

# Jochem W Rieger

## List of Publications by Citations

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

59  
papers

2,014  
citations

20  
h-index

44  
g-index

70  
ext. papers

2,367  
ext. citations

4  
avg, IF

4.63  
L-index

#	Paper	IF	Citations
59	Categorical speech representation in human superior temporal gyrus. <i>Nature Neuroscience</i> , <b>2010</b> , 13, 1428-32	25.5	387
58	Audiovisual temporal correspondence modulates human multisensory superior temporal sulcus plus primary sensory cortices. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 11431-41	6.6	234
57	Sensory and cognitive contributions of color to the recognition of natural scenes. <i>Current Biology</i> , <b>2000</b> , 10, 805-8	6.3	199
56	Functional measurements of human ventral occipital cortex: retinotopy and colour. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2002</b> , 357, 963-73	5.8	180
55	Decoding spectrotemporal features of overt and covert speech from the human cortex. <i>Frontiers in Neuroengineering</i> , <b>2014</b> , 7, 14		107
54	The neural site of attention matches the spatial scale of perception. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 3532-40	6.6	106
53	PyMVPA: A Unifying Approach to the Analysis of Neuroscientific Data. <i>Frontiers in Neuroinformatics</i> , <b>2009</b> , 3, 3	3.9	89
52	Encoding and Decoding Models in Cognitive Electrophysiology. <i>Frontiers in Systems Neuroscience</i> , <b>2017</b> , 11, 61	3.5	55
51	Rapid tuning shifts in human auditory cortex enhance speech intelligibility. <i>Nature Communications</i> , <b>2016</b> , 7, 13654	17.4	48
50	Assessing the Driver's Current Level of Working Memory Load with High Density Functional Near-infrared Spectroscopy: A Realistic Driving Simulator Study. <i>Frontiers in Human Neuroscience</i> , <b>2017</b> , 11, 167	3.3	44
49	Stimulus intensity affects early sensory processing: visual contrast modulates evoked gamma-band activity in human EEG. <i>International Journal of Psychophysiology</i> , <b>2007</b> , 66, 28-36	2.9	41
48	Predicting the recognition of natural scenes from single trial MEG recordings of brain activity. <i>NeuroImage</i> , <b>2008</b> , 42, 1056-68	7.9	37
47	Predicting decisions in human social interactions using real-time fMRI and pattern classification. <i>PLoS ONE</i> , <b>2011</b> , 6, e25304	3.7	34
46	Endoscopic eye tracking system for fMRI. <i>Journal of Neuroscience Methods</i> , <b>2007</b> , 160, 10-5	3	34
45	Hidden Markov model and support vector machine based decoding of finger movements using electrocorticography. <i>Journal of Neural Engineering</i> , <b>2013</b> , 10, 056020	5	27
44	Frontal and motor cortex contributions to response inhibition: evidence from electrocorticography. <i>Journal of Neurophysiology</i> , <b>2016</b> , 115, 2224-36	3.2	27
43	Interpolation processes in the perception of real and illusory contours. <i>Perception</i> , <b>1997</b> , 26, 1445-58	1.2	26

42	Cortical functional anatomy of voluntary saccades in Parkinson disease. <i>Clinical EEG and Neuroscience</i> , <b>2008</b> , 39, 169-74	2.3	26
41	The dynamics of visual pattern masking in natural scene processing: a magnetoencephalography study. <i>Journal of Vision</i> , <b>2005</b> , 5, 275-86	0.4	25
40	Online tracking of the contents of conscious perception using real-time fMRI. <i>Frontiers in Neuroscience</i> , <b>2014</b> , 8, 116	5.1	21
39	The effect of retinal stabilization on anorthoscopic percepts under free-viewing conditions. <i>Vision Research</i> , <b>2005</b> , 45, 567-82	2.1	20
38	Recognizing Frustration of Drivers From Face Video Recordings and Brain Activation Measurements With Functional Near-Infrared Spectroscopy. <i>Frontiers in Human Neuroscience</i> , <b>2018</b> , 12, 327	3.3	19
37	Qualitative assessment of patients' attitudes and expectations toward BCI and implications for future technology development. <i>Frontiers in Systems Neuroscience</i> , <b>2015</b> , 9, 64	3.5	18
36	Speed limits: orientation and semantic context interactions constrain natural scene discrimination dynamics. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , <b>2008</b> , 34, 56-76	2.6	17
35	Analysis of a choice-reaction task yields a new interpretation of Libet's experiments. <i>International Journal of Psychophysiology</i> , <b>2008</b> , 67, 151-7	2.9	16
34	Maximum noise fraction (MNF) transformation to remove ballistocardiographic artifacts in EEG signals recorded during fMRI scanning. <i>NeuroImage</i> , <b>2009</b> , 46, 144-53	7.9	15
33	Different spatial organizations of saccade related BOLD-activation in parietal and striate cortex. <i>Brain Research</i> , <b>2008</b> , 1233, 89-97	3.7	15
32	Brain activity measured with fNIRS for the prediction of cognitive workload <b>2015</b> ,		13
31	Tradeoff between User Experience and BCI Classification Accuracy with Frequency Modulated Steady-State Visual Evoked Potentials. <i>Frontiers in Human Neuroscience</i> , <b>2017</b> , 11, 391	3.3	12
30	The appearance of figures seen through a narrow aperture under free viewing conditions: effects of spontaneous eye motions. <i>Journal of Vision</i> , <b>2007</b> , 7, 10	0.4	12
29	Electrocorticography reveals continuous auditory and visual speech tracking in temporal and occipital cortex. <i>European Journal of Neuroscience</i> , <b>2020</b> , 51, 1364-1376	3.5	12
28	Demonstrating Brain-Level Interactions Between Visuospatial Attentional Demands and Working Memory Load While Driving Using Functional Near-Infrared Spectroscopy. <i>Frontiers in Human Neuroscience</i> , <b>2018</b> , 12, 542	3.3	11
27	Human centromedian-parafascicular complex signals sensory cues for goal-oriented behavior selection. <i>NeuroImage</i> , <b>2017</b> , 152, 390-399	7.9	10
26	Characterizing the Influence of Muscle Activity in fNIRS Brain Activation Measurements. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 84-88	0.7	10
25	BOLD responses in human V1 to local structure in natural scenes: Implications for theories of visual coding. <i>Journal of Vision</i> , <b>2013</b> , 13, 19	0.4	9

24	Towards the integration and evaluation of online workload measures in a cognitive architecture <b>2016</b> ,		8
23	Cortical and subcortical areas involved in the regulation of reach movement speed in the human brain: An fMRI study. <i>Human Brain Mapping</i> , <b>2019</b> , 40, 151-162	5.9	8
22	Effects of age-related hearing loss and hearing aid experience on sentence processing. <i>Scientific Reports</i> , <b>2021</b> , 11, 5994	4.9	6
21	An MR-compatible gyroscope-based arm movement tracking system. <i>Journal of Neuroscience Methods</i> , <b>2017</b> , 280, 16-26	3	4
20	An investigation into human-autonomous vs. human-human vehicle interaction in time-critical situations <b>2019</b> ,		4
19	Contrast sensitivity and appearance in briefly presented illusory figures. <i>Spatial Vision</i> , <b>1999</b> , 12, 329-44		3
18	When Hearing Does Not Mean Understanding: On the Neural Processing of Syntactically Complex Sentences by Listeners With Hearing Loss. <i>Journal of Speech, Language, and Hearing Research</i> , <b>2021</b> , 64, 250-262	2.8	3
17	Sentence processing is modulated by the current linguistic environment and a priori information: An fMRI study. <i>Brain and Behavior</i> , <b>2019</b> , 9, e01308	3.4	2
16	Science of design for societal-scale cyber-physical systems: challenges and opportunities. <i>Cyber-Physical Systems</i> , <b>2019</b> , 5, 145-172	1.1	2
15	Brain Oscillation Entrainment by Perceptible and Non-perceptible Rhythmic Light Stimulation. <i>Frontiers in Neuroergonomics</i> , <b>2021</b> , 2,	5.3	2
14	Neural Mechanisms Underlying the Processing of Complex Sentences: An fMRI Study. <i>Neurobiology of Language (Cambridge, Mass)</i> , <b>2020</b> , 1, 226-248	2.6	2
13	Development of a Mobile Functional Near-infrared Spectroscopy Prototype and its Initial Evaluation <b>2018</b> ,		1
12	Recommendations of Choice of Head Coil and Prescan Normalize Filter Depend on Region of Interest and Task. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 735290	5.1	1
11	Investigating the Modulation of Spatio-Temporal and Oscillatory Power Dynamics by Perceptible and Non-perceptible Rhythmic Light Stimulation. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 11-19	0.5	1
10	A Causal Model of Intersection-Related Collisions for Drivers With and Without Visual Field Loss. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 219-234	0.9	0
9	Generalizable dimensions of human cortical auditory processing of speech in natural soundscapes: A data-driven ultra high field fMRI approach. <i>NeuroImage</i> , <b>2021</b> , 237, 118106	7.9	0
8	High-gamma mirror activity patterns in the human brain during reach-to-grasp movement observation, retention, and execution-An MEG study. <i>PLoS ONE</i> , <b>2021</b> , 16, e0260304	3.7	0
7	Real-Time Feedback of Subjective Affect and Working Memory Load Based on Neurophysiological Activity. <i>Communications in Computer and Information Science</i> , <b>2021</b> , 80-87	0.3	

- 6 Brain-Controlled Selection of Objects Combined with Autonomous Robotic Grasping. *Springer Series in Computational Neuroscience*, **2015**, 65-77 1.1
- 5 Monte Carlo Methods for Real-Time Driver Workload Estimation Using a Cognitive Architecture. *Topics in Intelligent Engineering and Informatics*, **2019**, 25-48 0.4
- 4 Modelling Turning Intention in Unsignalized Intersections with Bayesian Networks. *Communications in Computer and Information Science*, **2021**, 289-296 0.3
- 3 Estimating Cognitive Workload Levels While Driving Using Functional Near-Infrared Spectroscopy (fNIRS) **2018**, 205-206
- 2 Assessing Driver Frustration Using Functional Near-Infrared Spectroscopy (fNIRS) **2018**, 215-216
- 1 Sublexical cues affect degraded speech processing: insights from fMRI.. *Cerebral Cortex Communications*, **2022**, 3, tgac007 1.9