of diazepam on motor cortical oscillations and corticomuscular coherence studied in man. 2003 , 546, 931-42	124
777	Movement and ERD/ERS. 2003 , 191-206	9
776	The Wadsworth Center brain-computer interface (BCI) research and development program. 2003 , 11, 204-7	148
775	Differential modulation of corticospinal excitability during observation, mental imagery and imitation of hand actions. 2004 , 42, 105-12	166
774	Is the human primary motor cortex involved in motor imagery?. 2004 , 19, 138-44	164
773	Actual and mental motor preparation and execution: a spatiotemporal ERP study. 2004 , 159, 389-99	65
772	Changes in rolandic mu rhythm during observation of a precision grip. 2004 , 41, 152-6	168
771	Brain-actuated interaction. 2004 , 159, 241-259	139
770	Phase coupling between different motor areas during tongue-movement imagery. <i>Neuroscience Letters</i> , 2004 , 369, 50-4	3-3 29
769	Estimation of cortical activity from noninvasive high-resolution EEG recordings. 2004 , 1270, 245-248	4
768	Neuromagnetic oscillatory responses related to the mirror neuron system. 2004 , 1270, 229-232	2
767	Functional connectivity during real vs imagined visuomotor tasks: an EEG study. 2004 , 15, 637-42	17
766	Cerebral and cerebellar sensorimotor plasticity following motor imagery-based mental practice of a sequential movement. 2004 , 41, 505-24	100
765	The functional significance of mu rhythms: translating "seeing" and "hearing" into "doing". 2005 , 50, 57-68	705
764	Analysis of the influence of bromazepam on cognitive performance through the visual evoked potential (P300). 2005 , 63, 228-34	7
763	The atomic hydrogen maser oscillator. 2005 , 42, S80-S89	18

762	Human communication investigated with magnetoencephalography: speech, music, and gestures. 2005 , 68, 79-120		1
761	Study on the effect of different frequency bands of EEG signals on mental tasks classification. 2005 , 2005, 5369-72		1
760	EEG-based Discrimination of Elbow/Shoulder Torques using Brain Computer Interface Algorithms: Implications for Rehabilitation. 2005 , 2005, 4134-7		5
759	Steady-state visual evoked potential (SSVEP)-based communication: impact of harmonic frequency components. 2005 , 2, 123-30		342
758	Beta rebound after different types of motor imagery in man. <i>Neuroscience Letters</i> , 2005 , 378, 156-9	3.3	202
757	Imagery of motor actions: differential effects of kinesthetic and visual-motor mode of imagery in single-trial EEG. 2005 , 25, 668-77		459
756	EEG-Based Mental Task Classification: Linear and Nonlinear Classification of Movement Imagery. 2005 , 2005, 4626-9		14
755	Seperability of four-class motor imagery data using independent components analysis. 2006 , 3, 208-16		196
754	Towards adaptive classification for BCI. 2006 , 3, R13-23		318
753	Mobile phone effects on children's event-related oscillatory EEG during an auditory memory task. 2006 , 82, 443-50		34
752	Motor-evoked potentials following imagery and limb disuse. 2006 , 116, 639-51		16
751	Oscillatory neuronal dynamics during language comprehension. 2006 , 159, 179-96		164
750	Mu rhythm (de)synchronization and EEG single-trial classification of different motor imagery tasks. 2006 , 31, 153-9		1038
749	Relationship between event-related beta synchronization and afferent inputs: analysis of finger movement and peripheral nerve stimulations. 2006 , 117, 628-36		85
748	Future prospects of ERD/ERS in the context of brain-computer interface (BCI) developments. 2006 , 159, 433-7		122
747	High-Resolution EEG and Estimation of Cortical Activity for Brain-Computer Interface Applications. 193-199		
746	Neuromodulatory effect of bromazepam on motor learning: an electroencephalographic approach. <i>Neuroscience Letters</i> , 2006 , 407, 166-70	3.3	12
745	Post-movement beta synchronization after kinesthetic illusion, active and passive movements. 2006 , 62, 321-7		25

744	Brain-controlled interfaces: movement restoration with neural prosthetics. 2006 , 52, 205-20	569
743	The emerging world of motor neuroprosthetics: a neurosurgical perspective. 2006 , 59, 1-14; discussion 1-14	108
742	Lateral somatotopic organization during imagined and prepared movements. 2006 , 95, 811-22	110
741	Kinesthetic, but not visual, motor imagery modulates corticomotor excitability. 2006 , 168, 157-64	284
740	Lateralization of unimanual and bimanual motor imagery. 2006 , 1095, 139-47	65
739	A fully on-line adaptive BCI. 2006 , 53, 1214-9	137
738	Steady-state somatosensory evoked potentials: suitable brain signals for brain-computer interfaces?. 2006 , 14, 30-7	225
737	Quantitative measure of complexity of the dynamic event-related EEG data. 2006 , 70, 263-272	5
736	The cortical activation model (CAM). 2006 , 159, 19-27	36
735	Accuracy of a Brain-Computer Interface in Subjects with Minimal Training.	2
734	Motor imagery and EEG-based control of spelling devices and neuroprostheses. 2006 , 159, 393-409	126
733	Modulation of beta oscillations in the subthalamic area during motor imagery in Parkinson's disease. 2006 , 129, 695-706	157
732	EEG features extraction for motor imagery. 2006 , 2006, 1142-5	15
731	A study on the primary motor cortex performing motor imagery task for the development of a brain-computer interface. 2007 ,	
730	Recognition of point-light biological motion: mu rhythms and mirror neuron activity. 2007 , 183, 188-94	175
729	Muscular responses during motor imagery as a function of muscle contraction types. 2007 , 66, 18-27	93
728	Event-related variations in alpha band activity during an attentional task in preadolescents: Effects of morning nutrition. 2007 , 118, 615-32	11
727	Detecting movement-related EEG change by wavelet decomposition-based neural networks trained with single thumb movement. 2007 , 118, 802-14	7

726	Rhythmic brain activities related to singing in humans. 2007 , 34, 426-34	47
725	The spatial distribution and temporal dynamics of brain regions activated during the perception of object and non-object patterns. 2007 , 34, 371-83	17
724	An expectation-maximization algorithm based Kalman smoother approach for event-related desynchronization (ERD) estimation from EEG. 2007 , 54, 1191-8	33
723	Event-Related EEG-Changes during Attempted Standing Up Task. 2007 ,	
722	Effects of pulsed and continuous wave 902 MHz mobile phone exposure on brain oscillatory activity during cognitive processing. 2007 , 28, 296-308	53
721	Application of a hybrid wavelet feature selection method in the design of a self-paced brain interface system. 2007 , 4, 11	15
720	Volitional control of neural activity: implications for brain-computer interfaces. 2007 , 579, 571-9	174
719	Phasic heart rate changes during word translation of different difficulties. 2007 , 44, 807-13	11
718	Brain oscillatory 4-30 Hz responses during a visual n-back memory task with varying memory load. 2007 , 1138, 171-7	131
717	Changes in the alpha and beta amplitudes of the central EEG during the onset, continuation, and offset of long-duration repetitive hand movements. 2007 , 1169, 44-56	65
716	EEG alpha oscillations: the inhibition-timing hypothesis. 2007 , 53, 63-88	2392
715	Study of on-line adaptive discriminant analysis for EEG-based brain computer interfaces. 2007 , 54, 550-6	112
714	Estimation of the uncertainty in time domain indices of RR time series. 2007 , 54, 556-63	1
713	Movement-specific enhancement of corticospinal excitability at subthreshold levels during motor imagery. 2007 , 179, 517-24	25
712	Study of discriminant analysis applied to motor imagery bipolar data. 2007 , 45, 61-8	27
711	EEG correlates of action observation in humans. 2008 , 21, 93-9	25
710	Comparison of DFT and lock-in amplifier features and search for optimal electrode positions in SSVEP-based BCI. 2008 , 168, 174-81	53
709	EEG and neuronavigated single-pulse TMS in the study of the observation/execution matching system: are both techniques measuring the same process?. 2008 , 175, 17-24	90

708	The development of brain-machine interface neuroprosthetic devices. 2008 , 5, 137-46		82
707	Modulation of the human mirror neuron system during cognitive activity. 2008 , 45, 896-905		50
706	Expertise in dance modulates alpha/beta event-related desynchronization during action observation. 2008 , 27, 3380-4		177
705	Short-lived brain state after cued motor imagery in naive subjects. 2008 , 28, 1419-26		48
704	Single-trial EEG source reconstruction for brain-computer interface. 2008 , 55, 1592-601		52
703	Rehabilitation with Brain-Computer Interface Systems. 2008 , 41, 58-65		131
702	Quasi-movements: a novel motor-cognitive phenomenon. 2008 , 46, 727-42		72
701	Changes in mu rhythm during action observation and execution in adults with Down syndrome: implications for action representation. <i>Neuroscience Letters</i> , 2008 , 436, 177-80	3-3	89
700	Changes in slow and fast alpha bands in subjects submitted to different amounts of functional electrostimulation. <i>Neuroscience Letters</i> , 2008 , 441, 149-52	3-3	5
699	Spatio-temporal differences in brain oxygenation between movement execution and imagery: a multichannel near-infrared spectroscopy study. 2008 , 67, 54-63		76
698	Response preparation and inhibition: the role of the cortical sensorimotor beta rhythm. 2008 , 156, 238-46		194
697	Positive behavioral and electrophysiological changes following neurofeedback training in children with autism. 2008 , 2, 557-581		73
696	3D user interfaces: new directions and perspectives. 2008 , 28, 20-36		81
695	Understanding brain connectivity from EEG data by identifying systems composed of interacting sources. 2008 , 42, 87-98		62
694	EEG-based navigation of immersing virtual environment using common spatial patterns. 2008 ,		5
693	Study of Υ production in two-photon collisions at Belle. 2008 , 32, 499-503		
692	Performance of a self-paced brain computer interface on data contaminated with eye-movement artifacts and on data recorded in a subsequent session. 2008 , 749204		6
691	Electroencephalogram (EEG) and Functional Electrical Stimulation (FES) System for Rehabilitation of Stroke Patients. 2008 ,		7

690	Constructing Ambient Intelligence. 2008,	6
689	An adaptive filter bank for motor imagery based Brain Computer Interface. 2008, 2008, 1104-7	15
688	Non-target photo images in oddball paradigm improve EEG-based personal identification rates. 2008, 2008, 4118-21	12
687	Classification of Four-Class Motor Imagery EEG Data Using Spatial Filtering. 2008,	5
686	Comparison of adaptive features with linear discriminant classifier for Brain computer Interfaces. 2008, 2008, 173-6	8
685	Cross-frequency coupling in parieto-frontal oscillatory networks during motor imagery revealed by magnetoencephalography. 2009, 3, 3-4	12
684	Repetitive Transcranial Magnetic Stimulation Affects behavior by Biasing Endogenous Cortical Oscillations. 2009, 3, 14	69
683	Adaptive estimation of EEG-rhythms for event classification. 2009,	
682	EEG-based real-time dynamic neuroimaging. 2009, 2009, 5385-8	1
681	Discriminative FilterBank selection and EEG information fusion for Brain Computer Interface. 2009,	4
680	PHASE INTERVAL VALUE ANALYSIS FOR THE MOTOR IMAGERY TASK IN BCI. 2009, 18, 1441-1452	6
679	Neurofeedback Training for BCI Control. 2009, 65-78	26
678	Discrimination of motor imagery-induced EEG patterns in patients with complete spinal cord injury. 2009, 104180	50
677	Classification of mental task from EEG data using neural networks based on particle swarm optimization. 2009, 72, 1121-1130	104
676	A prior neurophysiologic knowledge free tensor-based scheme for single trial EEG classification. 2009, 17, 107-15	71
675	Enhanced mu rhythm extraction using blind source separation and wavelet transform. 2009, 56, 2024-34	28
674	Gender differences in the mu rhythm during empathy for pain: an electroencephalographic study. 2009, 1251, 176-84	126
673	EEG study of the mirror neuron system in children with high functioning autism. 2009, 1304, 113-21	151

672	Cognitive motor processes: the role of motor imagery in the study of motor representations. 2009 , 60, 306-26	523
671	Brain activity during visual versus kinesthetic imagery: an fMRI study. 2009 , 30, 2157-72	340
670	Prospects of brain-machine interfaces for space system control. 2009 , 64, 448-456	23
669	Neurofeedback-based motor imagery training for brain-computer interface (BCI). 2009 , 179, 150-6	149
668	Motor imagery and action observation: modulation of sensorimotor brain rhythms during mental control of a brain-computer interface. 2009 , 120, 239-47	271
667	Feature Selection for Brain-Computer Interface. 2009 , 318-321	2
666	A new discriminative common spatial pattern method for motor imagery brain-computer interfaces. 2009 , 56, 2730-3	182
665	Interpreting single trial data using groupwise regularisation. 2009 , 46, 665-76	33
664	Brain Signals for Brain-Computer Interfaces. 2009 , 29-46	7
663	Feasibility of a new application of noninvasive Brain Computer Interface (BCI): a case study of training for recovery of volitional motor control after stroke. 2009 , 33, 203-11	199
662	EEG-based brain-computer communication. 2010 , 203-212	1
661	Contribution of the primary motor cortex to motor imagery. 2010 , 31-46	7
660	Electroencephalographic characteristics during motor imagery. 2010 , 65-82	14
659	Parallel Factor Analysis of Driver's EEG in Lane Change Maneuver for Cooperative Driver Assistance Systems. 2010 , 43, 105-110	
658	Neuropsychological evidence for visual- and motor-based affordance: effects of reference frame and object-hand congruence. 2010 , 36, 659-70	16
657	Practicing a Motor Task in a Lucid Dream Enhances Subsequent Performance: A Pilot Study. 2010 , 24, 157-167	37
656	Detection of Recognition and Judgment from Parallel Factor Analysis of Driver's EEG on the Lane Change(Mechanical Systems). 2010 , 76, 3461-3469	1
655	Event-related desynchronization of motor cortical oscillations in patients with multiple system atrophy. 2010 , 206, 1-13	8

654	Attention modulates motor system activation during action observation: evidence for inhibitory rebound. 2010 , 205, 235-49	49
653	Fast set-up asynchronous brain-switch based on detection of foot motor imagery in 1-channel EEG. 2010 , 48, 229-33	89
652	EEG activations during intentional inhibition of voluntary action: an electrophysiological correlate of self-control?. 2010 , 48, 619-26	36
651	Bilateral adaptation and neurofeedback for brain computer interface system. 2010 , 193, 373-9	48
650	Brain oscillatory activity during motor imagery in EEG-fMRI coregistration. 2010 , 28, 1403-12	66
649	Regularized tensor discriminant analysis for single trial EEG classification in BCI. 2010 , 31, 619-628	19
648	Analysis of sensorimotor rhythms for the implementation of a brain switch for healthy subjects. 2010 , 5, 15-20	57
647	EEG-based estimation of mental fatigue by using KPCA-BMM and complexity parameters. 2010 , 5, 124-130	90
646	Mental imagery of speech and movement implicates the dynamics of internal forward models. 2010 , 1, 166	141
645	Utility of independent component analysis for interpretation of intracranial EEG. 2010 , 4, 184	28
644	Temporal coding of brain patterns for direct limb control in humans. 2010 , 4,	38
643	Signal Processing for Non-Invasive Brain Biomarkers of Sensorimotor Performance and Brain Monitoring. 2010 ,	1
642	A novel technique for phase synchrony measurement from the complex motor imaginary potential of combined body and limb action. 2010 , 7, 046008	13
641	Syntactic unification operations are reflected in oscillatory dynamics during on-line sentence comprehension. 2010 , 22, 1333-47	117
640	Characteristics of motor imagery based EEG-brain computer interface using combined cue and neuro-feedback. 2010 , 2010, 4238-41	1
639	A Study on the impact of spectral variability in brain-computer interface. 2010 ,	3
638	Mirrored high gamma cortical activity during finger tap imitation. 2010 , 2010, 4148-51	
637	Neural mechanisms underlying action observation in adults with Down syndrome. 2010 , 115, 113-27	7

636	Beta-band activity during motor planning reflects response uncertainty. 2010 , 30, 11270-7		201
635	Electroencephalography Based Feature Selection for Multi-intelligence Activity. 2010 ,		
634	Statistical Pattern Recognition and Machine Learning in Brain-Computer Interfaces. 2010 , 335-367		7
633	Neuromagnetic imaging of movement-related cortical oscillations in children and adults: age predicts post-movement beta rebound. 2010 , 51, 792-807		128
632	Conflict processing in the anterior cingulate cortex constrains response priming. 2010 , 50, 1599-605		26
631	Post-acute stroke patients use brain-computer interface to activate electrical stimulation. 2010 , 2010, 4234-7		12
630	Post-movement beta rebound abnormality as indicator of mirror neuron system dysfunction in autistic spectrum disorder: an MEG study. <i>Neuroscience Letters</i> , 2010 , 478, 141-5	3-3	42
629	An extended motor network generates beta and gamma oscillatory perturbations during development. 2010 , 73, 75-84		80
628	Localisation of cognitive tasks used in EEG-based BCIs. 2010 , 121, 1481-1493		15
627	Classifying motor imagery in presence of speech. 2010 ,		2
626	A Practical Guide to Brain-Computer Interfacing with BCI2000. 2010 ,		99
625	Brain-Computer Interfaces. 2010 ,		132
624	Noninvasive Brain-Computer Interface-based control of humanoid navigation. 2011 ,		2
623	Feature extraction and classification of Event-related EEG based on Kolmogorov entropy. 2011 ,		1
622	A Two-fold classification for composite decision about localized arm movement from EEG by SVM and QDA techniques. 2011 ,		12
621	An architecture for 1-bit localized compressive sensing with applications to EEG. 2011 ,		5
620	Relating MEG measured motor cortical oscillations to resting G-aminobutyric acid (GABA) concentration. 2011 , 55, 616-21		203
619	The role of GABAergic modulation in motor function related neuronal network activity. 2011 , 56, 1506-10		144

618	Motor and attentional mechanisms involved in social interaction--evidence from mu and alpha EEG suppression. 2011 , 58, 895-904	117
617	Performance evaluation of a motor-imagery-based EEG-Brain computer interface using a combined cue with heterogeneous training data in BCI-Naive subjects. 2011 , 10, 91	5
616	Advances in Computing and Communications. 2011 ,	1
615	Application of linearly-constrained prewhitening beamformer to reconstruction of highly correlated EEG signal sources. 2011 ,	3
614	Foundations of Augmented Cognition. Directing the Future of Adaptive Systems. 2011 ,	5
613	Movement imagery-related lateralization of event-related (de)synchronization (ERD/ERS): motor-imagery duration effects. 2011 , 122, 567-577	108
612	Effect of volitional relaxation and motor imagery on F wave and MEP: do these tasks affect excitability of the spinal or cortical motor neurons?. 2011 , 122, 1405-10	17
611	Trained modulation of sensorimotor rhythms can affect reaction time. 2011 , 122, 1820-6	36
610	Impact of auditory distraction on user performance in a brain-computer interface driven by different mental tasks. 2011 , 122, 2003-9	17
609	Reduced movement-related β desynchronisation in juvenile myoclonic epilepsy: a MEG study of task specific cortical modulation. 2011 , 122, 2128-38	16
608	Performance analysis of left/right hand movement classification from EEG signal by intelligent algorithms. 2011 ,	31
607	Bedside detection of awareness in the vegetative state: a cohort study. 2011 , 378, 2088-94	440
606	. 2011 ,	10
605	Beyond ERPs:. 2011 ,	5
604	Modulation of event-related desynchronization during motor imagery with transcranial direct current stimulation in a patient with severe hemiparetic stroke: a case report. 2011 , 60, 114-8	12
603	Case 2 β Imagery Assessment and Training with QEEG. 2011 , 47-70	
602	First Steps Toward a Motor Imagery Based Stroke BCI: New Strategy to Set up a Classifier. 2011 , 5, 86	74
601	Controlling Devices Using Biological Signals. 2011 , 8, 30	1

600	Alpha band oscillations correlate with illusory self-location induced by virtual reality. 2011 , 33, 1935-43	52
599	Neural correlates of action observation and execution in 14-month-old infants: an event-related EEG desynchronization study. 2011 , 14, 474-80	116
598	Ageing affects event-related potentials and brain oscillations: a behavioral and electrophysiological study using a haptic recognition memory task. 2011 , 49, 3967-80	19
597	Kinesthetic motor imagery modulates intermuscular coherence. 2011 , 19, 638-43	3
596	The role of the left inferior frontal gyrus in social perception: an rTMS study. 2011 , 1383, 196-205	54
595	EEG controlled neuromuscular electrical stimulation of the upper limb for stroke patients. 2011 , 6, 71	3
594	Classification of selective attention to auditory stimuli: toward vision-free brain-computer interfacing. 2011 , 197, 180-5	79
593	Human-Computer Interaction. Interaction Techniques and Environments. 2011 ,	2
592	An Effective Classification Approach for EEG-based BCI System. 2011 ,	1
591	Bispectrum analysis of EEG during observation and imagination of hand movement. 2011 ,	3
590	Adaptive tracking of discriminative frequency components in electroencephalograms for a robust brain-computer interface. 2011 , 8, 036007	22
589	Time-Domain Second-Harmonic Generation of Primary Lamb-Wave Propagation in an Elastic Plate. 2011 , 28, 074301	2
588	Smart sensor design and analysis of brain machine interface using labview. 2011 ,	3
587	Non-Manual Control Devices. 2011 , 233-250	4
586	Advances in Cognitive Neurodynamics (II). 2011 ,	
585	A vision-free brain-computer interface (BCI) paradigm based on auditory selective attention. 2011 , 2011, 3684-7	6
584	SOURCES OF EEG ACTIVITY MOST RELEVANT TO PERFORMANCE OF BRAIN-COMPUTER INTERFACE BASED ON MOTOR IMAGERY. 2012 , 22, 21-37	17
583	Pre-stimulus sensorimotor rhythms influence brain-computer interface classification performance. 2012 , 20, 653-62	38

582	BCIs That Use Sensorimotor Rhythms. 2012 , 228-240	11
581	Coding of digit displacement by cell spiking and network oscillations in the monkey sensorimotor cortex. 2012 , 108, 3342-52	7
580	A predictive speller controlled by a brain-computer interface based on motor imagery. 2012 , 19, 1-25	25
579	Neural activation and functional connectivity during motor imagery of bimanual everyday actions. 2012 , 7, e38506	24
578	Electrophysiological signatures of intentional social coordination in the 10-12 Hz range. 2012 , 59, 1795-803	83
577	EEG controlled remote robotic system from motor imagery classification. 2012 ,	7
576	Study of inter-session variability of long term memory and complexity of EEG signals. 2012 ,	1
575	Functional connectivity modulation during the maintenance of motion information in working memory: importance of the familiarity of the visual context. 2012 , 212, 49-58	8
574	Temporal windowing in CSP method for multi-class Motor Imagery Classification. 2012 ,	4
573	Feasibility and test-retest reliability of an electroencephalography-based brain mapping system in children with cerebral palsy: a preliminary investigation. 2012 , 93, 882-8	10
572	The effect of distinct mental strategies on classification performance for brain-computer interfaces. 2012 , 84, 86-94	87
571	Wavelet packet-based independent component analysis for feature extraction from motor imagery EEG of complex movements. 2012 , 123, 1779-88	10
570	The correlation between motor impairments and event-related desynchronization during motor imagery in ALS patients. 2012 , 13, 66	29
569	Peripheral electrical stimulation triggered by self-paced detection of motor intention enhances motor evoked potentials. 2012 , 20, 595-604	108
568	Multisensory brain mechanisms of bodily self-consciousness. 2012 , 13, 556-71	653
567	Effects of normal aging on event-related potentials and oscillatory brain activity during a haptic repetition priming task. 2012 , 60, 7-20	20
566	Cognitive alterations in motor imagery process after left hemispheric ischemic stroke. 2012 , 7, e42922	28
565	A Combination of Pre- and Postprocessing Techniques to Enhance Self-Paced BCIs. 2012 , 2012, 1-10	6

564	Source Detection and Functional Connectivity of the Sensorimotor Cortex during Actual and Imaginary Limb Movement: A Preliminary Study on the Implementation of eConnectome in Motor Imagery Protocols. 2012 , 2012, 1-10	17
563	EEG alpha activity reflects motor preparation rather than the mode of action selection. 2012 , 6, 59	45
562	Brain Activity during the Observation, Imagery, and Execution of Tool Use: An fNIRS/EEG Study. 2012 , 01,	9
561	Seeing touch and pain in a stranger modulates the cortical responses elicited by somatosensory but not auditory stimulation. 2012 , 33, 2873-84	18
560	Neural correlates of action understanding in infants: influence of motor experience. 2012 , 2, 237-42	61
559	The use of P300-based BCIs in amyotrophic lateral sclerosis: from augmentative and alternative communication to cognitive assessment. 2012 , 2, 479-98	45
558	Active training paradigm for motor imagery BCI. 2012 , 219, 245-54	25
557	Regional brain wave activity changes associated with fatigue. 2012 , 49, 574-82	183
556	Adaptive estimation of EEG-rhythms for optimal band identification in BCI. 2012 , 203, 163-72	30
555	Brain plasticity in the motor network is correlated with disease progression in amyotrophic lateral sclerosis. 2013 , 34, 2391-401	34
554	Modulation of event-related desynchronization in robot-assisted hand performance: brain oscillatory changes in active, passive and imagined movements. 2013 , 10, 24	70
553	Automatic motor task selection via a bandit algorithm for a brain-controlled button. 2013 , 10, 016012	8
552	Event-related desynchronization and synchronization quantification in motor-related EEG by Kolmogorov entropy. 2013 , 10, 036023	18
551	Mental rotation strategies reflected in event-related (de)synchronization of β and μ power. 2013 , 50, 858-63	24
550	Detecting awareness after severe brain injury. 2013 , 14, 801-9	129
549	Real movement vs. motor imagery in healthy subjects. 2013 , 87, 35-41	19
548	Importance of baseline in event-related desynchronization during a combination task of motor imagery and motor observation. 2013 , 10, 026009	25
547	Watching object related movements modulates mirror-like activity in parietal brain regions. 2013 , 124, 1596-604	12

546	Mu rhythm suppression during the imagination of observed action. 2013 , 2013, 4310-3	2
545	Proceedings of Seventh International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2012). 2013 ,	2
544	Human-Computer Interaction and Knowledge Discovery in Complex, Unstructured, Big Data. 2013 ,	3
543	Brain and Health Informatics. 2013 ,	
542	EEG feature comparison and classification of simple and compound limb motor imagery. 2013 , 10, 106	79
541	Channel selection by Rayleigh coefficient maximization based genetic algorithm for classifying single-trial motor imagery EEG. 2013 , 121, 423-433	46
540	Mechanisms underlying cortical resonant states: implications for levodopa-induced dyskinesia. 2013 , 24, 415-29	12
539	. 2013 ,	2
538	A novel feature extraction method for motor imagery based on common spatial patterns with autoregressive parameters. 2013 ,	
537	MEG premotor abnormalities in children with Asperger's syndrome: determinants of social behavior?. 2013 , 5, 95-105	4
536	Motor-related cortical activity after cervical spinal cord injury: multifaceted EEG analysis of isometric elbow flexion contractions. 2013 , 1533, 44-51	14
535	Effects of levetiracetam on α rhythm in persons with epilepsy. 2013 , 20, 686-91	1
534	Artificial Bee Colony Based Feature Selection for Motor Imagery EEG Data. 2013 , 127-138	10
533	Detecting consciousness: a unique role for neuroimaging. 2013 , 64, 109-33	69
532	Multiple classifier system for EEG signal classification with application to brain-computer interfaces. 2013 , 23, 1319-1327	49
531	Somatosensory demands modulate muscular Beta oscillations, independent of motor demands. 2013 , 33, 10849-57	34
530	Testing for significance of phase synchronisation dynamics in the EEG. 2013 , 34, 411-32	5
529	Finding a way in: a review and practical evaluation of fMRI and EEG for detection and assessment in disorders of consciousness. 2013 , 37, 1403-19	61

528	Shared electrophysiology mechanisms of body ownership and motor imagery. 2013 , 64, 216-28	56
527	A single-switch BCI based on passive and imagined movements: toward restoring communication in minimally conscious patients. 2013 , 23, 1250037	53
526	Localized high gamma motor oscillations respond to perceived biologic motion. 2013 , 30, 299-307	9
525	Reentrant classicality of a damped system. 2013 , 103, 60007	7
524	Corticospinal Excitability Following Short-Term Motor Imagery Training of a Strength Task. 2013 , 8,	2
523	Changes in electroencephalographic activity during observation, preparation, and execution of a motor learning task. 2013 , 123, 866-75	18
522	Differential evolution with temporal difference Q-learning based feature selection for motor imagery EEG data. 2013 ,	3
521	Time-frequency analysis of EEG signals from healthy subjects allocated by gender for a subject-independent BCI-based on motor imagery. 2013 ,	2
520	High-learners present larger mid-frontal theta power and connectivity in response to incorrect performance feedback. 2013 , 33, 2029-38	56
519	Cortical lateralization in stroke patients measured by event-related potentials during motor imagery. 2013 , 8, 1701-7	3
518	Analysis of longitudinal driving behaviors during car following situation by the driver's EEG using PARAFAC. 2013 , 46, 415-422	4
517	Psychophysiology and Autonomic Responses Perspective for Advancing Hybrid Brain-Computer Interface Systems. 2013 , 38, 196-209	23
516	Mirror training to augment cross-education during resistance training: a hypothesis. 2013 , 7, 396	29
515	Review of Wireless Brain-Computer Interface Systems. 2013 ,	28
514	Control beliefs can predict the ability to up-regulate sensorimotor rhythm during neurofeedback training. 2013 , 7, 478	99
513	Learning to modulate one's own brain activity: the effect of spontaneous mental strategies. 2013 , 7, 695	113
512	Evaluation of EEG oscillatory patterns and cognitive process during simple and compound limb motor imagery. 2014 , 9, e114853	28
511	Feasibility of a hybrid brain-computer interface for advanced functional electrical therapy. 2014 , 2014, 797128	12

510	Decreased electrophysiological activity represents the conscious state of emptiness in meditation. 2014, 5, 99	46
509	Learned EEG-based brain self-regulation of motor-related oscillations during application of transcranial electric brain stimulation: feasibility and limitations. 2014, 8, 93	35
508	Winning the game: brain processes in expert, young elite and amateur table tennis players. 2014, 8, 370	19
507	Network analysis of perception-action coupling in infants. 2014, 8, 209	11
506	EEG beta suppression and low gamma modulation are different elements of human upright walking. 2014, 8, 485	125
505	Alpha band functional connectivity correlates with the performance of brain-machine interfaces to decode real and imagined movements. 2014, 8, 620	16
504	Multiple tasks and neuroimaging modalities increase the likelihood of detecting covert awareness in patients with disorders of consciousness. 2014, 8, 950	43
503	Decoding the ERD/ERS: influence of afferent input induced by a leg assistive robot. 2014, 8, 85	22
502	Executed Movement Using EEG Signals through a Naive Bayes Classifier. 2014, 5, 1082-1105	15
501	A Method for Precise Extraction of EEG Rhythmic Activities Using Multivariate Empirical Mode Decomposition and the Hilbert Transform. 2014, 1, 153-162	0
500	Effect of kinesthetic illusion elicited by tendon vibration on stroke patients. 2014, 4, 13-18	1
499	Post-switching beta synchronization reveals concomitant sensory reafferences and active inhibition processes. 2014, 271, 365-73	5
498	Processing graded feedback: electrophysiological correlates of learning from small and large errors. 2014, 26, 1180-93	35
497	BMI-based framework for teaching and evaluating robot skills. 2014,	2
496	Beta oscillations and their functional role in movement perception. 2014, 5,	11
495	A time-frequency analysis of event-related desynchronization/synchronization based on Gabor filter. 2014,	3
494	Electroencephalographic method using fast Fourier transform overlap processing for recognition of right- or left-handed elbow flexion motor imagery. 2014,	1
493	The offline feature extraction of four-class motor imagery EEG based on ICA and Wavelet-CSP. 2014,	9

492	Developing a few-channel hybrid BCI system by using motor imagery with SSVEP assist. 2014,	4
491	Human scalp potentials reflect a mixture of decision-related signals during perceptual choices. 2014, 34, 16877-89	66
490	Evaluation and comparison of effective connectivity during simple and compound limb motor imagery. 2014, 2014, 4892-5	3
489	Combining motor imagery with selective sensation toward a hybrid-modality BCI. 2014, 61, 2304-12	55
488	Different neural manifestations of two slow frequency bands in resting functional magnetic resonance imaging: a systemic survey at regional, interregional, and network levels. 2014, 4, 242-55	45
487	Metric-like formalism for matter fields coupled to 3D higher spin gravity. 2014, 31, 015003	1
486	Classification of EEG-Based Brain-Computer Interfaces. 2014, 97-106	21
485	Complexity and familiarity enhance single-trial detectability of imagined movements with electroencephalography. 2014, 125, 1556-67	17
484	Soft Computing in Industrial Applications. 2014,	2
483	Brain-Computer Interface Based on Motor Imagery: The Most Relevant Sources of Electrical Brain Activity. 2014, 153-163	1
482	Cortical effects of user training in a motor imagery based brain-computer interface measured by fNIRS and EEG. 2014, 85 Pt 1, 432-44	119
481	Toward brain-computer interface based wheelchair control utilizing tactually-evoked event-related potentials. 2014, 11, 7	89
480	When up brings you down: The effects of imagined vertical movements on motivation, performance, and consumer behavior. 2014, 24, 271-283	17
479	A tensor-based scheme for stroke patients' motor imagery EEG analysis in BCI-FES rehabilitation training. 2014, 222, 238-49	40
478	Low frequency mu-like activity characterizes cortical rhythms in epilepsy due to ring chromosome 20. 2014, 125, 239-49	19
477	Near-infrared spectroscopy based neurofeedback training increases specific motor imagery related cortical activation compared to sham feedback. 2014, 95, 21-30	72
476	Classification of Mental Task Based on EEG Processing Using Self Organising Feature Map. 2014,	5
475	Wedge MUSIC: a novel approach to examine experimental differences of brain source connectivity patterns from EEG/MEG data. 2014, 101, 610-24	8

474	Motor imagery-based brain activity parallels that of motor execution: evidence from magnetic source imaging of cortical oscillations. 2014 , 1588, 81-91		56
473	Electrophysiological correlates of mental navigation in blind and sighted people. 2014 , 273, 106-15		13
472	A noninvasive brain computer interface using visually-induced near-infrared spectroscopy responses. <i>Neuroscience Letters</i> , 2014 , 580, 22-6	3-3	9
471	Localization of brain electrical activity sources and hemodynamic activity foci during motor imagery. 2014 , 40, 273-283		8
470	Revealing spatio-spectral electroencephalographic dynamics of musical mode and tempo perception by independent component analysis. 2014 , 11, 18		14
469	Working memory modulates neural efficiency over motor components during a novel action planning task: an EEG study. 2014 , 260, 1-7		20
468	Changes in hemodynamic signals accompanying motor imagery and motor execution of swallowing: a near-infrared spectroscopy study. 2014 , 93 Pt 1, 1-10		28
467	Cortical mechanisms underlying the organization of goal-directed actions and mirror neuron-based action understanding. 2014 , 94, 655-706		285
466	Visuo-motor coordination ability predicts performance with brain-computer interfaces controlled by modulation of sensorimotor rhythms (SMR). 2014 , 8, 574		34
465	Prestimulus frontal-parietal coherence predicts auditory detection performance in rats. 2014 , 111, 1986-2000		8
464	Brain computer interface: A review. 2015 ,		14
463	Modulation of the 20-Hz motor-cortex rhythm to passive movement and tactile stimulation. 2015 , 5, e00328		20
462	Transcranial magnetic stimulation for individual identification of the best electrode position for a motor imagery-based brain-computer interface. 2015 , 12, 71		4
461	Phasic stabilization of motor output after auditory and visual distractors. 2015 , 36, 5168-82		12
460	14. An Integrative Framework for Tailoring Virtual Reality Based Motor Rehabilitation After Stroke. 2015 , 244-261		
459	Hemodynamic Signal Changes Accompanying Execution and Imagery of Swallowing in Patients with Dysphagia: A Multiple Single-Case Near-Infrared Spectroscopy Study. 2015 , 6, 151		24
458	3D visualization of movements can amplify motor cortex activation during subsequent motor imagery. 2015 , 9, 463		22
457	Advancing brain-machine interfaces: moving beyond linear state space models. 2015 , 9, 108		12

456	Voluntary Modulation of Hemodynamic Responses in Swallowing Related Motor Areas: A Near-Infrared Spectroscopy-Based Neurofeedback Study. 2015 , 10, e0143314	16
455	The Study of Object-Oriented Motor Imagery Based on EEG Suppression. 2015 , 10, e0144256	14
454	Grasping actions and social interaction: neural bases and anatomical circuitry in the monkey. 2015 , 6, 973	12
453	Brain oscillatory signatures of motor tasks. 2015 , 113, 3663-82	51
452	EEG imaging of toddlers during dyadic turn-taking: Mu-rhythm modulation while producing or observing social actions. 2015 , 112, 52-60	29
451	Distinctive laterality of neural networks supporting action understanding in left- and right-handed individuals: An EEG coherence study. 2015 , 75, 20-9	10
450	Determination of appropriate imagery task to discriminate ERD of "Pinch" and "Hold" movements in healthy participants and stroke patients. 2015 , 2015, 4598-601	4
449	Baby steps: investigating the development of perceptual-motor couplings in infancy. 2015 , 18, 270-80	59
448	Effects of training pre-movement sensorimotor rhythms on behavioral performance. 2015 , 12, 066021	25
447	An EEG study on the somatotopic organisation of sensorimotor cortex activation during action execution and observation in infancy. 2015 , 15, 1-10	27
446	An Effect-Size Based Channel Selection Algorithm for Mental Task Classification in Brain Computer Interface. 2015 ,	6
445	THINK. 2015 ,	5
444	Early Social Experience Affects Neural Activity to Affiliative Facial Gestures in Newborn Nonhuman Primates. 2015 , 37, 243-52	45
443	Short-term kinesthetic training for sensorimotor rhythms: effects in experts and amateurs. 2015 , 47, 312-8	6
442	Using functional magnetic resonance imaging and electroencephalography to detect consciousness after severe brain injury. 2015 , 127, 277-93	13
441	EEG based evaluation of stereoscopic 3D displays for viewer discomfort. 2015 , 14, 21	24
440	Resting-state sensorimotor rhythm (SMR) power predicts the ability to up-regulate SMR in an EEG-instrumental conditioning paradigm. 2015 , 126, 2068-77	38
439	An overview of brain computer interface. 2015 ,	3

438	Motor skill failure or flow-experience? Functional brain asymmetry and brain connectivity in elite and amateur table tennis players. 2015 , 105, 95-105	29
437	Alternative Classification Techniques for Brain-Computer Interfaces for Smart Sensor Manufacturing Environments. 2015 , 48, 680-685	6
436	Brain-Computer Interface as Networking Entity in Body Area Networks. 2015 , 274-285	3
435	Future Directions for Brain-Machine Interfacing Technology. 2015 , 3-18	
434	Encoding of point of view during action observation in the local field potentials of macaque area F5. 2015 , 41, 466-76	17
433	Wired/Wireless Internet Communications. 2015 ,	3
432	Unifying Blind Separation and Clustering for Resting-State EEG/MEG Functional Connectivity Analysis. 2015 , 27, 1373-404	6
431	Spectra of infant EEG within the first year of life: A pilot study. 2015 , 2015, 4753-6	
430	The influence of action possibility and end-state comfort on motor imagery of manual action sequences. 2015 , 101, 12-6	3
429	Expert-novice differences in SMR activity during dart throwing. 2015 , 110, 212-8	34
428	Action observation and motor imagery in performance of complex movements: evidence from EEG and kinematics analysis. 2015 , 281, 290-300	44
427	A hybrid NIRS-EEG system for self-paced brain computer interface with online motor imagery. 2015 , 244, 26-32	82
426	Enhancing Hebbian Learning to Control Brain Oscillatory Activity. 2015 , 25, 2409-15	37
425	Memory traces of long-range coordinated oscillations in the sleeping human brain. 2015 , 36, 67-84	13
424	Dysesthesia symptoms produced by sensorimotor incongruence in healthy volunteers: an electroencephalogram study. 2016 , 9, 1197-1204	9
423	Detecting the Intention to Move Upper Limbs from Electroencephalographic Brain Signals. 2016 , 2016, 3195373	10
422	EEG-Based BCI System Using Adaptive Features Extraction and Classification Procedures. 2016 , 2016, 4562601	14
421	Motor Imagery Classification Using Mu and Beta Rhythms of EEG with Strong Uncorrelating Transform Based Complex Common Spatial Patterns. 2016 , 2016, 1489692	40

420	Brain State-Dependent Closed-Loop Modulation of Paired Associative Stimulation Controlled by Sensorimotor Desynchronization. 2016 , 10, 115	28
419	Effect of the Hand-Omitted Tool Motion on mu Rhythm Suppression. 2016 , 10, 266	5
418	Amplitude of Sensorimotor Mu Rhythm Is Correlated with BOLD from Multiple Brain Regions: A Simultaneous EEG-fMRI Study. 2016 , 10, 364	26
417	Functional Equivalence of Imagined vs. Real Performance of an Inhibitory Task: An EEG/ERP Study. 2016 , 10, 467	18
416	A Wearable Channel Selection-Based Brain-Computer Interface for Motor Imagery Detection. 2016 , 16, 213	18
415	Decoding the Attentional Demands of Gait through EEG Gamma Band Features. 2016 , 11, e0154136	30
414	Entropy-based EEG time interval selection for improving motor imagery classification. 2016 ,	0
413	Digital mirror box: An interactive hand-motor BMI rehabilitation tool for stroke patients. 2016 ,	3
412	Sound imagery contributes to foot Mi-based BCI even through it does not influence on the sensorimotor rhythms. 2016 ,	1
411	Improving the discrimination of hand motor imagery via virtual reality based visual guidance. 2016 , 132, 63-74	35
410	Electroencephalographic Motor Imagery Brain Connectivity Analysis for BCI: A Review. 2016 , 28, 999-1041	106
409	When the brain simulates stopping: Neural activity recorded during real and imagined stop-signal tasks. 2016 , 16, 825-35	15
408	Brain oscillations track the formation of episodic memories in the real world. 2016 , 143, 256-266	30
407	Inferior frontal gyrus links visual and motor cortices during a visuomotor precision grip force task. 2016 , 1650, 252-266	22
406	EEG pattern decoding of rhythmic individual finger imaginary movements of one hand. 2016 , 42, 32-42	10
405	Motor priming in virtual reality can augment motor-imagery training efficacy in restorative brain-computer interaction: a within-subject analysis. 2016 , 13, 69	57
404	Compliant finger sensor for sensorimotor studies in MEG and MR environment. 2016 , 25, 075030	2
403	Kinesthetic motor imagery training modulates frontal midline theta during imagination of a dart throw. 2016 , 110, 137-145	12

402	Classification of imagery motor EEG data with wavelet denoising and features selection. 2016 ,	9
401	High Working Memory Load Increases Intracortical Inhibition in Primary Motor Cortex and Diminishes the Motor Affordance Effect. 2016 , 36, 5544-55	21
400	From classic motor imagery to complex movement intention decoding: The noninvasive Graz-BCI approach. 2016 , 228, 39-70	42
399	EEG and behavioural correlates of different forms of motor imagery during action observation in rhythmical actions. 2016 , 106, 90-103	40
398	Relations between infants' emerging reach-grasp competence and event-related desynchronization in EEG. 2016 , 19, 50-62	71
397	EEG frequency analysis of cortical brain activities induced by effect of light touch. 2016 , 234, 1429-40	12
396	Can you hear me yet? An intracranial investigation of speech and non-speech audiovisual interactions in human cortex. 2016 , 31, 284-302	8
395	The changes in the hemodynamic activity of the brain during motor imagery training with the use of brain-computer interface. 2016 , 42, 1-12	4
394	Brain State-Dependent Transcranial Magnetic Closed-Loop Stimulation Controlled by Sensorimotor Desynchronization Induces Robust Increase of Corticospinal Excitability. 2016 , 9, 415-424	68
393	Neurofeedback training with a motor imagery-based BCI: neurocognitive improvements and EEG changes in the elderly. 2016 , 54, 1655-1666	33
392	Brain Network Connectivity and Topological Analysis During Voluntary Arm Movements. 2016 , 47, 276-290	12
391	Random forests in non-invasive sensorimotor rhythm brain-computer interfaces: a practical and convenient non-linear classifier. 2016 , 61, 77-86	51
390	Facilitating motor imagery-based brain-computer interface for stroke patients using passive movement. 2017 , 28, 3259-3272	27
389	Multi-class grasping classifiers using EEG data and a common spatial pattern filter. 2017 , 31, 468-481	0
388	Brain electrical activity signatures during performance of the Multisource Interference Task. 2017 , 54, 874-881	13
387	Cortical activity predicts good variation in human motor output. 2017 , 235, 1139-1147	2
386	A spatial-frequency-temporal optimized feature sparse representation-based classification method for motor imagery EEG pattern recognition. 2017 , 55, 1589-1603	29
385	EEG beta-power changes reflect motor involvement in abstract action language processing. 2017 , 168, 95-105	17

384	Transitive Versus Intransitive Complex Gesture Representation: A Comparison Between Execution, Observation and Imagination by fNIRS. 2017 , 42, 179-191	12
383	Sound-Making Actions Lead to Immediate Plastic Changes of Neuromagnetic Evoked Responses and Induced β Band Oscillations during Perception. 2017 , 37, 5948-5959	24
382	The functional role of post-movement beta oscillations in motor termination. 2017 , 222, 3075-3086	39
381	Modulation of motor cortex inhibition during motor imagery. 2017 , 117, 1776-1784	13
380	A Stimulus-Independent Hybrid BCI Based on Motor Imagery and Somatosensory Attentional Orientation. 2017 , 25, 1674-1682	26
379	Diminished modulation of preparatory sensorimotor mu rhythm predicts attention-deficit/hyperactivity disorder severity. 2017 , 47, 1947-1956	12
378	Cortical and subcortical mechanisms of brain-machine interfaces. 2017 , 38, 2971-2989	23
377	EEG-Based Strategies to Detect Motor Imagery for Control and Rehabilitation. 2017 , 25, 392-401	111
376	Designing an Interval Type-2 Fuzzy Logic System for Handling Uncertainty Effects in Brain-Computer Interface Classification of Motor Imagery Induced EEG Patterns. 2017 , 25, 29-42	23
375	A Single-Trial Multiclass Classification of Various Motor Imagery Tasks for EEG-Based Brain-Computer Interface Communication. 2017 , 100, 18-26	1
374	Short progressive muscle relaxation or motor coordination training does not increase performance in a brain-computer interface based on sensorimotor rhythms (SMR). 2017 , 121, 29-37	8
373	General Concepts on Electroencephalography-Based Brain-Computer Interface Systems. 2017 , 42, 170-188	1
372	Effects of illusory kinesthesia by tendon vibratory stimulation on the postoperative neural activities of distal radius fracture patients. 2017 , 28, 1144-1149	7
371	On the contribution of motor planning to the retroactive cuing benefit in working memory: Evidence by mu and beta oscillatory activity in the EEG. 2017 , 162, 73-85	24
370	Task-induced frequency modulation features for brain-computer interfacing. 2017 , 14, 056015	5
369	Cognitive strategies in the mental rotation task revealed by EEG spectral power. 2017 , 118, 1-18	21
368	Altered modulation of sensorimotor rhythms with chronic paralysis. 2017 , 118, 2412-2420	9
367	White Matter Connectivity Pattern Associate with Characteristics of Scalp EEG Signals. 2017 , 30, 797-809	3

366	Brain Computer Interfaces. 2017 , 850-869	1
365	Restricted exhaustive search for frequency band selection in motor imagery classification. 2017 ,	3
364	Exploring the heterogeneity of neural social indices for genetically distinct etiologies of autism. 2017 , 9, 24	14
363	EEG-based motor imagery classification using subject-specific spatio-spectral features. 2017 ,	4
362	Classification of multi-class motor imagery EEG using four band common spatial pattern. 2017 , 2017, 1034-1037	13
361	Cortical oscillatory dynamics of tactile selective sensation - for a novel type of somatosensory Brain-computer Interface. 2017 , 2017, 1656-1659	
360	Improving the efficiency of an EEG-based brain computer interface using Filter Bank Common Spatial Pattern. 2017 ,	2
359	Frequency peak features for low-channel classification in motor imagery paradigms. 2017 ,	
358	Application of Phase Space Reconstruction in a Few-Channel EEG-NIRS Bimodal Brain-Computer Interface System. 2017 ,	1
357	A Hybrid FPGA-Based System for EEG- and EMG-Based Online Movement Prediction. 2017 , 17,	22
356	Transcallosal Inhibition during Motor Imagery: Analysis of a Neural Mass Model. 2017 , 11, 57	7
355	Resting-State Fluctuations of EEG Sensorimotor Rhythm Reflect BOLD Activities in the Pericentral Areas: A Simultaneous EEG-fMRI Study. 2017 , 11, 356	16
354	Affective Aspects of Perceived Loss of Control and Potential Implications for Brain-Computer Interfaces. 2017 , 11, 370	2
353	Changes in Electroencephalography Complexity using a Brain Computer Interface-Motor Observation Training in Chronic Stroke Patients: A Fuzzy Approximate Entropy Analysis. 2017 , 11, 444	20
352	Enhanced Motor Imagery-Based BCI Performance via Tactile Stimulation on Unilateral Hand. 2017 , 11, 585	20
351	High Amplitude EEG Motor Potential during Repetitive Foot Movement: Possible Use and Challenges for Futuristic BCIs That Restore Mobility after Spinal Cord Injury. 2017 , 11, 362	7
350	Relevant Feature Integration and Extraction for Single-Trial Motor Imagery Classification. 2017 , 11, 371	6
349	Mental Task Evaluation for Hybrid NIRS-EEG Brain-Computer Interfaces. 2017 , 2017, 3524208	14

348	Progress in EEG-Based Brain Robot Interaction Systems. 2017 , 2017, 1742862	31
347	Robotic devices and brain-machine interfaces for hand rehabilitation post-stroke. 2017 , 49, 449-460	33
346	Hemisphere specific EEG related to alternate nostril yoga breathing. 2017 , 10, 306	13
345	Understanding Neural Mechanisms of Action Observation for Improving Human Motor Skill Acquisition. 2017 ,	
344	Neuroscience-Based Rehabilitation for Stroke Patients. 2017 ,	
343	Covert Verb Reading Contributes to Signal Classification of Motor Imagery in BCI. 2018 , 26, 45-50	5
342	Experience modulates motor imagery-based brain activity. 2018 , 47, 1221-1229	20
341	Dendrite morphological neural networks for motor task recognition from electroencephalographic signals. 2018 , 44, 12-24	21
340	Deep learning for hybrid EEG-fNIRS brain-computer interface: application to motor imagery classification. 2018 , 15, 036028	80
339	Performance of Brain-Computer Interfacing Based on Tactile Selective Sensation and Motor Imagery. 2018 , 26, 60-68	8
338	Event-related desynchronization of mu and beta oscillations during the processing of novel tool names. 2018 , 177-178, 44-55	15
337	Recruitment of Additional Corticospinal Pathways in the Human Brain with State-Dependent Paired Associative Stimulation. 2018 , 38, 1396-1407	25
336	Comparison of EEG signal decomposition methods in classification of motor-imagery BCI. 2018 , 77, 21305-21327	71
335	Discrimination of four class simple limb motor imagery movements for brain-computer interface. 2018 , 44, 181-190	10
334	EEG alpha activity during imagining creative moves in soccer decision-making situations. 2018 , 114, 118-124	31
333	Characterization of EEG signals revealing covert cognition in the injured brain. 2018 , 141, 1404-1421	49
332	Investigating the Role of Alpha and Beta Rhythms in Functional Motor Networks. 2018 , 378, 54-70	26
331	No-report Paradigmatic Ascription of the Minimally Conscious State: Neural Signals as a Communicative Means for Operational Diagnostic Criteria. 2018 , 28, 173-189	

330	Can graph metrics be used for EEG-BCIs based on hand motor imagery?. 2018 , 40, 359-365	28
329	Modulation of sensorimotor rhythms for brain-computer interface using motor imagery with online feedback. 2018 , 12, 557-564	10
328	Intracranial source activity (eLORETA) related to scalp-level asymmetry scores and depression status. 2018 , 55, e13019	26
327	Decoding Covert Somatosensory Attention by a BCI System Calibrated With Tactile Sensation. 2018 , 65, 1689-1695	6
326	Action observation facilitates motor cortical activity in patients with stroke and hemiplegia. 2018 , 133, 7-14	31
325	Decoding spoken phonemes from sensorimotor cortex with high-density ECoG grids. 2018 , 180, 301-311	44
324	As above, so below? Towards understanding inverse models in BCI. 2018 , 15, 012001	3
323	EEG Signal-Processing Framework to Obtain High-Quality Brain Waves from an Off-the-Shelf Wearable EEG Device. 2018 , 32, 04017070	64
322	Neural activity related to volitional regulation of cortical excitability. 2018 , 7,	16
321	EEG Processing to Discriminate Transitive-Intransitive Motor Imagery Tasks: Preliminary Evidences using Support Vector Machines. 2018 , 2018, 231-234	3
320	Hand Motor Rehabilitation of Patients with Stroke Using Physiologically Congruent Neurofeedback. 2018 ,	2
319	Brain-Computer Interface and Motor Imagery Training: The Role of Visual Feedback and Embodiment. 2018 ,	14
318	Comparison of different EEG signal analysis techniques for an offline lower limb motor imagery brain-computer interface. 2018 , 2018, 203-206	1
317	A Motor Imagery-Based Brain-Computer Interface with Vibrotactile Stimuli. 2018 , 48, 1067-1077	10
316	Neurofeedback in Sport. 2018 , 304-319	1
315	A Wavelet Time-Frequency Representation Based Complex Network Method for Characterizing Brain Activities Underlying Motor Imagery Signals. 2018 , 6, 65796-65802	3
314	HD-EEG Based Classification of Motor-Imagery Related Activity in Patients With Spinal Cord Injury. 2018 , 9, 955	6
313	Calculation and Analysis of Microstate Related to Variation in Executed and Imagined Movement of Force of Hand Clenching. 2018 , 2018, 9270685	3

312	Network Brain-Computer Interface (nBCI): An Alternative Approach for Cognitive Prosthetics. 2018 , 12, 790	10
311	Exploring Motor Imagery Eeg Patterns for Stroke Patients with Deep Neural Networks. 2018 ,	11
310	Alpha and beta band correlates of haptic perceptual grouping: Results from an orientation detection task. 2018 , 13, e0201194	1
309	Muscle-selective disinhibition of corticomotor representations using a motor imagery-based brain-computer interface. 2018 , 183, 597-605	11
308	Underlying neural alpha frequency patterns associated with intra-hemispheric inhibition during an interhemispheric transfer task. 2018 , 136, 39-45	
307	The Effects of Motor Expertise on Sensorimotor Rhythm Desynchronization during Execution and Imagery of Sequential Movements. 2018 , 384, 101-110	10
306	The effects of transcranial alternating current stimulation (tACS) at individual alpha peak frequency (iAPF) on motor cortex excitability in young and elderly adults. 2018 , 236, 2573-2588	19
305	A Multi-Class BCI Based on Somatosensory Imagery. 2018 , 26, 1508-1515	14
304	Psychological Predictors of Visual and Auditory P300 Brain-Computer Interface Performance. 2018 , 12, 307	12
303	Effects of tDCS on Real-Time BCI Detection of Pedaling Motor Imagery. 2018 , 18,	7
302	Placebo hampers ability to self-regulate brain activity: A double-blind sham-controlled neurofeedback study. 2018 , 181, 797-806	14
301	Mu Suppression Is Sensitive to Observational Practice but Results in Different Patterns of Activation in Comparison with Physical Practice. 2018 , 2018, 8309483	1
300	Imagine squeezing a cactus: Cortical activation during affective motor imagery measured by functional near-infrared spectroscopy. 2018 , 126, 13-22	10
299	Extended enhancement of corticospinal connectivity with concurrent cortical and peripheral stimulation controlled by sensorimotor desynchronization. 2018 , 11, 1331-1335	9
298	Camera-Based Mirror Visual Feedback: Potential to Improve Motor Preparation in Stroke Patients. 2018 , 26, 1897-1905	11
297	Reactivating the Dormant Motor Cortex After Spinal Cord Injury With EEG Neurofeedback: A Case Study With a Chronic, Complete C4 Patient. 2018 , 1550059418792153	7
296	Sensory Stimulation Training for BCI System Based on Somatosensory Attentional Orientation. 2019 , 66, 640-646	14
295	The influence of motor preparation on the processing of action-relevant visual features. 2019 , 9, 11084	0

294	Can Oscillatory Alpha-Gamma Phase-Amplitude Coupling be Used to Understand and Enhance TMS Effects?. 2019 , 13, 263	5
293	Median Nerve Stimulation Based BCI: A New Approach to Detect Intraoperative Awareness During General Anesthesia. 2019 , 13, 622	11
292	Brain-Computer Interface Research. 2019 ,	2
291	Visual and kinesthetic modes affect motor imagery classification in untrained subjects. 2019 , 9, 9838	26
290	The Changes of Corticospinal Excitability During the Control of Artificial Hand Through the Brain-Computer Interface Based on the P300 Component of Visual Evoked Potential. 2019 , 45, 152-157	2
289	Neural correlates of unstructured motor behaviors. 2019 , 16, 066026	7
288	Activation of Mirror Neuron Regions Is Altered in Developmental Coordination Disorder (DCD)-Neurophysiological Evidence Using an Action Observation Paradigm. 2019 , 13, 232	6
287	Probing the temporal dynamics of movement inhibition in motor imagery. 2019 , 1720, 146310	4
286	Enhancing the Hybrid BCI Performance With the Common Frequency Pattern in Dual-Channel EEG. 2019 , 27, 1360-1369	12
285	Detecting Brain Activity Following a Verbal Command in Patients With Disorders of Consciousness. 2019 , 13, 976	1
284	A Lasso quantile periodogram based feature extraction for EEG-based motor imagery. 2019 , 328, 108434	14
283	Effects of motor imagery training of Parkinson's disease: a protocol for a randomized clinical trial. 2019 , 20, 626	1
282	A correntropy-based classifier for motor imagery brain-computer interfaces. 2019 , 5, 065026	9
281	Tensor Discriminant Analysis for MI-EEG Signal Classification Using Convolutional Neural Network. 2019 , 2019, 5971-5974	3
280	Hypnotic State Modulates Sensorimotor Beta Rhythms During Real Movement and Motor Imagery. 2019 , 10, 2341	7
279	Classification of EEG-based single-trial motor imagery tasks using a B-CSP method for BCI. 2019 , 20, 1087-1098	23
278	Binary Convolutional Neural Network for Brain Computer Interfaces. 2019 ,	1
277	Classification of multiclass motor imagery EEG signal using sparsity approach. 2019 , 368, 133-145	17

276	Coupling between human brain activity and body movements: Insights from non-invasive electromagnetic recordings. 2019 , 203, 116177	22
275	The Sensitivity of Single-Trial Mu-Suppression Detection for Motor Imagery Performance as Compared to Motor Execution and Motor Observation Performance. 2019 , 13, 302	6
274	Anticipatory effect of execution on observation: an approach using ExoPinch finger robot. 2019 , 49, 1054-1067	
273	A Paradigm to Enhance Motor Imagery Using Rubber Hand Illusion Induced by Visuo-Tactile Stimulus. 2019 , 27, 477-486	16
272	Ensemble Learning Approach to Motor Imagery EEG Signal Classification. 2019 , 183-208	8
271	Neurotechnologies for Human Cognitive Augmentation: Current State of the Art and Future Prospects. 2019 , 13, 13	52
270	Age-related differences in the within-session trainability of hemodynamic parameters: a near-infrared spectroscopy-based neurofeedback study. 2019 , 81, 127-137	3
269	Power Spectral Density and Functional Connectivity Changes due to a Sensorimotor Neurofeedback Training: A Preliminary Study. 2019 , 2019, 7647204	5
268	Modulation of Beta Oscillations for Implicit Motor Timing in Primate Sensorimotor Cortex during Movement Preparation. 2019 , 35, 826-840	2
267	A Real-Time Embedded System Design for ERD/ERS Measurement on EEG-Based Brain-Computer Interfaces. 2019 , 25-33	
266	Attenuated NoGo-related beta desynchronisation and synchronisation in Parkinson's disease revealed by magnetoencephalographic recording. 2019 , 9, 7235	5
265	Adults with probable developmental coordination disorder selectively process early visual, but not tactile information during action preparation. An electrophysiological study. 2019 ,	2
264	Development of a Brain-machine Interface for Stroke Rehabilitation Using Event-related Desynchronization and Proprioceptive Feedback. 2019 , 8, 53-59	7
263	Combined endogenous and exogenous disinhibition of intracortical circuits augments plasticity induction in the human motor cortex. 2019 , 12, 1027-1040	2
262	Evidence for age-related changes in sensorimotor neuromagnetic responses during cued button pressing in a large open-access dataset. 2019 , 193, 25-34	15
261	Does Fractional Anisotropy Predict Motor Imagery Neurofeedback Performance in Healthy Older Adults?. 2019 , 13, 69	1
260	Investigation of Theta Rhythm Effect in Detection of Finger Movement. 2019 , 13, 1179069519828737	2
259	Effects of Motor Imagery and Visual Neurofeedback on Activation in the Swallowing Network: A Real-Time fMRI Study. 2019 , 34, 879-895	17

258	Predicting Object-Mediated Gestures From Brain Activity: An EEG Study on Gender Differences. 2019 , 27, 411-418	16
257	An EEG Signal Analysis Method based on Elastic Network Combined with Filter Bank. 2019 ,	
256	Enhancing Mu-based BCI Performance with Rhythmic Electrical Stimulation at Alpha Frequency. 2019 , 2019, 5540-5543	0
255	A Method for EEG Contributory Channel Selection Based on Deep Belief Network. 2019 ,	
254	Corticospinal Excitability in Humans during Motor Imagery Coupled with Functional Electrical Stimulation. 2019 , 74, 183-187	1
253	Dynamic visual guidance with complex task improves intracortical source activities during motor imagery. 2019 , 30, 645-652	1
252	The BOLD response in primary motor cortex and supplementary motor area during kinesthetic motor imagery based graded fMRI neurofeedback. 2019 , 184, 36-44	15
251	Prefrontal transcranial alternating current stimulation improves motor sequence reproduction. 2019 , 361, 39-49	2
250	A comprehensive review of EEG-based brain-computer interface paradigms. 2019 , 16, 011001	206
249	Tactile Stimulation Improves Sensorimotor Rhythm-based BCI Performance in Stroke Patients. 2018 ,	13
248	A penalized time-frequency band feature selection and classification procedure for improved motor intention decoding in multichannel EEG. 2019 , 16, 016019	21
247	Brain Network Reconfiguration During Motor Imagery Revealed by a Large-Scale Network Analysis of Scalp EEG. 2019 , 32, 304-314	15
246	Analysis of Electroencephalography Event-Related Desynchronisation and Synchronisation Induced by Lower-Limb Stepping Motor Imagery. 2019 , 39, 54-69	21
245	Classification of single-trial motor imagery EEG by complexity regularization. 2019 , 31, 1959-1965	3
244	Language reorganization after resection of low-grade gliomas: an fMRI task based connectivity study. 2020 , 14, 1779-1791	20
243	The history of BCI: From a vision for the future to real support for personhood in people with locked-in syndrome. 2020 , 13, 163-180	17
242	Novel hybrid brain-computer interface system based on motor imagery and P300. 2020 , 14, 253-265	17
241	An exploration of neural dynamics of motor imagery for people with amyotrophic lateral sclerosis. 2019 , 17, 016005	2

240	Motor imagery based brain-computer interface control of continuous passive motion for wrist extension recovery in chronic stroke patients. <i>Neuroscience Letters</i> , 2020 , 718, 134727	3-3	13
239	Neurofeedback of scalp bi-hemispheric EEG sensorimotor rhythm guides hemispheric activation of sensorimotor cortex in the targeted hemisphere. 2020 , 223, 117298		2
238	Zero-Shot Learning for EEG Classification in Motor Imagery-Based BCI System. 2020 , 28, 2411-2419		7
237	Towards New Diagnostic Approaches in Disorders of Consciousness: A Proof of Concept Study on the Promising Use of Imagery Visuomotor Task. 2020 , 10,		3
236	Alpha correlates of practice during mental preparation for motor imagery. 2020 , 1-1		0
235	State-Dependent Gain Modulation of Spinal Motor Output. 2020 , 8, 523866		2
234	Response inhibition in the task-switching paradigm. 2020 , 156, 107954		0
233	Multiclass Classification Based on Combined Motor Imageries. 2020 , 14, 559858		2
232	Neural correlates of the mechanism underlying negative response repetition effects in task-switching. 2020 , 145, 105627		0
231	Differentiating the Brain's involvement in Executed and Imagined Stepping using fMRI. 2020 , 394, 112829		1
230	Improving performance in motor imagery BCI-based control applications via virtually embodied feedback. 2020 , 127, 104079		12
229	Age-Related Distinctions in EEG Signals during Execution of Motor Tasks Characterized in Terms of Long-Range Correlations. 2020 , 20,		4
228	Superior Facilitation of an Action Observation Network by Congruent Character Movements in Brain-Computer Interface Action-Observation Games. 2021 , 24, 566-572		
227	Sensorimotor Functional Connectivity: A Neurophysiological Factor Related to BCI Performance. 2020 , 14, 575081		7
226	An fNIRS-Based Motor Imagery BCI for ALS: A Subject-Specific Data-Driven Approach. 2020 , 28, 3063-3073		5
225	Leveraging the effector independent nature of motor imagery when it is paired with physical practice. 2020 , 10, 21335		1
224	Neural and Behavioral Outcomes Differ Following Equivalent Bouts of Motor Imagery or Physical Practice. 2020 , 32, 1590-1606		4
223	Reduce brain computer interface inefficiency by combining sensory motor rhythm and movement-related cortical potential features. 2020 , 17, 035003		10

222	Real-Time EEG/EMG Human-Machine Interface-Based Control System for a Lower-Limb Exoskeleton. 2020 , 8, 84070-84081	31
221	BCI-based sensorimotor rhythm training can affect individuated finger movements. 2020 , 7, 38-46	3
220	Efficacy of low-cost wireless neurofeedback to modulate brain activity during motor imagery. 2020 , 6, 035024	2
219	Observing Actions Through Immersive Virtual Reality Enhances Motor Imagery Training. 2020 , 28, 1614-1622	11
218	Electroencephalography. 2020 , 168, 249-262	8
217	Effects of MEG-based neurofeedback for hand rehabilitation after tetraplegia: preliminary findings in cortical modulations and grip strength. 2020 , 17, 026019	3
216	Emotion-Inducing Imagery Versus Motor Imagery for a Brain-Computer Interface. 2020 , 28, 850-859	7
215	A Survey on the Use of Haptic Feedback for Brain-Computer Interfaces and Neurofeedback. 2020 , 14, 528	18
214	Should I stay or should I go? How local-global implicit temporal expectancy shapes proactive motor control: An hdEEG study. 2020 , 220, 117071	3
213	Movement speed effects on beta-band oscillations in sensorimotor cortex during voluntary activity. 2020 , 124, 352-359	4
212	Anticipatory Detection of Self-Paced Rehabilitative Movements in the Same Upper Limb From EEG Signals. 2020 , 8, 119728-119743	5
211	The effects of handedness on sensorimotor rhythm desynchronization and motor-imagery BCI control. 2020 , 10, 2087	24
210	Embodiment Is Related to Better Performance on a Brain-Computer Interface in Immersive Virtual Reality: A Pilot Study. 2020 , 20,	19
209	Common Cross-Spectral Patterns of Electroencephalography for Reliable Cognitive Task Identification. 2020 , 8, 17652-17662	0
208	Smart Healthcare Analytics in IoT Enabled Environment. 2020 ,	1
207	The Effect of Expertise on Kinesthetic Motor Imagery of Complex Actions. 2020 , 33, 238-254	5
206	Low-Cost Robotic Guide Based on a Motor Imagery Brain-Computer Interface for Arm Assisted Rehabilitation. 2020 , 17,	10
205	Motor-system dynamics during naturalistic reading of action narratives in first and second language. 2020 , 216, 116820	15

204	Induction of plasticity in the human motor system by motor imagery and transcranial magnetic stimulation. 2020 , 598, 2385-2396	7
203	On the (in)efficacy of motor imagery training without feedback and event-related desynchronizations considerations. 2020 , 6, 035030	4
202	EEG-based Classification of Lower Limb Motor Imagery with Brain Network Analysis. 2020 , 436, 93-109	20
201	Melatonin effects on EEG activity during non-rapid eye movement sleep in mild-to-moderate Alzheimer's disease: a pilot study. 2021 , 131, 580-590	2
200	Neural component analysis: A spatial filter for electroencephalogram analysis. 2021 , 348, 108987	2
199	Don't stop me now: Hampered retrieval of action plans following interruptions. 2021 , 58, e13725	3
198	Preserved action recognition in children with autism spectrum disorders: Evidence from an EEG and eye-tracking study. 2021 , 58, e13740	4
197	EEG differentiates left and right imagined Lower Limb movement. 2021 , 84, 148-154	4
196	Agency and responsibility over virtual movements controlled through different paradigms of brain-computer interface. 2021 , 599, 2419-2434	10
195	Analysis and Real-Time Classification of Motor-Related EEG and MEG Patterns. 2021 , 351-382	
194	How using brain-machine interfaces influences the human sense of agency. 2021 , 16, e0245191	4
193	Analysis of quantitative EEG (QEEG) parameters on post-stroke patients undergoing static bicycle and mirror combination therapy. 2021 ,	
192	Comparison of Biofeedback and Combined Interventions on Athlete's Performance. 2021 , 46, 227-234	0
191	Toward Non-invasive BCI-Based Movement Decoding. 2021 , 233-249	
190	Brain-Computer Interfacing with Interactive Systems Case Study 2. 2021 , 237-272	
189	A Study on the Effect of Mental Practice Using Motor Evoked Potential-Based Neurofeedback. 2021 , 15, 637401	0
188	A review of user training methods in brain computer interfaces based on mental tasks. 2020 ,	23
187	Temporal Window based Feature Extraction Technique for Motor-Imagery EEG Signal Classification.	

186	Peripheral Electrical Stimulation Modulates Cortical Beta-Band Activity. 2021 , 15, 632234	3
185	A New - Discriminative and Multi- Filter Bank Tangent Space Mapping Method for Recognition of Multiclass Motor. 2021 , 15, 595723	2
184	Fuzzy-Discernibility Matrix-based Efficient Feature Selection Techniques for Improved Motor-Imagery EEG Signal Classification.	
183	Enhancement of Event-Related Desynchronization in Motor Imagery Based on Transcranial Electrical Stimulation. 2021 , 15, 635351	5
182	Development of a Guidance System for Motor Imagery Enhancement Using the Virtual Hand Illusion. 2021 , 21,	2
181	The prognostic value of resting-state EEG in acute post-traumatic unresponsive states. 2021 , 3, fcab017	1
180	Crosstalk disrupts the production of motor imagery brain signals in brain-computer interfaces. 2021 , 9, 13	1
179	Review of brain encoding and decoding mechanisms for EEG-based brain-computer interface. 2021 , 15, 569-584	9
178	The Riemannian Spatial Pattern method: mapping and clustering movement imagery using Riemannian geometry. 2021 ,	3
177	Closed-loop neurostimulation for affective symptoms and disorders: An overview. 2021 , 161, 108081	3
176	A spatial-frequency-temporal 3D convolutional neural network for motor imagery EEG signal classification. 2021 , 15, 1797	1
175	Bimodal Data Fusion of Simultaneous Measurements of EEG and fNIRS during Lower Limb Movements. 2021 , 11,	1
174	Event related spectral perturbations of gesture congruity: Visuospatial resources are recruited for multimodal discourse comprehension. 2021 , 216, 104916	1
173	Neural oscillations track the maintenance and proceduralization of novel instructions. 2021 , 232, 117870	3
172	Physical principles of brain-computer interfaces and their applications for rehabilitation, robotics and control of human brain states. 2021 , 918, 1-133	14
171	Stopping vs Resting state during motor imagery paradigm.	
170	Behavioral Induction of a High Beta State in Sensorimotor Cortex Leads to Movement Slowing. 2021 , 33, 1311-1328	1
169	Frontal brain areas are more involved during motor imagery than during motor execution/preparation of a response sequence. 2021 , 164, 71-86	2

168	Comparison of Motor Imagery EEG Classification using Feedforward and Convolutional Neural Network. 2021 ,	
167	Reduced readiness potential and post-movement beta synchronization reflect self-disorders in early course schizophrenia. 2021 , 11, 15044	0
166	Electrophysiological Decoding of Spatial and Color Processing in Human Prefrontal Cortex. 2021 , 237, 118165	1
165	Movement-related changes in pallidocortical synchrony differentiate action execution and observation in humans. 2021 , 132, 1990-2001	1
164	Feature Selection Combining Filter and Wrapper Methods for Motor-Imagery Based Brain-Computer Interfaces. 2021 , 31, 2150040	3
163	Mu oscillations and motor imagery performance: A reflection of intra-individual success, not inter-individual ability. 2021 , 78, 102819	2
162	A Statistical Approach to Evaluate Beta Response in Motor Imagery-Based Brain-Computer Interface. 2022 , 203-217	
161	An end-to-end CNN with attentional mechanism applied to raw EEG in a BCI classification task. 2021 , 18,	5
160	The Development of a Flexible Bodily Representation: Behavioral Outcomes and Brain Oscillatory Activity During the Rubber Hand Illusion in Preterm and Full-Term School-Age Children. 2021 , 15, 702449	
159	Intrahemispheric EEG: A New Perspective for Quantitative EEG Assessment in Poststroke Individuals. 2021 , 2021, 5664647	1
158	BCI-Based Control for Ankle Exoskeleton T-FLEX: Comparison of Visual and Haptic Stimuli with Stroke Survivors. 2021 , 21,	2
157	Motor Imagery Training Improves Reaction Time in Mouse Aiming Task. 2022 , 1063-1068	0
156	Alpha and high gamma phase amplitude coupling during motor imagery and weighted cross-frequency coupling to extract discriminative cross-frequency patterns. 2021 , 240, 118403	2
155	On the characterization of cognitive tasks using activity-specific short-lived synchronization between electroencephalography channels. 2021 , 143, 452-474	2
154	fMRI-Informed EEG for brain mapping of imagined lower limb movement: Feasibility of a brain computer interface. 2021 , 363, 109339	0
153	Improving EEG Decoding via Clustering-Based Multitask Feature Learning. 2021 , PP,	9
152	EEG Correlates of Cognitive Functions and Neuropsychiatric Disorders: A Review of Oscillatory Activity and Neural Synchrony Abnormalities. 2021 , 16, 228-243	0
151	Improving J-Divergence of Brain Connectivity States by Graph Laplacian Denoising. 2021 , 7, 493-508	1

150	Brain Electric Oscillations and Cognitive Processes. 2003 , 111-130	6
149	Brain Sensors and Signals. 2010 , 9-35	6
148	Can BCI Paradigms Induce Feelings of Agency and Responsibility Over Movements?. 2019 , 103-114	4
147	Convolutional LSTM: A Deep Learning Method for Motion Intention Recognition Based on Spatiotemporal EEG Data. 2019 , 216-224	3
146	Rehabilitation Technologies Application in Stroke and Traumatic Brain Injury Patients. 2016 , 29-64	8
145	A Brain-Computer Interface Based on Abstract Visual and Auditory Imagery: Evidence for an Effect of Artistic Training. 2017 , 313-332	2
144	Dynamics of Sensorimotor Oscillations in a Motor Task. 2009 , 47-64	10
143	Head-Computer Interface: A Multimodal Approach to Navigate through Real and Virtual Worlds. 2011 , 222-230	7
142	Interface Design Challenge for Brain-Computer Interaction. 2011 , 500-506	1
141	Random Forests for Feature Selection in Non-invasive Brain-Computer Interfacing. 2013 , 207-216	6
140	Human Adaptation, Plasticity and Learning for a New Sensory-Motor World in Virtual Reality. 2013 , 184-191	0
139	An EEG Brain-Computer Interface to Classify Motor Imagery Signals. 2020 , 83-98	6
138	Mentales Training als Simulation. 2010 , 17, 69-77	7
137	Aging and the Lateralization of Oscillatory Activities Related to External and Internal Motor Preparation. 2014 , 28, 136-147	6
136	Behind the Scenes of Noninvasive Brain-Computer Interfaces: A Review of Electroencephalography Signals, How They Are Recorded, and Why They Matter. 2019 , 4, 1622-1636	8
135	Enhancement of left-right sensorimotor EEG differences during feedback-regulated motor imagery. 1999 , 16, 373-82	188
134	Functional imaging of postmovement beta event-related synchronization. 1999 , 16, 383-90	15
133	Neural oscillations track the maintenance and proceduralization of novel instructions.	2

132	Agency and responsibility over virtual movements controlled through different paradigms of brain-computer interface.	1
131	A Multi-Class Tactile Brain-Computer Interface Based on Stimulus-Induced Oscillatory Dynamics. 2018 , 26, 3-10	12
130	Observational learning of new movement sequences is reflected in fronto-parietal coherence. 2010 , 5, e14482	32
129	The dynamics of sensorimotor cortical oscillations during the observation of hand movements: an EEG study. 2012 , 7, e37534	127
128	Translation of EEG spatial filters from resting to motor imagery using independent component analysis. 2012 , 7, e37665	34
127	Detecting awareness in the vegetative state: electroencephalographic evidence for attempted movements to command. 2012 , 7, e49933	72
126	Decoding intention at sensorimotor timescales. 2014 , 9, e85100	20
125	A Comparison of Independent Event-Related Desynchronization Responses in Motor-Related Brain Areas to Movement Execution, Movement Imagery, and Movement Observation. 2016 , 11, e0162546	28
124	Comparing Features for Classification of MEG Responses to Motor Imagery. 2016 , 11, e0168766	15
123	Single-session tDCS over the dominant hemisphere affects contralateral spectral EEG power, but does not enhance neurofeedback-guided event-related desynchronization of the non-dominant hemisphere's sensorimotor rhythm. 2018 , 13, e0193004	9
122	Alpha Neurofeedback Has a Positive Effect for Participants Who Are Unable to Sustain Their Alpha Activity. 2019 , 6,	3
121	Lamina-specific cortical dynamics in human visual and sensorimotor cortices. 2018 , 7,	26
120	EEG sensorimotor rhythms' variation and functional connectivity measures during motor imagery: linear relations and classification approaches. 2017 , 5, e3983	16
119	Electroencephalographic modulations during an open- or closed-eyes motor task. 2018 , 6, e4492	8
118	EEG Decoding of Motor Imagery Mode Based on WPT-CSP. 2021 ,	
117	Move your virtual body: differences and similarities in brain activation patterns during hand movements in real world and virtual reality. 1	3
116	Prospective on Brain Machine Interfaces for Space System Control. 2006 ,	2
115	The Use of Brain-Computer Interfacing in Ambient Intelligence. 2008 , 268-285	3

- 114 Classification of Imagery Movement Tasks for Brain-Computer Interfaces Using Regression Tree. **2009**, 461-468
- 113 Online Motor Imagery Training Effect for the Appearance of Event Related Desynchronization (ERD). **2009**, 22, 199-205 4
- 112 EEG Based Brain-Computer Interface System for Remote Vehicle Controlling. **2011**, 695-699
- 111 Bispectrum Analysis of EEG in Estimation of Hand Movement. **2011**, 109-118 1
- 110 Accuracy Comparison of Motor Imagery Performance Evaluation Factors Using EEG Based Brain Computer Interface by Neurofeedback Effectiveness. **2011**, 32, 295-304
- 109 Zur Anwendung der Elektroenzephalographie in der Sportpsychologie. **2012**, 19, 70-79 2
- 108 Brain-Computer Interfaces. **2012**,
- 107 Application of Prewhitening Beamformer with Linear Constraints for Correlated EEG Signal Source Estimation. **2013**, 243-254
- 106 An Examination of Gender Differences in Mu Rhythm of the Mirror-Neuron System during the Imagination of Observed Action. **2013**, 489-495
- 105 A Novel Multi-class Brain-Computer Interface (BCI) Paradigm Based on Motor Imagery Sequential Coding (MISC) Protocol. **2013**, 295-302
- 104 Towards Enhancing Motor Imagery Based Brain-Computer Interface Performance by Integrating Speed of Imagined Movement. **2014**, 234-241
- 103 Filter Selection Method Using CSP and LDA for Filter-bank based BCI Systems. **2014**, 51, 197-206
- 102 Musical Imagery Involves the Wernicke's Area in Bilateral and Anti-Correlated Network Interactions in Musicians.
- 101 Online Control of a Virtual Object with Collaborative SSVEP. **2017**, 21, 1291-1297 2
- 100 Laminar-specific cortical dynamics in human visual and sensorimotor cortices. 3
- 99 A different state of mind: neural activity related to volitionally up- versus downregulating cortical excitability.
- 98 Salient images: Evidence for a component process architecture for visual imagination.
- 97 Movement-related changes in pallidocortical synchrony differentiate action execution and observation in humans.

- 96 Sensory stimulation enhances phantom limb perception and movement decoding.
- 95 Theoretical Perspective on an Ideomotor Brain-Computer Interface: Toward a Naturalistic and Non-invasive Brain-Computer Interface Paradigm Based on Action-Effect Representation. **2021**, 15, 732764 1
- 94 Actual, sham and no-feedback effects in motor imagery practice. **2022**, 71, 103262 2
- 93 Multiattention Adaptation Network for Motor Imagery Recognition. **2021**, 1-13 3
- 92 The role of working memory for bridging the gap between perception and goal-directed actions: Evidence by mu and beta oscillations in sensorimotor cortex.
- 91 Study of Different Filter Bank Approaches in Motor-Imagery EEG Signal Classification. **2020**, 173-190 3
- 90 A comparison of GABA-ergic (propofol) and non-GABA-ergic (dexmedetomidine) sedation on visual and motor cortical oscillations, using magnetoencephalography.
- 89 Enhancement of motor performance by a training method combining motor imagery and neurofeedback.
- 88 A comparison of GABA-ergic (propofol) and non-GABA-ergic (dexmedetomidine) sedation on visual and motor cortical oscillations, using magnetoencephalography. **2021**, 245, 118659 0
- 87 Möglichkeiten und Grenzen von Neurofeedback. **2020**, 9, 187-196 1
- 86 Sensorimotor functional connectivity: a neurophysiological factor related to BCI performance.
- 85 Brain-Computer Interfaces and Visual Activity. 1549-1570
- 84 Brain-Computer Interfaces and Visual Activity. 153-174
- 83 Subject-Adaptive Real-Time BCI System. **2008**, 1037-1046 1
- 82 The Use of Photo Retrieval for EEG-Based Personal Identification. **2008**, 276-283
- 81 Sensory stimulation enhances phantom limb perception and movement decoding. **2020**, 17, 056006 1
- 80 Mu oscillations and motor imagery performance: A reflection of success, not ability.
- 79 Privacy computing using deep compression learning techniques for neural decoding. **2021**, 23, 100229

78	Automation Using Brain Signals and Machine Interface. 2021 , 505-515	
77	Cortical Mu Rhythms During Action and Passive Music Listening.. 2021 ,	0
76	Characterization of Kinesthetic Motor Imagery paradigm for wrist and forearm using an algorithm based on the Hurst Exponent and Variogram. 2020 ,	
75	Detection of Lower Limb Movements using Sensorimotor Rhythms. 2021 ,	
74	Distance Covariance: A Nonlinear Extension of Riemannian Geometry for EEG-based Brain-Computer Interfacing. 2021 ,	0
73	An Impending Paradigm Shift in Motor Imagery Based Brain-Computer Interfaces.. 2021 , 15, 824759	0
72	A Novel Classification Framework Using the Graph Representations of Electroencephalogram for Motor Imagery based Brain-Computer Interface.. 2021 , PP,	7
71	Alpha Oscillations Are Involved in Localizing Touch on Handheld Tools.. 2022 , 1-12	0
70	Exploiting pretrained CNN models for the development of an EEG-based robust BCI framework.. 2022 , 143, 105242	4
69	State-of-the-art Versus Deep learning: A Comparative Study of Motor Imagery Decoding Techniques. 2022 , 1-1	0
68	Differential Effects of 10 and 20 Hz Brain Stimulation in Chronic Stroke: A tACS-fMRI Study.. 2022 , PP,	0
67	Meta-BCI: Perspectives on a role of self-supervised learning in meta brain computer interface. 2022 ,	
66	Theta-phase connectivity between medial prefrontal and posterior areas underlies novel instructions implementation.	0
65	A wireless, wearable Brain-Computer Interface for neurorehabilitation at home; A feasibility study. 2022 ,	1
64	Effect of long-term paired associative stimulation on the modulation of cortical sensorimotor oscillations after spinal cord injury.. 2022 , 8, 38	0
63	Graph-based Recurrence Quantification Analysis of EEG Spectral Dynamics for Motor Imagery-based BCIs. 2021 , 2021, 6453-6457	0
62	Neural signature of everyday function in older adults at-risk of cognitive impairment.	
61	Spatially bivariate EEG-neurofeedback can manipulate interhemispheric rebalancing of M1 excitability.	

- 60 Noninvasive and Invasive BCIs and Hardware and Software Components for BCIs. **2022**, 1-32
- 59 EEG-Based Motor Imagery Classification Using Multilayer Perceptron Neural Network. **2022**, 1873-1878 ○
- 58 Data_Sheet_1.pdf. **2020**,
- 57 Data_Sheet_1.docx. **2019**,
- 56 Image_1.JPEG. **2019**,
- 55 Image_2.JPEG. **2019**,
- 54 Image_3.JPEG. **2019**,
- 53 Robustly Effective Approaches on Motor Imagery-Based Brain Computer Interfaces. **2022**, 11, 61 ○
- 52 A Domain Adaptation-Based Method for Classification of Motor Imagery EEG. **2022**, 10, 1588 ○
- 51 Evaluation of Post-Stroke Impairment in Fine Tactile Sensation by Electroencephalography (EEG)-Based Machine Learning. **2022**, 12, 4796 ○
- 50 Constructing Time-varying Directed EEG network by Multivariate Nonparametric Dynamical Granger Causality.. **2022**, PP, ○
- 49 Limb Preference and Skill Level Dependence During the Imagery of a Whole-Body Movement: A Functional Near Infrared Spectroscopy Study. **2022**, 16,
- 48 Improving EEG-based Motor Execution Classification for Robot Control. **2022**, 65-82
- 47 Reducing the Calibration Time in Somatosensory BCI by Using Tactile ERD. **2022**, 30, 1870-1876 ○
- 46 Visual and Haptic Feedback in Detecting Motor Imagery within a Wearable Brain-Computer Interface.
- 45 Effect of Hand Dominance When Decoding Motor Imagery Grasping Tasks. **2022**, 233-249 1
- 44 When do bursts matter in the motor cortex? Investigating changes in the intermittenencies of beta rhythms associated with movement states. ○
- 43 Research on Rehabilitation Training Strategies Using Multimodal Virtual Scene Stimulation. 14,

42	Imaging cortical engagement during motor imagery, mental arithmetic, and silent word generation using MEG beta rhythm.	
41	Spatially bivariate EEG-neurofeedback can manipulate interhemispheric inhibition. 11,	0
40	THE EMERGING WORLD OF MOTOR NEUROPROSTHETICS. 2006 , 59, 1-14	1
39	Closed-loop motor imagery EEG simulation for brain-computer interfaces. 16,	
38	Clustered event related spectral perturbation (ERSP) feature in right hand motor imagery classification. 16,	
37	A new attention-based 3D densely connected cross-stage-partial network for motor imagery classification in BCI.	0
36	Performance Variation of a Somatosensory BCI Based on Imagined Sensation: A Large Population Study. 2022 , 30, 2486-2493	2
35	A VR-Based Motor Imagery Training System with EMG-Based Real-Time Feedback for Post-Stroke Rehabilitation. 2022 , 1-1	0
34	Multi-Source Decentralized Transfer for Privacy-Preserving BCIs. 2022 , 30, 2710-2720	0
33	Motor Performance Index for Evaluation of Distributed Pattern in Multi-channel EEG. 2022 ,	0
32	Spatio-Temporal Neural Dynamics of Observing Non-Tool Manipulable Objects and Interactions. 2022 , 22, 7771	0
31	Adult lifespan trajectories of neuromagnetic signals and interrelations with cortical thickness.	0
30	Exploring the Visual Guidance of Motor Imagery in Sustainable Brain-Computer Interfaces. 2022 , 14, 13844	0
29	Subject adaptation convolutional neural network for EEG-based motor imagery classification.	1
28	Novel channel selection model based on graph convolutional network for motor imagery.	1
27	Event-Related Desynchronization induced by Tactile Imagery: an EEG Study.	0
26	A Novel Deep Learning Method Based on an Overlapping Time Window Strategy for Brain-Computer Interface-Based Stroke Rehabilitation. 2022 , 12, 1502	1
25	Neural signature of mobility-related everyday function in older adults at-risk of cognitive impairment. 2022 ,	0

24	Visual and haptic feedback in detecting motor imagery within a wearable brain-computer interface. 2023 , 206, 112304	1
23	Enhanced algorithm for energy optimization and improvised synchronization in knee exoskeleton system. 2022 , 117, 79-85	0
22	Enhancing Motor-Imagery Brain-Computer Interface Training With Embodied Virtual Reality: A Pilot Study With Older Adults. 2022 ,	0
21	Movement-related beta ERD and ERS abnormalities in neuropsychiatric disorders. 16,	0
20	Effects of brain network segregation and integration on motor imagery sensorimotor rhythm. 2023 , 2, 5-22	0
19	Brain activation by a VR-based motor imagery and observation task: An fMRI study.	0
18	When do Bursts Matter in the Primary Motor Cortex? Investigating Changes in the Intermittencies of Beta Rhythms Associated With Movement States. 2022 , 102397	1
17	Altered functional connectivity: A possible reason for reduced performance during visual cognition involving scene incongruence and negative affect. 2022 , 13, 533-542	0
16	Robust Motor Imagery Tasks Classification Approach Using Bayesian Neural Network. 2023 , 23, 703	0
15	Genetic algorithm for feature selection of EEG heterogeneous data. 2023 , 217, 119488	0
14	Noninvasive and Invasive BCIs and Hardware and Software Components for BCIs. 2023 , 1193-1224	0
13	Deep stacked least square support matrix machine with adaptive multi-layer transfer for EEG classification. 2023 , 82, 104579	0
12	Spatio-spectral feature classification combining 3D-convolutional neural networks with long short-term memory for motor movement/imagery. 2023 , 120, 105862	0
11	MRCPs-and-ERS/D-Oscillations-Driven Deep Learning Models for Decoding Unimanual and Bimanual Movements. 2023 , 31, 1384-1393	0
10	Improving Multi-Class Motor Imagery EEG Classification Using Overlapping Sliding Window and Deep Learning Model. 2023 , 12, 1186	0
9	EEG-Based BCIs on Motor Imagery Paradigm Using Wearable Technologies: A Systematic Review. 2023 , 23, 2798	0
8	A Low-Complexity Brain-Computer Interface for High-Complexity Robot Swarm Control. 2023 , 31, 1816-1825	0
7	Effect of Grasping Speed During Wearable Robotic Glove-Based Motor Imagery Training. 2023 ,	0

- 6 Mapping and decoding cortical engagement during motor imagery, mental arithmetic, and silent word generation using MEG. ○
- 5 Review of public motor imagery and execution datasets in brain-computer interfaces. 17, ○
- 4 Investigating the impact of visual perspective in a motor imagery-based brain-robot interaction: A pilot study with healthy participants. 4, ○
- 3 Timing-specific patterns of cerebral activations during motor imagery: A case study of the expert brain signature. **2023**, 167, 105971 ○
- 2 Suppression of Alpha and Beta Oscillations in the Course of Virtual Social Interactions. **2023**, 49, 35-43 ○
- 1 Evaluation of EEG Oscillatory Patterns and Classification of Compound Limb Tactile Imagery. **2023**, 13, 656 ○