Year	First Author	Channels	Device	Participants	Population	P	Mobility	Task	Subarea	Area
2006	Chez MG	16	DigiTrace	889	Autism	3	Free move	24-hour ambulatory	Autism	Clinical Conditions
2015	Malcolm BR	72	ActiveTwo	36	Older	2	Walk on a treadmill	Visual Go/No-Go	Ageing, Cognitive control	Clinical Conditions
2016	Grønli J	6	Titanium	16	Healthy	0	Sleep	Reading book vs iPad	Sleep	Clinical Conditions
2016	Lucey BP	3	Sleep Profiler	29	Healthy	0	Sleep	Sleep	Sleep	Clinical Conditions
2016	López-Larraz E	64	g.Tec	7	Spinal Cord Injury	2	Walk with exoskeleton	Exoskeleton control	Gait, Spinal Cord Injury	Clinical Conditions
2017	Gu Y	4	Schwarzer EEG Amplifier	24	Epilepsy	0	Sleep	Sleep	Epilepsy, Sleep	Clinical Conditions
2017	Levendowski DJ	3	Sleep Profiler	63	Healthy	0	Sleep	Sleep biomarkers	Sleep	Clinical Conditions
2017	Neale C	14	EPOC	95	Older	3	Free walk outdoors	Different scenarios. Emotions	Ageing, Emotions	Clinical Conditions
2018	Debellemaniere E	6	Actiwave	24	Healthy	0	Sleep	Auditory stimulation during sleep	Sleep	Clinical Conditions
2018	Simons S	16	Oxford Instr. Profile Study Room 2.3.411	22	Dementia	0	Sit	Rest with eyes closed	Dementia	Clinical Conditions
2018	Calabrò RS	21	Brain Quick SystemPLUS	40	Stroke	2	Walk with exoskeleton	Exoskeleton gait training	Gait, Stroke	Clinical Conditions
2019	Shustak S	4	Homemade	9	Healthy	0	Sleep	Napping	Sleep	Clinical Conditions
2019	Dres M	2	Alice PDx	44	Mechanically ventila	0	Sleep	Sleep	Sleep	Clinical Conditions
2019	Mikkelsen KB	6,20	SOMNO, cEEGrid + Smarting	15	Healthy	0	Sleep	Sleep	Sleep	Clinical Conditions
2019	Jebelli H	14	EPOC	7	Healthy	1	Sit	Stress recognition in real time	Stress	Clinical Conditions
2019	Ahn JW	2	Homemade	14	Healthy	1	Sit	Stress test, Design new system	Stress, Design	Clinical Conditions
2019	Ding X	5	Muse	348	Depression	1	Sit	Visual affective and neutral stimuli	Depression, Emotions	Clinical Conditions
2020	Vandecasteele K	4	ear-EEG	54	Epilepsy	0	Rest	Rest	Epilepsy	Clinical Conditions
2020	Thapa N	19	Quick-20	68	Dementia	0	Sit	Rest with eyes closed, Cognitive, VR training	Dementia	Clinical Conditions
2020	Arnal PJ	6	Siesta	25	Healthy	0	Sleep	Sleep	Sleep	Clinical Conditions
2020	Nakamura T	8	SOMNO, ear-EEG	22	Healthy	0	Sleep	Sleep	Sleep	Clinical Conditions
2020	Martins IP	1	BrainStation	22	Migraine	1	Sit	Attention, pre-symptom prediction at home	Attention, Migraine	Clinical Conditions
2020	Cicalese PA	32	BrainAmp	29	Dementia	1	Sit	Digit encoding-retrieval, memory	Dementia, Memory	Clinical Conditions
2021	Clarke S	32	Siesta	103	Epilepsy	0	Sleep	Sleep	Epilepsy	Clinical Conditions
2009	Holm A	3	SynAmps	20	Healthy	1	Sit	Cognitive tasks, mental fatigue	Attention	Cognitive Monitoring
2010	Gramann K	248	ActiveTwo	12	Healthy	4	Stand, walk, run on a treadmill	Natural Cognition	Attention	Cognitive Monitoring
2012	Liao LD	14	Homemade	8	Healthy	1	Sit	Game based on focus level	Games, Attention	Cognitive Monitoring
2012	Debener S	14	EPOC	16	Healthy	3	Sit indoors, Free walk outdoors	Auditory oddball	Attention	Cognitive Monitoring
2013	Liu NH	1	Brainwave	24	Healthy	0	Sit	Attention	Attention	Cognitive Monitoring
2014	Lin CT	4	Homemade	15	Healthy	1	Sit	Sustained-attention driving task with VR	Attention	Cognitive Monitoring
2014	De Sanctis P	72	ActiveTwo	18	Healthy	2	Sit, Slow, Fast Walk on treadmill	Go/NoGo response-inhibition	Cognitive control	Cognitive Monitoring
2015	Aspinall P	14	EPOC	16	Healthy	3	Free walk	Mental states at different urban places	Emotions	Cognitive Monitoring
2016	Hashemi A	4	Muse	6029	Healthy	1	Sit	Meditation with Neurfeedback	Meditation	Cognitive Monitoring
2016	Mirkovic B	20,24	cEEGrid + Smarting	20	Healthy	1	Sit	Speaker detection	Audition	Cognitive Monitoring
2016	Beurskens R	64	ANT-neuro	12	Healthy	2	Constrained Walk indoors	Cognitive-motor interference, Go/NoGo task	Cognitive control	Cognitive Monitoring
2016	Bradford JC	264	ActiveTwo	20	Healthy	2	Walk on a treadmill	Motor control, different slopes	Gait	Cognitive Monitoring
2016	Zink R	24	Smarting	15	Healthy	3	Cycling static and free outdoor	Auditory oddball, Cycling	Attention	Cognitive Monitoring
2017	Leminen MM	4	Enobio	15	Healthy	0	Sleep	Memory consolidation, Sleep, Auditory stimulation	Sleep, Memory	Cognitive Monitoring
2017	Morales JM	1	Neurosky	17	Healthy	1	Sit	Driving simulation	Attention	Cognitive Monitoring
2017	So WKY	1	Neurosky	20	Healthy	1	Sit	Mental workload, Cognitive and motor tasks	Mental workload	Cognitive Monitoring
2017	Zhang X	8	Homemade	10	Healthy	1	Sit	Vigilance detection, Train driver	Attention	Cognitive Monitoring
2017	Poulsen AT	14	EPOC	42	Healthy	1	Sit	Watch video in classroom, Attention. Hyperscanning	Education	Cognitive Monitoring
2017	Banaei M	128	BrainAmp + MOVE	17	Healthy	2	Constrained Walk indoors	Emotions in interior architectural forms with VR	Emotions	Cognitive Monitoring
2017	Al-Barrak L	1	Neurosky	40	Healthy	3	Free walk	Mental states at different urban places. Meditation	Emotions	Cognitive Monitoring
2017	Dikker S	14	EPOC	12	Healthy	3	Free move	School classroom activities. Hyperscanning	Education, Attention	Cognitive Monitoring
2018	Katsigiannis S	14	EPOC	23	Healthy	1	Sit	Emotions with audio-visual stimuli	Emotions	Cognitive Monitoring
2018	Marin-Morales J	9	B-Alert X10	60	Healthy	2	Still, Free exploration of museum	Emotions with pictures, VR	Emotions	Cognitive Monitoring
2019	Gonzalez Viejo C	1	Neurosky	30	Healthy	1	Sit	Beer consumption	Marketing	Cognitive Monitoring
2019	Golnar-Nik P	32	EEG8	16	Healthy	1	Sit	Decision-making, consumer preferences	Marketing	Cognitive Monitoring
2019	Athavipach C	1	Homemade	12	Healthy	1	Sit	Emotions with pictures and sounds, in-ear-EEG	Emotions	Cognitive Monitoring
2019	Ziegler DA	64	ActiveTwo	59	Healthy	1	Sit	Meditation, Attention, Memory	Meditation	Cognitive Monitoring
2019	Dehais F	6	Enobio	22	Healthy	1	Sit	Mental Workload in pilots	Mental workload	Cognitive Monitoring
2019	Blanco JA	14	EPOC	18	Healthy	1	Sit	Stroop color-word interference to elicit stress	Stress	Cognitive Monitoring
2019	Djebbara Z	64	eego sports	20	Healthy	2	Constrained Walk	Motor planning, Go/NoGo, architectural affordances	Cognitive control	Cognitive Monitoring
2019	Solis-Escalante T	126	WaveGuard	10	Healthy	2	Postural Balance	Postural Balance	Balance	Cognitive Monitoring
2019	Ladouce S	32	ANT-neuro	24	Healthy	3	Still, Free Walk	Auditory oddball	Attention	Cognitive Monitoring
2019	Reiser JE	30	actiCAP + LiveAmp	20	Healthy	3	Stand, Free Walk, Obstacles outdoor	Auditory oddball, Gait	Attention	Cognitive Monitoring
2019	Piñeyro Salvidegoitia M	24	Smarting	25	Healthy	3	Walk on a treadmill, Free walk outdoors	Memory of words at differnt locations, smartphone	Memory	Cognitive Monitoring
2019	Bevilacqua D	14	EPOC	12	Healthy	3	Free move	School class activities. Hyperscanning	Education	Cognitive Monitoring
2019	di Fronso S	64	WaveGuard	17	Healthy	2	Constrained cycling	Physical Effort, endurance cycling	Cycling	Cognitive Monitoring
2019	Nordin AD	128	ActiveTwo	9	Healthy	4	Walk, Run, on a treadmill with obstacles	Gait with obstacles	Gait	Cognitive Monitoring
2019	Scanlon JEM	15	actiCAP + Vamp	12	Healthy	3	Cycling indoors/outdoors	Auditory oddball	Attention	Cognitive Monitoring
2020	Narayanan AM	64	ActiveTwo	16	Healthy	1	Sit	Auditory attention, mini-EEG	Attention	Cognitive Monitoring
2020	Raheel A	4	Muse	21	Healthy	1	Sit	Emotion recognition in response to audio and video	Emotions	Cognitive Monitoring
2020	Zhang D	14	EPOC	9	Healthy	1	Sit	Intention recognition	Intention recognition	Cognitive Monitoring
2020	Packheiser J	32	LiveAmp	51	Healthy	1	Sit	Motor of arms and feet to evaluate lateralization	Motor lateralization	Cognitive Monitoring
2020	Nordin AD	128	ActiveTwo	9	Healthy	2	Walk on a treadmill at different speeds	Gait speed	Gait	Cognitive Monitoring
2020	Bigliassi M	4	Muse	24	Healthy	3	Free walk	Audio-guided mindfulness	Meditation	Cognitive Monitoring
2020	Lin W	14	EPOC	40	Healthy	3	Sit, Free Walk	Cognitive, emotional changes by urban spaces	Emotions	Cognitive Monitoring
2020	Topalovic U	64	eego sports	7	Epilepsy	3	Free walk	Mobile deep brain (iEEG) and stimulation (Mo-DBRS	Epilepsy	Cognitive Monitoring
2020	Haar S	14	EPOC	30	Healthy	3	Free move	Motor learning, billiard	Motor learning	Cognitive Monitoring
2021	Mustile M	32	ANT-neuro	32	Healthy	3	Walk with obstacles	Real-world obstacle avoidance, Motor plan	Gait	Cognitive Monitoring
2021	Hölle D	20	cEEGrid + Smarting	12	Healthy	3	Free move working in the office	Auditory oddball with smartphone	Attention	Cognitive Monitoring
2010	Chin-Teng Lin	3	Homemade	15	Healthy	1	Sit	Drowsiness	Attention	Control and Communication
2014	De Vos M	14	Modified EPOC	20	Healthy	3	Free walk outdoors	Auditory oddball P300	Attention	Control and Communication
2015	Ma J	8	g.USBamp	13	Healthy	1	Sit	Visual oddball, classify eye movements, robot contro	Robot control	Control and Communication
2016	Luu TP	64	actiCAP + MOVE	4	Healthy	2	Walk on a treadmill	Avatar control	Robot control	Control and Communication
2017	Kwak NS	8	MOVE	7	Healthy	2	Stand, Walk with exoskeleton	Exoskeleton control, SSVEP, Gait	Exoskeleton, Gait	Control and Communication
2017	Artoni F	64	actiCAP + SD MRI Micromed	11	Healthy	2	Walk on a treadmill	Motor control of leg muscles	Gait	Control and Communication
2018	Chen X	10	Neuracle	12	Healthy	1	Sit	Control of robotic arm with gaze, SSVEP	Robot control	Control and Communication
2019	Zhang J	40	Homemade	6	Healthy	1	Sit, motor activity	Robot control	Robot control	Control and Communication
2020	Si-Mohammed H	6	g.USBamp	15	Healthy	1	Sit	Robot control, SSVEP	Robot control	Control and Communication
2020	Shao L	32	Brain Products	7	Healthy	1	Sit	Robot control, SSVEP	Robot control	Control and Communication
2020	Tortora S	64	actiCAP + SD MRI Micromed	11	Healthy	2	Walk on a treadmill	Gait decoding	Gait	Control and Communication
2012	Chi YM	1	Homemade	10	Healthy	1	Sit	Compare electrode performance in SSVEP	Comparison	Methodological Approaches
2013	Badcock NA	14	EPOC	21	Healthy	1	Sit	Auditory oddball, Validation of gaming system	Validation	Methodological Approaches
2014	De Vos M	14	Modified EPOC	14	Healthy	0	Sit	Visual P300 spelling task	Comparison	Methodological Approaches
2014	David Hairston W	64,9,14,9	ActiveTwo, B-Alert X10, EPOC, HMS	16	Healthy	1	Sit	Cognitive	Comparison	Methodological Approaches
2015	Bleichner MG	13	EasyCap + BrainAmp	12	Healthy	0	Sit	Visual P300 spelling task	Design	Methodological Approaches
2015	Mikkelsen KB	12	earEEG + g.tec USBamp	13	Healthy	1	Sit	Cognitive, characterize ear EEG	Validation	Methodological Approaches
2015	Debener S	20	cEEGrid + Smarting	10	Healthy	1	Sit	Rest and Auditory oddball with smartphone	Validation	Methodological Approaches
2015	Mullen TR	64	Cognionics HD-72 dry	9	Healthy	1	Sit	System evaluation, Real-Time	Validation	Methodological Approaches
2015	Snyder KL	256	ActiveTwo	10	Healthy	2	Walk on a treadmill	Methods for artifacts	Artifacts	Methodological Approaches
2016	Rogers JM	1	Neurosky	59	Healthy	1	Sit	Rest eyes open/closed, Auditory oddball, Visual n-ba	Validation	Methodological Approaches
2016	Oliveira AS	64	Cognionics Dry/Wet	9	Healthy	2	Sit, Walk on a treadmill	Auditory oddball	Validation	Methodological Approaches
2016	Nathan K	64	actiCAP + MOVE	4	Healthy	2	Walk on a treadmill at different speeds	Evaluate motion artifacts	Artifacts	Methodological Approaches
2016	Kilicarslan A	64	actiCAP + MOVE	12	Healthy	2	Walk on a treadmill, Walk with exoskeleton	Methods for artifact removal	Artifacts	Methodological Approaches
2017	Melnik A	127,64,32,14	asalabTM, actiCAP, g.Nautilus, EPOC	4	Healthy	1	Sit	Cognitive, EEG systems comparison	Comparison	Methodological Approaches
2017	Krigolson OE	4	Muse	60	Healthy	1	Sit	Visual oddball, reward-learning	Validation	Methodological Approaches
2018	La TG	1	Homemade	1	Healthy	0	Sit	Rest eyes open/closed. Design electronics e-textile	Design	Methodological Approaches
2018	Radüntz T	14,32,4,8,16,16	EPOC, Trilobite Jellyfish, BR8+, g. SAHARA, g.LADYbird	24	Healthy	1	Sit	Cognitive tasks and games. EEG systems compariso	Comparison	Methodological Approaches
2018	Kim JH	2	Homemade	10	Healthy	1	Sit	Open/close eyes, arm strain. Design cabon nanotube	Design	Methodological Approaches
2018	Kassab A	32	Homemade	16	Epilepsy, Stroke	2	Still, Stationary cycling	Visual, Cognitive, Cycling, Epilepsy, Stroke	Validation	Methodological Approaches
2019	Kam JWY	33	F1 Nielsen	30	Healthy	1	Sit	Rest and RSVP. Comparison of EEG systems	Comparison	Methodological Approaches
2019	Blum S	24	Smarting	27	Healthy	3	Walk on a treadmill, Free walk outdoors	Memory of words at differnt locations, smartphone	Artifacts	Methodological Approaches
2020	Li G	1	Homemade	5	Healthy	0	Sit	Rest eyes open/closed. Design printable electrodes	Design	Methodological Approaches
2020	Hinrichs H	19	F1 Nielsen	32	Dementia	0	Sit	Rest, visual evoked potentials. Comparison of EEG s	Comparison	Methodological Approaches
2020	Titgemeyer Y	14	EPOC	22	Epilepsy	0	Sit	Rest. Comparison with clinical EEG	Comparison	Methodological Approaches
2021	Klug M	157	EasyCap + MOVE + BrainAmp	20	Healthy	2	Stand, Physical rotation	VR. Methods.	Artifacts	Methodological Approaches
2021	Reiser JE	30	actiCAP + LiveAmp	23	Healthy	3	Stand, Free walk, Obstacles outdoor	Cognitive-motor interference task, Gait	Cognitive-motor interference, Artifacts	Methodological Approaches