Hauke Bartsch

List of Publications by Year in descending order

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84 papers	7,354 citations	136885 32 h-index	69214 77 g-index

92 all docs	92 docs citations	92 times ranked	9817 citing authors

#	Article	IF	Citations
1	The Adolescent Brain Cognitive Development (ABCD) study: Imaging acquisition across 21 sites. Developmental Cognitive Neuroscience, 2018, 32, 43-54.	1.9	1,282
2	Family income, parental education and brain structure in children and adolescents. Nature Neuroscience, 2015, 18, 773-778.	7.1	979
3	Image processing and analysis methods for the Adolescent Brain Cognitive Development Study. NeuroImage, 2019, 202, 116091.	2.1	539
4	Long COVID in a prospective cohort of home-isolated patients. Nature Medicine, 2021, 27, 1607-1613.	15.2	453
5	The Pediatric Imaging, Neurocognition, and Genetics (PING) Data Repository. NeuroImage, 2016, 124, 1149-1154.	2.1	251
6	Adolescent brain cognitive development (ABCD) study: Overview of substance use assessment methods. Developmental Cognitive Neuroscience, 2018, 32, 80-96.	1.9	250
7	Development and aging of cortical thickness correspond to genetic organization patterns. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15462-15467.	3.3	228
8	Multimodal imaging of the self-regulating developing brain. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19620-19625.	3.3	192
9	Diffusion-Weighted Imaging in Cancer: Physical Foundations and Applications of Restriction Spectrum Imaging. Cancer Research, 2014, 74, 4638-4652.	0.4	179
10	Neurodevelopmental origins of lifespan changes in brain and cognition. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9357-9362.	3.3	163
11	Long-term influence of normal variation in neonatal characteristics on human brain development. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20089-20094.	3.3	158
12	Volume of the Human Hippocampus and Clinical Response Following Electroconvulsive Therapy. Biological Psychiatry, 2018, 84, 574-581.	0.7	138
13	Postmortem examination of patient H.M.â€™s brain based on histological sectioning and digital 3D reconstruction. Nature Communications, 2014, 5, 3122.	5.8	136
14	Brain volume reductions in adolescent heavy drinkers. Developmental Cognitive Neuroscience, 2014, 9, 117-125.	1.9	122
15	Characterization and Correction of Geometric Distortions in 814 Diffusion Weighted Images. PLoS ONE, 2016, 11, e0152472.	1.1	116
16	Screen media activity and brain structure in youth: Evidence for diverse structural correlation networks from the ABCD study. NeuroImage, 2019, 185, 140-153.	2.1	109
17	Meaningful associations in the adolescent brain cognitive development study. NeuroImage, 2021, 239, 118262.	2.1	108
18	Dose-dependent white matter damage after brain radiotherapy. Radiotherapy and Oncology, 2016, 121, 209-216.	0.3	98

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19	Genomeâ€wide association study of shared components of reading disability and language impairment. Genes, Brain and Behavior, 2013, 12, 792-801.	1.1	95
20	Dose-Dependent Cortical Thinning After Partial Brain Irradiation in High-Grade Glioma. International Journal of Radiation Oncology Biology Physics, 2016, 94, 297-304.	0.4	95
21	Regional susceptibility to dose-dependent white matter damage after brain radiotherapy. Radiotherapy and Oncology, 2017, 123, 209-217.	0.3	92
22	Radiation Doseâ€"Dependent Hippocampal Atrophy Detected With Longitudinal Volumetric Magnetic Resonance Imaging. International Journal of Radiation Oncology Biology Physics, 2017, 97, 263-269.	0.4	88
23	Individual differences in frontolimbic circuitry and anxiety emerge with adolescent changes in endocannabinoid signaling across species. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4500-4505.	3.3	72
24	Brain morphology in school-aged children with prenatal opioid exposure: A structural MRI study. Early Human Development, 2017, 106-107, 33-39.	0.8	72
25	Brain Changes Induced by Electroconvulsive Therapy Are Broadly Distributed. Biological Psychiatry, 2020, 87, 451-461.	0.7	72
26	The Global ECT-MRI Research Collaboration (GEMRIC): Establishing a multi-site investigation of the neural mechanisms underlying response to electroconvulsive therapy. NeuroImage: Clinical, 2017, 14, 422-432.	1.4	68
27	Cerebral Cortex Regions Selectively Vulnerable to Radiation Dose-Dependent Atrophy. International Journal of Radiation Oncology Biology Physics, 2017, 97, 910-918.	0.4	66
28	Electric field causes volumetric changes in the human brain. ELife, 2019, 8, .	2.8	57
29	Distortion inherent to magnetic resonance imaging can lead to geometric miss in radiosurgery planning. Practical Radiation Oncology, 2016, 6, e319-e328.	1.1	50
30	Resting-State Magnetoencephalography Reveals Different Patterns of Aberrant Functional Connectivity in Combat-Related Mild Traumatic Brain Injury. Journal of Neurotrauma, 2017, 34, 1412-1426.	1.7	44
31	Anxiety is related to indices of cortical maturation in typically developing children and adolescents. Brain Structure and Function, 2016, 221, 3013-3025.	1.2	43
32	Restriction spectrum imaging: An evolving imaging biomarker in prostate MRI. Journal of Magnetic Resonance Imaging, 2017, 45, 323-336.	1.9	42
33	Recovery of White Matter Tracts in Regions of Peritumoral FLAIR Hyperintensity with Use of Restriction Spectrum Imaging. American Journal of Neuroradiology, 2013, 34, 1157-1163.	1.2	40
34	Attack rates amongst household members of outpatients with confirmed COVID-19 in Bergen, Norway: A case-ascertained study. Lancet Regional Health - Europe, The, 2021, 3, 100014.	3.0	39
35	Diencephalic-mesencephalic junction dysplasia: a novel recessive brain malformation. Brain, 2012, 135, 2416-2427.	3.7	34
36	Modeling the 3D Geometry of the Cortical Surface with Genetic Ancestry. Current Biology, 2015, 25, 1988-1992.	1.8	34

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37	Williams syndrome-specific neuroanatomical profile and its associations with behavioral features. NeuroImage: Clinical, 2017, 15, 343-347.	1.4	33
38	A web-portal for interactive data exploration, visualization, and hypothesis testing. Frontiers in Neuroinformatics, 2014, 8, 25.	1.3	32
39	Novel technique for characterizing prostate cancer utilizing MRI restriction spectrum imaging: proof of principle and initial clinical experience with extraprostatic extension. Prostate Cancer and Prostatic Diseases, 2015, 18, 81-85.	2.0	31
40	Structural changes induced by electroconvulsive therapy are associated with clinical outcome. Brain Stimulation, 2020, 13, 696-704.	0.7	31
41	SARS-CoV-2â€“Specific Neutralizing Antibody Responses in Norwegian Health Care Workers After the First Wave of COVID-19 Pandemic: A Prospective Cohort Study. Journal of Infectious Diseases, 2021, 223, 589-599.	1.9	31
42	Global Visual Motion Sensitivity: Associations with Parietal Area and Children's Mathematical Cognition. Journal of Cognitive Neuroscience, 2016, 28, 1897-1908.	1.1	30
43	Toward an integrative science of the developing human mind and brain: Focus on the developing cortex. Developmental Cognitive Neuroscience, 2016, 18, 2-11.	1.9	30
44	Prostate diffusion imaging with distortion correction. Magnetic Resonance Imaging, 2015, 33, 1178-1181.	1.0	29
45	Dyslexia and language impairment associated genetic markers influence cortical thickness and white matter in typically developing children. Brain Imaging and Behavior, 2016, 10, 272-282.	1.1	27
46	Microstructural brain changes track cognitive decline in mild cognitive impairment. NeuroImage: Clinical, 2018, 20, 883-891.	1.4	26
47	Sensitivity of restriction spectrum imaging to memory and neuropathology in Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2017, 9, 55.	3.0	25
48	Radiation sparing of cerebral cortex in brain tumor patients using quantitative neuroimaging. Radiotherapy and Oncology, 2016, 118, 29-34.	0.3	24
49	Altered Network Topology in Patients with Primary Brain Tumors After Fractionated Radiotherapy. Brain Connectivity, 2017, 7, 299-308.	0.8	23
50	A mean-field model for orientation tuning, contrast saturation, and contextual effects in the primary visual cortex. Biological Cybernetics, 2000, 82, 291-304.	0.6	22
51	Steeper Slope of Age-Related Changes in White Matter Microstructure and Processing Speed in Bipolar Disorder. American Journal of Geriatric Psychiatry, 2017, 25, 744-752.	0.6	22
52	Restriction spectrum imaging predicts response to bevacizumab in patients with high-grade glioma. Neuro-Oncology, 2016, 18, now063.	0.6	21
53	MRI-Derived Restriction Spectrum Imaging Cellularity Index is Associated with High Grade Prostate Cancer on Radical Prostatectomy Specimens. Frontiers in Oncology, 2015, 5, 30.	1.3	20
54	Restriction spectrum imaging improves MRI-based prostate cancer detection. Abdominal Radiology, 2016, 41, 946-953.	1.0	20

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55	Voxel Level Radiologicâ€“Pathologic Validation of Restriction Spectrum Imaging Cellularity Index with Gleason Grade in Prostate Cancer. Clinical Cancer Research, 2016, 22, 2668-2674.	3.2	19
56	Go/No Go task performance predicts cortical thickness in the caudal inferior frontal gyrus in young adults with and without ADHD. Brain Imaging and Behavior, 2016, 10, 880-892.	1.1	19
57	Substance use patterns in 9-10 year olds: Baseline findings from the adolescent brain cognitive development (ABCD) study. Drug and Alcohol Dependence, 2021, 227, 108946.	1.6	19
58	In vivo prostate cancer detection and grading using restriction spectrum imaging-MRI. Prostate Cancer and Prostatic Diseases, 2016, 19, 168-173.	2.0	16
59	Conservation of Distinct Genetically-Mediated Human Cortical Pattern. PLoS Genetics, 2016, 12, e1006143.	1.5	15
60	VISUALIZING NEURONAL STRUCTURES IN THE HUMAN BRAIN VIA DIFFUSION TENSOR MRI. International Journal of Neuroscience, 2006, 116, 461-514.	0.8	14
61	Enhanced volume rendering techniques for high-resolution color cryo-imaging data. , 2009, 7262, 72655V.		14
62	Diagnostic utility of restriction spectrum imaging (RSI) in glioblastoma patients after concurrent radiation-temozolomide treatment: A pilot study. Journal of Clinical Neuroscience, 2018, 58, 136-141.	0.8	12
63	Correction of Artifacts Induced by <scp>B₀</scp> Inhomogeneities in Breast <scp>MRI</scp> Using Reducedâ€<scp>Fieldâ€ofâ€View Echoâ€Planar</scp> Imaging and Enhanced Reversed Polarity Gradient Method. Journal of Magnetic Resonance Imaging, 2021, 53, 1581-1591.	1.9	10
64	Short and long-term effects of single and multiple sessions of electroconvulsive therapy on brain gray matter volumes. Brain Stimulation, 2021, 14, 1330-1339.	0.7	10
65	Implementing an iterative reconstruction algorithm for digital breast tomosynthesis on graphics processing hardware. , 2006, , .		9
66	Schizophrenia-risk variant rs6994992 in the neuregulin-1 gene on brain developmental trajectories in typically developing children. Translational Psychiatry, 2014, 4, e392-e392.	2.4	9
67	Restriction Spectrum Imaging Improves Risk Stratification in Patients with Glioblastoma. American Journal of Neuroradiology, 2017, 38, 882-889.	1.2	9
68	Morphology of the Amazonian Teleost Genus Arapaima Using Advanced 3D Imaging. Frontiers in Physiology, 2020, 11, 260.	1.3	9
69	Fully Automatic Whole-Volume Tumor Segmentation in Cervical Cancer. Cancers, 2022, 14, 2372.	1.7	9
70	Restriction spectrum imaging of white matter and its relation to neurological disability in multiple sclerosis. Multiple Sclerosis Journal, 2019, 25, 687-698.	1.4	8
71	Characterization of the diffusion signal of breast tissues using multiâ€exponential models. Magnetic Resonance in Medicine, 2022, 87, 1938-1951.	1.9	8
72	Second-order statistics of natural images. Neurocomputing, 2003, 52-54, 467-472.	3.5	7

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73	Automated Determination of Axonal Orientation in the Deep White Matter of the Human Brain. Brain Connectivity, 2012, 2, 284-290.	0.8	6
74	Neurovascular Network Explorer 2.0: A Database of 2-Photon Single-Vessel Diameter Measurements from Mouse SI Cortex in Response To Optogenetic Stimulation. Frontiers in Neuroinformatics, 2017, 11, 4.	1.3	4
75	Elevated body weight modulates subcortical volume change and associated clinical response following electroconvulsive therapy. Journal of Psychiatry and Neuroscience, 2021, 46, E418-E426.	1.4	4
76	Correction: Diffusion-Weighted Imaging in Cancer: Physical Foundations and Applications of Restriction Spectrum Imaging. Cancer Research, 2014, 74, 6733-6733.	0.4	3
77	The influence of threshold variability on the response of visual cortical neurons. Neurocomputing, 2000, 32-33, 37-43.	3.5	2
78	Contextual effects by short range connections in a mean-field model of V1. Neurocomputing, 2001, 38-40, 475-481.	3.5	2
79	Implementing real-time adaptive filtering for medical applications on the cell processor using a generic multicore framework. , 2008, , .		1
80	OUP accepted manuscript. Schizophrenia Bulletin, 2021, , .	2.3	1
81	On the Influence of Threshold Variability in a Mean-Field Model of the Visual Cortex. Lecture Notes in Computer Science, 2001, , 174-187.	1.0	1
82	A structure preserving image transformation as the goal of visual sensory coding. Neurocomputing, 2002, 44-46, 729-734.	3.5	0
83	Neurovascular Network Explorer 2.0: A Simple Tool for Exploring and Sharing a Database of Optogenetically-evoked Vasomotion in Mouse Cortex In Vivo. Journal of Visualized Experiments, 2018, , .	0.2	0
84	Arterial input functions in dynamic susceptibility contrast MRI (DSC-MRI) in longitudinal evaluation of brain metastases. Acta Radiologica, 2023, 64, 1166-1174.	0.5	0