

Klaus Gramann

List of Publications by Year in Descending Order

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

101
papers

3,711
citations

30
h-index

59
g-index

112
ext. papers

4,608
ext. citations

3.7
avg, IF

5.77
L-index

#	Paper	IF	Citations
101	Changes in brain activity of trainees during laparoscopic surgical virtual training assessed with electroencephalography.. <i>Brain Research</i> , 2022 , 147836	3.7	0
100	A general spatial transformation process? Assessing the neurophysiological evidence on the similarity of mental rotation and folding. <i>NeuroImage Reports</i> , 2022 , 2, 100092		0
99	Neural Sources of Prediction Errors Detect Unrealistic VR Interactions.. <i>Journal of Neural Engineering</i> , 2022 ,	5	3
98	Neuroscience and architecture: Modulating behavior through sensorimotor responses to the built environment. <i>Neuroscience and Biobehavioral Reviews</i> , 2022 , 138, 104715	9	2
97	Dual-Task Performance in Hearing-Impaired Older Adults-Study Protocol for a Cross-Sectional Mobile Brain/Body Imaging Study. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 773287	5.3	1
96	Requirements of a cognitive-motor spatial orientation training for nursing home residents: an iterative feasibility study. <i>German Journal of Exercise and Sport Research</i> , 2021 , 51, 443	1.2	0
95	Grand Field Challenges for Cognitive Neuroergonomics in the Coming Decade. <i>Frontiers in Neuroergonomics</i> , 2021 , 2,	5.3	5
94	Single-trial regression of spatial exploration behavior indicates posterior EEG alpha modulation to reflect egocentric coding. <i>European Journal of Neuroscience</i> , 2021 ,	3.5	4
93	Mobile brain/body imaging of landmark-based navigation with high-density EEG. <i>European Journal of Neuroscience</i> , 2021 ,	3.5	7
92	Human brain dynamics in active spatial navigation. <i>Scientific Reports</i> , 2021 , 11, 13036	4.9	3
91	The impact of hand movement velocity on cognitive conflict processing in a 3D object selection task in virtual reality. <i>NeuroImage</i> , 2021 , 226, 117578	7.9	6
90	Peripheral visual perception during natural overground dual-task walking in older and younger adults. <i>Neurobiology of Aging</i> , 2021 , 98, 146-159	5.6	5
89	The AudioMaze: An EEG and motion capture study of human spatial navigation in sparse augmented reality. <i>European Journal of Neuroscience</i> , 2021 ,	3.5	4
88	The brain dynamics of architectural affordances during transition. <i>Scientific Reports</i> , 2021 , 11, 2796	4.9	12
87	EEG beta-modulations reflect age-specific motor resource allocation during dual-task walking. <i>Scientific Reports</i> , 2021 , 11, 16110	4.9	2
86	Human cortical dynamics during full-body heading changes. <i>Scientific Reports</i> , 2021 , 11, 18186	4.9	9
85	Landmark-based navigation instructions improve incidental spatial knowledge acquisition in real-world environments. <i>Journal of Environmental Psychology</i> , 2021 , 77, 101677	6.7	6

84	A three-armed cognitive-motor exercise intervention to increase spatial orientation and life-space mobility in nursing home residents: study protocol of a randomized controlled trial in the PROfit project. <i>BMC Geriatrics</i> , 2020 , 20, 437	4.1	2
83	. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2020 , 12, 354-360	3	3
82	Mobile brain/body Imaging in dance: A dynamic transdisciplinary field for applied research. <i>European Journal of Neuroscience</i> , 2020 ,	3.5	3
81	Identifying key factors for improving ICA-based decomposition of EEG data in mobile and stationary experiments. <i>European Journal of Neuroscience</i> , 2020 ,	3.5	26
80	Alteration of brain dynamics during dual-task overground walking. <i>European Journal of Neuroscience</i> , 2020 ,	3.5	7
79	Emotional evaluation of architectural interior forms based on personality differences using virtual reality. <i>Frontiers of Architectural Research</i> , 2020 , 9, 138-147	2.3	7
78	Eye movement-related brain potentials during assisted navigation in real-world environments. <i>European Journal of Neuroscience</i> , 2020 ,	3.5	4
77	User-Centered Extension of a Locomotion Typology: Movement-Related Sensory Feedback and Spatial Learning 2019 ,		6
76	Understanding Perceptual Experience of Art Using Mobile Brain/Body Imaging 2019 , 265-282		4
75	Sensorimotor brain dynamics reflect architectural affordances. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14769-14778	11.5	33
74	Detecting Visuo-Haptic Mismatches in Virtual Reality using the Prediction Error Negativity of Event-Related Brain Potentials 2019 ,		16
73	The Use of Electroencephalography in Neuroergonomics 2019 , 11-15		3
72	MoBI Mobile Brain/Body Imaging 2019 , 59-63		11
71	Visual Appearance Modulates Prediction Error in Virtual Reality. <i>IEEE Access</i> , 2018 , 6, 24617-24624	3.5	20
70	SEREEGA: Simulating event-related EEG activity. <i>Journal of Neuroscience Methods</i> , 2018 , 309, 13-24	3	14
69	Electrocortical Evidence for Long-Term Incidental Spatial Learning Through Modified Navigation Instructions. <i>Lecture Notes in Computer Science</i> , 2018 , 261-278	0.9	7
68	Granger causal connectivity dissociates navigation networks that subserve allocentric and egocentric path integration. <i>Brain Research</i> , 2018 , 1679, 91-100	3.7	6
67	Investigating Established EEG Parameter During Real-World Driving. <i>Frontiers in Psychology</i> , 2018 , 9, 2289	3.4	17

66	The Invisible Maze Task (IMT): Interactive Exploration of Sparse Virtual Environments to Investigate Action-Driven Formation of Spatial Representations. <i>Lecture Notes in Computer Science</i> , 2018 , 293-310	0.9	8
65	Two Independent Frontal Midline Theta Oscillations during Conflict Detection and Adaptation in a Simon-Type Manual Reaching Task. <i>Journal of Neuroscience</i> , 2017 , 37, 2504-2515	6.6	51
64	Automated Task Load Detection with Electroencephalography: Towards Passive Brain-Computer Interfacing in Robotic Surgery. <i>Journal of Medical Robotics Research</i> , 2017 , 02, 1750003	1.1	12
63	Brain connectivity during encoding and retrieval of spatial information: individual differences in navigation skills. <i>Brain Informatics</i> , 2017 , 4, 207-217	5.9	2
62	Modified Navigation Instructions for Spatial Navigation Assistance Systems Lead to Incidental Spatial Learning. <i>Frontiers in Psychology</i> , 2017 , 8, 193	3.4	25
61	Evaluation of a Dry EEG System for Application of Passive Brain-Computer Interfaces in Autonomous Driving. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 78	3.3	41
60	Affective Aspects of Perceived Loss of Control and Potential Implications for Brain-Computer Interfaces. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 370	3.3	2
59	Walking through Architectural Spaces: The Impact of Interior Forms on Human Brain Dynamics. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 477	3.3	57
58	Mobile Brain/Body Imaging (MoBI) of Physical Interaction with Dynamically Moving Objects. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 306	3.3	44
57	A task-independent workload classifier for neuroadaptive technology: Preliminary data 2016 ,		3
56	Neuroadaptive technology enables implicit cursor control based on medial prefrontal cortex activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14898-14903	11.5	79
55	Electrophysiological evidence for an attentional bias in processing body stimuli in bulimia nervosa. <i>Biological Psychology</i> , 2015 , 108, 105-14	3.2	23
54	Cultural background shapes spatial reference frame proclivity. <i>Scientific Reports</i> , 2015 , 5, 11426	4.9	36
53	Imaging natural cognition in action. <i>International Journal of Psychophysiology</i> , 2014 , 91, 22-9	2.9	111
52	Toward a new cognitive neuroscience: modeling natural brain dynamics. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 444	3.3	50
51	Brain dynamics that correlate with effects of learning on auditory distance perception. <i>Frontiers in Neuroscience</i> , 2014 , 8, 396	5.1	9
50	Embodiment of Spatial Reference Frames and Individual Differences in Reference Frame Proclivity. <i>Spatial Cognition and Computation</i> , 2013 , 13, 1-25	1.3	50
49	On the embodiment of emotion regulation: interoceptive awareness facilitates reappraisal. <i>Social Cognitive and Affective Neuroscience</i> , 2013 , 8, 911-7	4	237

48	Neurocognitive and somatic components of temperature increases during g-tummo meditation: legend and reality. <i>PLoS ONE</i> , 2013 , 8, e58244	3.7	27
47	Different strategies for spatial updating in yaw and pitch path integration. <i>Frontiers in Behavioral Neuroscience</i> , 2013 , 7, 5	3.5	18
46	Encoding of physics concepts: concreteness and presentation modality reflected by human brain dynamics. <i>PLoS ONE</i> , 2012 , 7, e41784	3.7	9
45	Alpha modulation in parietal and retrosplenial cortex correlates with navigation performance. <i>Psychophysiology</i> , 2012 , 49, 43-55	4.1	31
44	Attenuated modulation of brain activity accompanies emotion regulation deficits in alexithymia. <i>Psychophysiology</i> , 2012 , 49, 651-8	4.1	31
43	Brain oscillations in switching vs. focusing audio-visual attention. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 352-5	0.9	8
42	Switching Spatial Reference Frames for Yaw and Pitch Navigation. <i>Spatial Cognition and Computation</i> , 2012 , 12, 159-194	1.3	13
41	Electrophysiologic evidence for multilevel deficits in emotional face processing in patients with bulimia nervosa. <i>Psychosomatic Medicine</i> , 2012 , 74, 736-44	3.7	18
40	Familiarity with speech affects cortical processing of auditory distance cues and increases acuity. <i>PLoS ONE</i> , 2012 , 7, e41025	3.7	12
39	Electrocortical activity is coupled to gait cycle phase during treadmill walking. <i>NeuroImage</i> , 2011 , 54, 1289-96	7.9	312
38	Electrophysiological evidence of early processing deficits in alexithymia. <i>Biological Psychology</i> , 2011 , 87, 113-21	3.2	29
37	This ought to be good: brain activity accompanying positive and negative expectations and outcomes. <i>Psychophysiology</i> , 2011 , 48, 1412-9	4.1	22
36	Cognition in action: imaging brain/body dynamics in mobile humans. <i>Reviews in the Neurosciences</i> , 2011 , 22, 593-608	4.7	165
35	Stimulus saliency modulates pre-attentive processing speed in human visual cortex. <i>PLoS ONE</i> , 2011 , 6, e16276	3.7	73
34	Visual evoked responses during standing and walking. <i>Frontiers in Human Neuroscience</i> , 2010 , 4, 202	3.3	146
33	Wireless physiological monitoring and ocular tracking: 3D calibration in a fully-immersive virtual health care environment. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4464-7	0.9	3
32	Human brain dynamics accompanying use of egocentric and allocentric reference frames during navigation. <i>Journal of Cognitive Neuroscience</i> , 2010 , 22, 2836-49	3.1	107
31	Removal of movement artifact from high-density EEG recorded during walking and running. <i>Journal of Neurophysiology</i> , 2010 , 103, 3526-34	3.2	416

30	Top-down weighting of visual dimensions: behavioral and electrophysiological evidence. <i>Vision Research</i> , 2010 , 50, 1372-81	2.1	45
29	Dimension-based attention modulates early visual processing. <i>Psychophysiology</i> , 2010 , 47, 968-78	4.1	16
28	Human EEG Correlates of Spatial Navigation within Egocentric and Allocentric Reference Frames. <i>Lecture Notes in Computer Science</i> , 2010 , 191-206	0.9	24
27	EEG-Based Spatial Navigation Estimation in a Virtual Reality Driving Environment 2009 ,		6
26	The anterior N1 component as an index of modality shifting. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 1653-69	3.1	32
25	Eye-movements during navigation in a virtual tunnel. <i>International Journal of Neuroscience</i> , 2009 , 119, 1755-78	2	15
24	Beamforming in noninvasive brain-computer interfaces. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 1209-19	5	119
23	Electrophysiological correlates of flicker-induced color hallucinations. <i>Consciousness and Cognition</i> , 2009 , 18, 266-76	2.6	22
22	Linking brain, mind and behavior. <i>International Journal of Psychophysiology</i> , 2009 , 73, 95-100	2.9	231
21	Straight after the turn: the role of the parietal lobes in egocentric space processing. <i>Neurocase</i> , 2008 , 14, 204-19	0.8	20
20	Electrophysiological markers of visual dimension changes and response changes. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2008 , 34, 531-42	2.6	92
19	Impaired central processing of emotional faces in anorexia nervosa. <i>Psychosomatic Medicine</i> , 2008 , 70, 701-8	3.7	80
18	Neural systems connecting interoceptive awareness and feelings. <i>Human Brain Mapping</i> , 2007 , 28, 9-18	5.9	218
17	Brain electrical correlates of dimensional weighting: an ERP study. <i>Psychophysiology</i> , 2007 , 44, 277-92	4.1	30
16	The neural basis of ego- and allocentric reference frames in spatial navigation: evidence from spatio-temporal coupled current density reconstruction. <i>Brain Research</i> , 2006 , 1118, 116-29	3.7	53
15	Electrophysiological correlates of similarity-based interference during detection of visual forms. <i>Journal of Cognitive Neuroscience</i> , 2006 , 18, 880-8	3.1	26
14	Evidence of separable spatial representations in a virtual navigation task. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2005 , 31, 1199-1223	2.6	82
13	Landmark information included in turn-by-turn instructions induce incidental acquisition of lasting route knowledge. <i>Spatial Cognition and Computation</i> , 1-26	1.3	1

12	Electrocortical Evidence for Long-Term Incidental Spatial Learning Through Modified Navigation Instructions	1
11	Landmark-Based Turn-by-Turn Instructions Enhance Incidental Spatial Knowledge Acquisition	1
10	The Impact of Hand Movement Velocity on Cognitive Conflict Processing in a 3D Object Selection Task in Virtual Reality	2
9	Identifying key factors for improving ICA-based decomposition of EEG data in mobile and stationary experiments	5
8	Eye-movement related brain potentials during assisted navigation in real-world	2
7	Architectural Affordance Impacts Human Sensorimotor Brain Dynamics	2
6	Human retrosplenial theta and alpha modulation in active spatial navigation	1
5	Investigating established EEG parameter during real-world driving	1
4	The Invisible Maze Task (IMT): Interactive Exploration of Sparse Virtual Environments to Investigate Action-Driven Formation of Spatial Representations	1
3	Human cortical dynamics during full-body heading changes	6
2	A Bayesian framework for unifying data cleaning, source separation and imaging of electroencephalographic signals	2
1	Landmark-Based Navigation Instructions Improve Incidental Spatial Knowledge Acquisition in Real-World Environments	2