Jochem W Rieger

List of Publications by Year
in descending order

63 papers	2,683 citations	279487 23 h-index	197535 49 g-index
70 all docs	70 docs citations	70 times ranked	3422 citing authors

#	Article	IF	Citations
1	Categorical speech representation in human superior temporal gyrus. Nature Neuroscience, 2010, 13, 1428-1432.	7.1	484
2	Audiovisual Temporal Correspondence Modulates Human Multisensory Superior Temporal Sulcus Plus Primary Sensory Cortices. Journal of Neuroscience, 2007, 27, 11431-11441.	1.7	279
3	Sensory and cognitive contributions of color to the recognition of natural scenes. Current Biology, 2000, 10, 805-808.	1.8	233
4	Functional measurements of human ventral occipital cortex: retinotopy and colour. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 963-973.	1.8	231
5	Decoding spectrotemporal features of overt and covert speech from the human cortex. Frontiers in Neuroengineering, 2014, 7, 14.	4.8	144
6	The Neural Site of Attention Matches the Spatial Scale of Perception. Journal of Neuroscience, 2006, 26, 3532-3540.	1.7	116
7	Encoding and Decoding Models in Cognitive Electrophysiology. Frontiers in Systems Neuroscience, 2017, 11, 61.	1.2	116
8	PyMVPA: a unifying approach to the analysis of neuroscientific data. Frontiers in Neuroinformatics, 2009, 3, 3.	1.3	98
9	Rapid tuning shifts in human auditory cortex enhance speech intelligibility. Nature Communications, 2016, 7, 13654.	5.8	71
10	Assessing the Driver's Current Level of Working Memory Load with High Density Functional Near-infrared Spectroscopy: A Realistic Driving Simulator Study. Frontiers in Human Neuroscience, 2017, 11, 167.	1.0	67
11	Stimulus intensity affects early sensory processing: Visual contrast modulates evoked gamma-band activity in human EEG. International Journal of Psychophysiology, 2007, 66, 28-36.	0.5	52
12	Frontal and motor cortex contributions to response inhibition: evidence from electrocorticography. Journal of Neurophysiology, 2016, 115, 2224-2236.	0.9	48
13	Predicting the recognition of natural scenes from single trial MEG recordings of brain activity. NeuroImage, 2008, 42, 1056-1068.	2.1	44
14	Predicting Decisions in Human Social Interactions Using Real-Time fMRI and Pattern Classification. PLoS ONE, 2011, 6, e25304.	1.1	43
15	Hidden Markov model and support vector machine based decoding of finger movements using electrocorticography. Journal of Neural Engineering, 2013, 10, 056020.	1.8	39
16	Endoscopic eye tracking system for fMRI. Journal of Neuroscience Methods, 2007, 160, 10-15.	1.3	38
17	Recognizing Frustration of Drivers From Face Video Recordings and Brain Activation Measurements With Functional Near-Infrared Spectroscopy. Frontiers in Human Neuroscience, 2018, 12, 327.	1.0	37
18	The dynamics of visual pattern masking in natural scene processing: A magnetoencephalography study. Journal of Vision, 2005, 5, 10.	0.1	33

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19	Interpolation Processes in the Perception of Real and Illusory Contours. Perception, 1997, 26, 1445-1458.	0.5	31
20	Cortical Functional Anatomy of Voluntary Saccades in Parkinson Disease. Clinical EEG and Neuroscience, 2008, 39, 169-174.	0.9	29
21	Tradeoff between User Experience and BCI Classification Accuracy with Frequency Modulated Steady-State Visual Evoked Potentials. Frontiers in Human Neuroscience, 2017, 11, 391.	1.0	28
22	Online tracking of the contents of conscious perception using real-time fMRI. Frontiers in Neuroscience, 2014, 8, 116.	1.4	26
23	Qualitative assessment of patientsâ€™ attitudes and expectations toward BCIs and implications for future technology development. Frontiers in Systems Neuroscience, 2015, 9, 64.	1.2	25
24	Analysis of a choice-reaction task yields a new interpretation of Libet's experiments. International Journal of Psychophysiology, 2007, 67, 151-7.	0.5	23
25	The appearance of figures seen through a narrow aperture under free viewing conditions: Effects of spontaneous eye motions. Journal of Vision, 2007, 7, 10.	0.1	23
26	The effect of retinal stabilization on anorthoscopic percepts under free-viewing conditions. Vision Research, 2005, 45, 567-582.	0.7	21
27	Speed limits: Orientation and semantic context interactions constrain natural scene discrimination dynamics.. Journal of Experimental Psychology: Human Perception and Performance, 2008, 34, 56-76.	0.7	21
28	Electrocorticography reveals continuous auditory and visual speech tracking in temporal and occipital cortex. European Journal of Neuroscience, 2020, 51, 1364-1376.	1.2	19
29	Brain activity measured with fNIRS for the prediction of cognitive workload. , 2015, , .		18
30	Demonstrating Brain-Level Interactions Between Visuospatial Attentional Demands and Working Memory Load While Driving Using Functional Near-Infrared Spectroscopy. Frontiers in Human Neuroscience, 2018, 12, 542.	1.0	18
31	Different spatial organizations of saccade related BOLD-activation in parietal and striate cortex. Brain Research, 2008, 1233, 89-97.	1.1	17
32	Maximum noise fraction (MNF) transformation to remove ballistocardiographic artifacts in EEG signals recorded during fMRI scanning. NeuroImage, 2009, 46, 144-153.	2.1	17
33	Human centromedian-parafascicular complex signals sensory cues for goal-oriented behavior selection. NeuroImage, 2017, 152, 390-399.	2.1	15
34	Cortical and subcortical areas involved in the regulation of reach movement speed in the human brain: An fMRI study. Human Brain Mapping, 2019, 40, 151-162.	1.9	14
35	Effects of age-related hearing loss and hearing aid experience on sentence processing. Scientific Reports, 2021, 11, 5994.	1.6	14
36	BOLD responses in human V1 to local structure in natural scenes: Implications for theories of visual coding. Journal of Vision, 2013, 13, 19-19.	0.1	13

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37	Characterizing the Influence of Muscle Activity in fNIRS Brain Activation Measurements. IFAC-PapersOnLine, 2016, 49, 84-88.	0.5	12
38	An investigation into human-autonomous vs. human-human vehicle interaction in time-critical situations. , 2019, , .		12
39	Recommendations of Choice of Head Coil and Prescan Normalize Filter Depend on Region of Interest and Task. Frontiers in Neuroscience, 2021, 15, 735290.	1.4	9
40	Towards the integration and evaluation of online workload measures in a cognitive architecture. , 2016, , .		8
41	An MR-compatible gyroscope-based arm movement tracking system. Journal of Neuroscience Methods, 2017, 280, 16-26.	1.3	6
42	Science of design for societal-scale cyber-physical systems: challenges and opportunities. Cyber-Physical Systems, 2019, 5, 145-172.	1.6	6
43	Contrast sensitivity and appearance in briefly presented illusory figures. Spatial Vision, 1999, 12, 329-344.	1.4	5
44	Brain Oscillation Entrainment by Perceptible and Non-perceptible Rhythmic Light Stimulation. Frontiers in Neuroergonomics, 2021, 2, .	0.6	5
45	Generalizable dimensions of human cortical auditory processing of speech in natural soundscapes: A data-driven ultra high field fMRI approach. NeuroImage, 2021, 237, 118106.	2.1	4
46	Investigating Differences in Behavior and Brain in Human-Human and Human-Autonomous Vehicle Interactions in Time-Critical Situations. Frontiers in Neuroergonomics, 2022, 3, .	0.6	4
47	Opportunities and Limitations of a Gaze-Contingent Display to Simulate Visual Field Loss in Driving Simulator Studies. Frontiers in Neuroergonomics, 0, 3, .	0.6	4
48	Neural Mechanisms Underlying the Processing of Complex Sentences: An fMRI Study. Neurobiology of Language (Cambridge, Mass), 2020, 1, 226-248.	1.7	3
49	When Hearing Does Not Mean Understanding: On the Neural Processing of Syntactically Complex Sentences by Listeners With Hearing Loss. Journal of Speech, Language, and Hearing Research, 2021, 64, 250-262.	0.7	3
50	Sublexical cues affect degraded speech processing: insights from fMRI. Cerebral Cortex Communications, 2022, 3, tgac007.	0.7	3
51	High-gamma mirror activity patterns in the human brain during reach-to-grasp movement observation, retention, and execution€"An MEG study. PLoS ONE, 2021, 16, e0260304.	1.1	3
52	Sentence processing is modulated by the current linguistic environment and a priori information: An fMRI study. Brain and Behavior, 2019, 9, e01308.	1.0	2
53	Development of a Mobile Functional Near-infrared Spectroscopy Prototype and its Initial Evaluation. , 2018, , .		1
54	Monte Carlo Methods for Real-Time Driver Workload Estimation Using a Cognitive Architecture. Topics in Intelligent Engineering and Informatics, 2019, , 25-48.	0.4	1

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55	Evaluation of graphical human-machine interfaces for turning manoeuvres in automated vehicles. , 2021, , .		1
56	Neural Responses to Speech-Specific Modulations Derived from a Spectro-Temporal Filter Bank. , 0, , .		1
57	Real-Time Feedback of Subjective Affect and Working Memory Load Based on Neurophysiological Activity. Communications in Computer and Information Science, 2021, , 80-87.	0.4	1
58	Estimating Cognitive Workload Levels While Driving Using Functional Near-Infrared Spectroscopy (fNIRS). , 2018, , 205-206.		0
59	Assessing Driver Frustration Using Functional Near-Infrared Spectroscopy (fNIRS). , 2018, , 215-216.		0
60	Modelling Turning Intention in Unsignalized Intersections with Bayesian Networks. Communications in Computer and Information Science, 2021, , 289-296.	0.4	0
61	Brain-Controlled Selection of Objects Combined with Autonomous Robotic Grasping. Springer Series in Computational Neuroscience, 2015, , 65-77.	0.3	0
62	Demonstrating brain-level interactions between working memory load and driving demand level using fNIRS. Frontiers in Human Neuroscience, 0, 12, .	1.0	0
63	Demonstrating brain-level interactions between working memory load and frustration while driving using functional near-infrared spectroscopy. Frontiers in Human Neuroscience, 0, 12, .	1.0	0