

Torsten Baldeweg

List of Publications by Year in descending order

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102
papers

7,347
citations

61984

43
h-index

58581

82
g-index

111
all docs

111
docs citations

111
times ranked

8598
citing authors

#	ARTICLE	IF	CITATIONS
1	Synaptic Plasticity and Dysconnection in Schizophrenia. <i>Biological Psychiatry</i> , 2006, 59, 929-939.	1.3	755
2	The functional anatomy of the MMN: A DCM study of the roving paradigm. <i>NeuroImage</i> , 2008, 42, 936-944.	4.2	392
3	Language fMRI abnormalities associated with FOXP2 gene mutation. <i>Nature Neuroscience</i> , 2003, 6, 1230-1237.	14.8	342
4	A Possible Role for Gap Junctions in Generation of Very Fast EEG Oscillations Preceding the Onset of, and Perhaps Initiating, Seizures. <i>Epilepsia</i> , 2008, 42, 153-170.	5.1	308
5	Mismatch negativity potentials and cognitive impairment in schizophrenia. <i>Schizophrenia Research</i> , 2004, 69, 203-217.	2.0	264
6	Event-Related Brain Potential Correlates of Human Auditory Sensory Memory-Trace Formation. <i>Journal of Neuroscience</i> , 2005, 25, 10494-10501.	3.6	235
7	Axonal Gap Junctions Between Principal Neurons: A Novel Source of Network Oscillations, and Perhaps Epileptogenesis. <i>Reviews in the Neurosciences</i> , 2002, 13, 1-30.	2.9	207
8	β -band electroencephalographic oscillations in a patient with somatic hallucinations. <i>Lancet, The</i> , 1998, 352, 620-621.	13.7	206
9	Repetition effects to sounds: evidence for predictive coding in the auditory system. <i>Trends in Cognitive Sciences</i> , 2006, 10, 93-94.	7.8	195
10	Repetition suppression and plasticity in the human brain. <i>NeuroImage</i> , 2009, 48, 269-279.	4.2	192
11	The mismatch negativity: an index of cognitive decline in neuropsychiatric and neurological diseases and in ageing. <i>Brain</i> , 2011, 134, 3435-3453.	7.6	180
12	The Development of Intellectual Abilities in Pediatric Temporal Lobe Epilepsy. <i>Epilepsia</i> , 2007, 48, 201-4.	5.1	140
13	Maturation of action monitoring from adolescence to adulthood: an ERP study. <i>Developmental Science</i> , 2005, 8, 525-534.	2.4	130
14	Interactions between "What" and "When" in the Auditory System: Temporal Predictability Enhances Repetition Suppression. <i>Journal of Neuroscience</i> , 2011, 31, 18590-18597.	3.6	129
15	COMT Val108/158Met Modifies Mismatch Negativity and Cognitive Function in 22q11 Deletion Syndrome. <i>Biological Psychiatry</i> , 2005, 58, 23-31.	1.3	126
16	Human memory development and its dysfunction after early hippocampal injury. <i>Trends in Neurosciences</i> , 2006, 29, 374-381.	8.6	117
17	Impairment in frontal but not temporal components of mismatch negativity in schizophrenia. <i>International Journal of Psychophysiology</i> , 2002, 43, 111-122.	1.0	111
18	Nicotinic modulation of human auditory sensory memory: Evidence from mismatch negativity potentials. <i>International Journal of Psychophysiology</i> , 2006, 59, 49-58.	1.0	100

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19	Interhemispheric temporal lobe connectivity predicts language impairment in adolescents born preterm. <i>Brain</i> , 2012, 135, 3781-3798.	7.6	100
20	ERP Repetition Effects and Mismatch Negativity Generation. <i>Journal of Psychophysiology</i> , 2007, 21, 204-213.	0.7	100
21	Electrophysiological Evidence of Serotonergic Impairment in Long-Term MDMA (‘Ecstasy’) Users. <i>American Journal of Psychiatry</i> , 2001, 158, 1687-1692.	7.2	97
22	Identification and interpretation of microstructural abnormalities in motor pathways in adolescents born preterm. <i>NeuroImage</i> , 2014, 87, 209-219.	4.2	92
23	Hypnosis and event-related potential correlates of error processing in a stroop-type paradigm: a test of the frontal hypothesis. <i>International Journal of Psychophysiology</i> , 1997, 27, 215-222.	1.0	91
24	Temporal lobe surgery in childhood and neuroanatomical predictors of long-term declarative memory outcome. <i>Brain</i> , 2015, 138, 80-93.	7.6	90
25	Mismatch negativity indexes illness-specific impairments of cortical plasticity in schizophrenia: A comparison with bipolar disorder and Alzheimer's disease. <i>International Journal of Psychophysiology</i> , 2015, 95, 145-155.	1.0	89
26	Total brain white matter is a major determinant of IQ in adolescents born preterm. <i>Annals of Neurology</i> , 2011, 69, 702-711.	5.3	86
27	Maturation of language networks in children: A systematic review of 22years of functional MRI. <i>NeuroImage</i> , 2015, 123, 269-281.	4.2	84
28	Novel surface features for automated detection of focal cortical dysplasias in paediatric epilepsy. <i>NeuroImage: Clinical</i> , 2017, 14, 18-27.	2.7	84
29	Speaking with a single cerebral hemisphere: fMRI language organization after hemispherectomy in childhood. <i>Brain and Language</i> , 2008, 106, 195-203.	1.6	82
30	Heterogeneity in the Patterns of Neural Abnormality in Autistic Spectrum Disorders: Evidence from ERP and MRI. <i>Cortex</i> , 2007, 43, 686-699.	2.4	80
31	A meta-analysis of cognitive outcome following coronary artery bypass graft surgery. <i>Neuroscience and Biobehavioral Reviews</i> , 2012, 36, 2118-2129.	6.1	80
32	Impact of frontal white matter lesions on performance monitoring: ERP evidence for cortical disconnection. <i>Brain</i> , 2006, 129, 2177-2188.	7.6	78
33	Neonatal Hypoxia, Hippocampal Atrophy, and Memory Impairment: Evidence of a Causal Sequence. <i>Cerebral Cortex</i> , 2015, 25, 1469-1476.	2.9	77
34	Identification of a human synaptotagmin-1 mutation that perturbs synaptic vesicle cycling. <i>Journal of Clinical Investigation</i> , 2015, 125, 1670-8.	8.2	75
35	Detecting white matter injury in sickle cell disease using voxel-based morphometry. <i>Annals of Neurology</i> , 2006, 59, 662-672.	5.3	71
36	The Psychosocial Impact of HIV Infection in Gay Men, Drug Users and Heterosexuals. <i>British Journal of Psychiatry</i> , 1993, 163, 651-659.	2.8	65

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37	Spatiotemporal patterns of electrocorticographic very fast oscillations (>80 Hz) consistent with a network model based on electrical coupling between principal neurons. <i>Epilepsia</i> , 2010, 51, 1587-1597.	5.1	65
38	Language deficits and altered hemispheric lateralization in young people in remission from BECTS. <i>Epilepsia</i> , 2011, 52, e79-83.	5.1	61
39	Acute dopamine D1 and D2 receptor stimulation does not modulate mismatch negativity (MMN) in healthy human subjects. <i>Psychopharmacology</i> , 2007, 194, 443-451.	3.1	59
40	Extra-hippocampal grey matter density abnormalities in paediatric mesial temporal sclerosis. <i>NeuroImage</i> , 2005, 27, 635-643.	4.2	57
41	The Source of Afterdischarge Activity in Neocortical Tonic-Clonic Epilepsy. <i>Journal of Neuroscience</i> , 2007, 27, 13513-13519.	3.6	57
42	Calcium imaging and dynamic causal modelling reveal brain-wide changes in effective connectivity and synaptic dynamics during epileptic seizures. <i>PLoS Computational Biology</i> , 2018, 14, e1006375.	3.2	57
43	Cognitive neuroscience using wearable magnetometer arrays: Non-invasive assessment of language function. <i>NeuroImage</i> , 2018, 181, 513-520.	4.2	56
44	Neurological features of epilepsy, ataxia, sensorineural deafness, tubulopathy syndrome. <i>Developmental Medicine and Child Neurology</i> , 2013, 55, 846-856.	2.1	53
45	FIACH: A biophysical model for automatic retrospective noise control in fMRI. <i>NeuroImage</i> , 2016, 124, 1009-1020.	4.2	53
46	Differential changes in frontal and sub-temporal components of mismatch negativity. <i>International Journal of Psychophysiology</i> , 1999, 33, 143-148.	1.0	45
47	Interictal epileptiform discharges have an independent association with cognitive impairment in children with lesional epilepsy. <i>Epilepsia</i> , 2016, 57, 1436-1442.	5.1	43
48	Hippocampal atrophy in temporal lobe epilepsy is correlated with limbic systems atrophy. <i>Journal of Neurology</i> , 2006, 253, 294-300.	3.6	41
49	Cortical lateralization during verb generation: a combined ERP and fMRI study. <i>NeuroImage</i> , 2004, 22, 665-675.	4.2	39
50	Neurophysiological evidence for cognitive and brain functional adaptation in adolescents living at high altitude. <i>Clinical Neurophysiology</i> , 2011, 122, 1726-1734.	1.5	39
51	NMDA-receptor antibodies alter cortical microcircuit dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9916-E9925.	7.1	39
52	Cerebral proton magnetic resonance spectroscopy in asymptomatic HIV infection. <i>Aids</i> , 1997, 11, 289-295.	2.2	38
53	Development of aptitude at altitude. <i>Developmental Science</i> , 2010, 13, 533-544.	2.4	38
54	Interhemispheric differences of spectral power in expressive language: A MEG study with clinical applications. <i>International Journal of Psychophysiology</i> , 2008, 68, 111-122.	1.0	37

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55	Atlas of lesion locations and postsurgical seizure freedom in focal cortical dysplasia: A MELD study. <i>Epilepsia</i> , 2022, 63, 61-74.	5.1	36
56	Prospective associations between lateralised brain function and immune status in HIV infection: Analysis of EEG, cognition and mood over 30 months. <i>International Journal of Psychophysiology</i> , 1996, 23, 215-224.	1.0	34
57	Towards in vivo focal cortical dysplasia phenotyping using quantitative MRI. <i>NeuroImage: Clinical</i> , 2017, 15, 95-105.	2.7	34
58	Audiovisual speech integration in autism spectrum disorders: ERP evidence for atypicalities in lexicalâ€semantic processing. <i>Autism Research</i> , 2012, 5, 39-48.	3.8	33
59	Hippocampal damage and memory impairment in congenital cyanotic heart disease. <i>Hippocampus</i> , 2017, 27, 417-424.	1.9	32
60	Determinants of IQ outcome after focal epilepsy surgery in childhood: A longitudinal caseâ€control neuroimaging study. <i>Epilepsia</i> , 2019, 60, 872-884.	5.1	32
61	Epilepsy, cognitive deficits and neuroanatomy in males with <i>ZDHHC9</i> mutations. <i>Annals of Clinical and Translational Neurology</i> , 2015, 2, 559-569.	3.7	31
62	Selective Prefrontal Disinhibition in a Roving Auditory Oddball Paradigm Under N-Methyl-D-Aspartate Receptor Blockade. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 140-150.	1.5	31
63	Memory in paediatric temporal lobe epilepsy: Effects of lesion type and side. <i>Epilepsy Research</i> , 2012, 98, 255-259.	1.6	30
64	A Possible Role for Gap Junctions in Generation of Very Fast EEG Oscillations Preceding the Onset of, and Perhaps Initiating, Seizures. <i>Epilepsia</i> , 2003, 42, 153-170.	5.1	28
65	Neurophysiological changes associated with psychiatric symptoms in HIV-infected individuals without AIDS. <i>Biological Psychiatry</i> , 1997, 41, 474-487.	1.3	27
66	The ERP signature of sound rise time changes. <i>Brain Research</i> , 2009, 1254, 74-83.	2.2	25
67	Does sleep benefit memory consolidation in children with focal epilepsy?. <i>Epilepsia</i> , 2017, 58, 456-466.	5.1	25
68	Vulnerability of the ventral language network in children with focal epilepsy. <i>Brain</i> , 2014, 137, 2245-2257.	7.6	24
69	Developmental conduction aphasia after neonatal stroke. <i>Annals of Neurology</i> , 2018, 83, 664-675.	5.3	24
70	Neuroanatomy in adolescents and young adults with 22q11 Deletion Syndrome: Comparison to an IQ-matched group. <i>NeuroImage</i> , 2011, 55, 491-499.	4.2	23
71	Asymmetry of planum temporale constrains interhemispheric language plasticity in children with focal epilepsy. <i>Brain</i> , 2013, 136, 3163-3175.	7.6	23
72	Neuropsychiatric aspects of HIV-1 infection in gay men: Controlled investigation of psychiatric, neuropsychological and neurological status. <i>Journal of Psychosomatic Research</i> , 1993, 37, 819-830.	2.6	22

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73	Network dynamics in the healthy and epileptic developing brain. <i>Network Neuroscience</i> , 2018, 2, 41-59.	2.6	22
74	Cortical abnormalities and language function in young patients with basal ganglia stroke. <i>NeuroImage</i> , 2007, 36, 431-440.	4.2	21
75	Changing patterns of neuropsychological functioning in children living at high altitude above and below 4000m: a report from the Bolivian Children Living at Altitude (BoCLA) study. <i>Developmental Science</i> , 2011, 14, 1185-1193.	2.4	19
76	Topographic principles of cortical fluid-attenuated inversion recovery signal in temporal lobe epilepsy. <i>Epilepsia</i> , 2018, 59, 627-635.	5.1	19
77	Survival and Mortality in Older Adults Living at High Altitude in Bolivia: A Preliminary Report. <i>Journal of the American Geriatrics Society</i> , 2009, 57, 1955-1956.	2.6	18
78	Planning stereoelectroencephalography using automated lesion detection: Retrospective feasibility study. <i>Epilepsia</i> , 2020, 61, 1406-1416.	5.1	17
79	MRI profiling of focal cortical dysplasia using multi-compartment diffusion models. <i>Epilepsia</i> , 2020, 61, 433-444.	5.1	16
80	Remission of progressive multifocal leucoencephalopathy after antiretroviral therapy. <i>Lancet</i> , The, 1997, 349, 1555.	13.7	14
81	Neurophysiological evaluation of zidovudine in asymptomatic HIV-1 infection: a longitudinal placebo-controlled study. <i>Journal of the Neurological Sciences</i> , 1995, 132, 162-169.	0.6	13
82	Do behavior and emotions improve after pediatric epilepsy surgery? A systematic review. <i>Epilepsia</i> , 2019, 60, 885-897.	5.1	13
83	Detection of subclinical motor dysfunctions in early symptomatic HIV infection with topographical EEG. <i>International Journal of Psychophysiology</i> , 1993, 15, 227-238.	1.0	11
84	Quantitative MRI susceptibility mapping reveals cortical signatures of changes in iron, calcium and zinc in malformations of cortical development in children with drug-resistant epilepsy. <i>NeuroImage</i> , 2021, 238, 118102.	4.2	11
85	Pre- and postsurgical cognitive trajectories and quantitative MRI changes in Rasmussen syndrome. <i>Epilepsia</i> , 2018, 59, 1210-1219.	5.1	10
86	A specific cognitive deficit within semantic cognition across a multi-generational family. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3652-3661.	2.6	9
87	Temporal lobe impairment in West syndrome: Event-related potential evidence. <i>Annals of Neurology</i> , 2015, 77, 47-57.	5.3	9
88	Seizure initiation in infantile spasms vs. focal seizures: proposed common cellular mechanisms. <i>Reviews in the Neurosciences</i> , 2020, 31, 181-200.	2.9	9
89	A Functional MRI Paradigm Suitable for Language and Memory Mapping in Pediatric Temporal Lobe Epilepsy. <i>Frontiers in Neurology</i> , 2019, 10, 1384.	2.4	9
90	Immunomodulation With Azathioprine Therapy in Rasmussen Syndrome. <i>Neurology</i> , 2021, 96, e267-e279.	1.1	8

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91	Multimodal computational neocortical anatomy in pediatric hippocampal sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 1200-1210.	3.7	7
92	Motor Abilities in Adolescents Born Preterm Are Associated With Microstructure of the Corpus Callosum. <i>Frontiers in Neurology</i> , 2019, 10, 367.	2.4	7
93	Corticobulbar Tract Injury, Oromotor Impairment and Language Plasticity in Adolescents Born Preterm. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 45.	2.0	6
94	Psychophysiology and neurophysiology of HIV infection. <i>International Review of Psychiatry</i> , 1991, 3, 331-341.	2.8	5
95	Functional magnetic resonance imaging in clinical practice: State of the art and science. <i>Australian Family Physician</i> , 2016, 45, 798-803.	0.5	5
96	Long-Term Cognitive Outcomes After Epilepsy Surgery in Children. , 2015, , 85-101.		4
97	IDEAL approach to the evaluation of machine learning technology in epilepsy surgery: protocol for the MAST trial. <i>BMJ Surgery, Interventions, and Health Technologies</i> , 2022, 4, e000109.	0.9	4
98	The Pair Test: A computerised measure of learning and memory. <i>Behavior Research Methods</i> , 2021, 53, 928-942.	4.0	3
99	Sleep architecture and memory consolidation in children with focal epilepsy. <i>Lancet, The</i> , 2016, 387, S24.	13.7	2
100	A multidimensional artefact-reduction approach to increase robustness of first-level fMRI analyses: Censoring vs. interpolating. <i>Journal of Neuroscience Methods</i> , 2019, 318, 56-68.	2.5	1
101	Clinical Neurophysiology. , 0, , 234-250.		1
102	NITRIC OXIDE METABOLISM IN HIV-1 INFECTION. <i>Aids</i> , 1994, 8, S28.	2.2	0