Henning U Voss

List of Publications by Year
in descending order

99 papers	11,275 citations	71102 41 h-index	33894 99 g-index
102 all docs	102 docs citations	102 times ranked	14355 citing authors

#	Article	IF	Citations
1	Resting-state connectivity biomarkers define neurophysiological subtypes of depression. Nature Medicine, 2017, 23, 28-38.	30.7	1,554
2	Earlier Development of the Accumbens Relative to Orbitofrontal Cortex Might Underlie Risk-Taking Behavior in Adolescents. Journal of Neuroscience, 2006, 26, 6885-6892.	3.6	1,084
3	Biological Substrates of Emotional Reactivity and Regulation in Adolescence During an Emotional Go-Nogo Task. Biological Psychiatry, 2008, 63, 927-934.	1.3	781
4	A Genetic Variant BDNF Polymorphism Alters Extinction Learning in Both Mouse and Human. Science, 2010, 327, 863-866.	12.6	541
5	Default Mode Network Mechanisms of Transcranial Magnetic Stimulation in Depression. Biological Psychiatry, 2014, 76, 517-526.	1.3	537
6	Riskâ€taking and the adolescent brain: who is at risk?. Developmental Science, 2007, 10, F8-F14.	2.4	462
7	Anticipating chaotic synchronization. Physical Review E, 2000, 61, 5115-5119.	2.1	452
8	Sympathetic Neuro-adipose Connections Mediate Leptin-Driven Lipolysis. Cell, 2015, 163, 84-94.	28.9	363
9	Human consciousness is supported by dynamic complex patterns of brain signal coordination. Science Advances, 2019, 5, eaat7603.	10.3	296
10	Intrinsic functional connectivity differentiates minimally conscious from unresponsive patients. Brain, 2015, 138, 2619-2631.	7.6	290
11	Cerebellothalamocortical Connectivity Regulates Penetrance in Dystonia. Journal of Neuroscience, 2009, 29, 9740-9747.	3.6	279
12	Comparison of three nonlinear seizure prediction methods by means of the seizure prediction characteristic. Physica D: Nonlinear Phenomena, 2004, 194, 357-368.	2.8	254
13	NONLINEAR DYNAMICAL SYSTEM IDENTIFICATION FROM UNCERTAIN AND INDIRECT MEASUREMENTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1905-1933.	1.7	251
14	Dissociations between behavioural and functional magnetic resonance imaging-based evaluations of cognitive function after brain injury. Brain, 2011, 134, 769-782.	7.6	249
15	Dietary salt promotes neurovascular and cognitive dysfunction through a gut-initiated TH17 response. Nature Neuroscience, 2018, 21, 240-249.	14.8	242
16	Network diffusion accurately models the relationship between structural and functional brain connectivity networks. NeuroImage, 2014, 90, 335-347.	4.2	234
17	The seizure prediction characteristic: a general framework to assess and compare seizure prediction methods. Epilepsy and Behavior, 2003, 4, 318-325.	1.7	219
18	Leptin regulates the reward value of nutrient. Nature Neuroscience, 2011, 14, 1562-1568.	14.8	201

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19	How well can epileptic seizures be predicted? An evaluation of a nonlinear method. Brain, 2003, 126, 2616-2626.	7.6	147
20	Behavioral and Neural Properties of Social Reinforcement Learning. Journal of Neuroscience, 2011, 31, 13039-13045.	3.6	138
21	Preservation of electroencephalographic organization in patients with impaired consciousness and imagingâ€based evidence of commandâ€following. Annals of Neurology, 2014, 76, 869-879.	5.3	129
22	Reconstruction of non-linear time delay models from data by the use of optimal transformations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 234, 336-344.	2.1	122
23	The bivalent side of the nucleus accumbens. NeuroImage, 2009, 44, 1178-1187.	4.2	101
24	ApoÎµ4 disrupts neurovascular regulation and undermines white matter integrity and cognitive function. Nature Communications, 2018, 9, 3816.	12.8	100
25	Characterization of EEG signals revealing covert cognition in the injured brain. Brain, 2018, 141, 1404-1421.	7.6	92
26	Progranulin Deficiency Promotes Post-Ischemic Bloodâ€“Brain Barrier Disruption. Journal of Neuroscience, 2013, 33, 19579-19589.	3.6	85
27	Amplitude Equations from Spatiotemporal Binary-Fluid Convection Data. Physical Review Letters, 1999, 83, 3422-3425.	7.8	83
28	Parameter estimation in nonlinear delayed feedback systems fromÂnoisy data. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 299, 513-521.	2.1	76
29	Functional MRI of the zebra finch brain during song stimulation suggests a lateralized response topography. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10667-10672.	7.1	75
30	Therapeutic hypothermia and hypoxiaâ€“ischemia in the term-equivalent neonatal rat: characterization of a translational preclinical model. Pediatric Research, 2015, 78, 264-271.	2.3	71
31	Analyzing fMRI experiments with structural adaptive smoothing procedures. NeuroImage, 2006, 33, 55-62.	4.2	69
32	REAL-TIME ANTICIPATION OF CHAOTIC STATES OF AN ELECTRONIC CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1619-1625.	1.7	66
33	Parametric, nonparametric and parametric modelling of a chaotic circuit time series. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 274, 123-134.	2.1	57
34	Pattern Classification of Volitional Functional Magnetic Resonance Imaging Responses in Patients With Severe Brain Injury. Archives of Neurology, 2012, 69, 176.	4.5	54
35	Using 3D printed eggs to examine the egg-rejection behaviour of wild birds. PeerJ, 2015, 3, e965.	2.0	54
36	The aftermath of 9/11: Effect of intensity and recency of trauma on outcome.. Emotion, 2007, 7, 227-238.	1.8	53

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37	High-field functional magnetic resonance imaging of vocalization processing in marmosets. Scientific Reports, 2015, 5, 10950.	3.3	53
38	Identification of continuous, spatiotemporal systems. Physical Review E, 1998, 57, 2820-2823.	2.1	51
39	Diffusion tensor imaging: Structural adaptive smoothing. NeuroImage, 2008, 39, 1763-1773.	4.2	51
40	MRI of neuronal network structure, function, and plasticity. Progress in Brain Research, 2009, 175, 483-496.	1.4	51
41	Investigation of musicality in birdsong. Hearing Research, 2014, 308, 71-83.	2.0	49
42	Sensitivity of the nucleus accumbens to violations in expectation of reward. NeuroImage, 2007, 34, 455-461.	4.2	47
43	The application of a mathematical model linking structural and functional connectomes in severe brain injury. NeuroImage: Clinical, 2016, 11, 635-647.	2.7	46
44	Fiber tracking in the cervical spine and inferior brain regions with reversed gradient diffusion tensor imaging. Magnetic Resonance Imaging, 2006, 24, 231-239.	1.8	45
45	Dichotomous Effects of Chronic Intermittent Hypoxia on Focal Cerebral Ischemic Injury. Stroke, 2014, 45, 1460-1467.	2.0	44
46	Local changes in network structure contribute to late communication recovery after severe brain injury. Science Translational Medicine, 2016, 8, 368re5.	12.4	42
47	Position-orientation adaptive smoothing of diffusion weighted magnetic resonance data (POAS). Medical Image Analysis, 2012, 16, 1142-1155.	11.6	41
48	Open-Label, Short-Term, Repetitive Transcranial Magnetic Stimulation in Patients With Alzheimerâ€™s Disease With Functional Imaging Correlates and Literature Review. American Journal of Alzheimer's Disease and Other Dementias, 2014, 29, 248-255.	1.9	41
49	Correlation between resting state <scp>fMRI</scp> total neuronal activity and <scp>PET</scp> metabolism in healthy controls and patients with disorders of consciousness. Brain and Behavior, 2016, 6, e00424.	2.2	40
50	The development of stimulusâ€specific auditory responses requires song exposure in male but not female zebra finches. Developmental Neurobiology, 2010, 70, 28-40.	3.0	36
51	Arterial spin labeling and altered cerebral blood flow patterns in the minimally conscious state. Neurology, 2011, 77, 1518-1523.	1.1	34
52	Classical MÃ¶bius-Ring Resonators Exhibit Fermion-Boson Rotational Symmetry. Physical Review Letters, 2008, 101, 247701.	7.8	32
53	Multimodal imaging of recovery of functional networks associated with reversal of paradoxical herniation after cranioplasty. Clinical Imaging, 2011, 35, 253-258.	1.5	32
54	A backward time shift filter for nonlinear delayed-feedback systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 279, 207-214.	2.1	28

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55	Assessing Disease Severity in Late Infantile Neuronal Ceroid Lipofuscinosis Using Quantitative MR Diffusion-Weighted Imaging. American Journal of Neuroradiology, 2007, 28, 1232-1236.	2.4	28
56	Frontal Networks Associated With Command Following After Hemorrhagic Stroke. Stroke, 2015, 46, 49-57.	2.0	28
57	Linear and nonlinear time series analysis of the black hole candidate CygnusX-1. Physical Review E, 2000, 61, 1342-1352.	2.1	27
58	Empirical Dynamical System Modeling of ENSO Using Nonlinear Inverse Techniques. Journal of Physical Oceanography, 2001, 31, 1579-1598.	1.7	26
59	Signal prediction by anticipatory relaxation dynamics. Physical Review E, 2016, 93, 030201.	2.1	26
60	Monitoring the effects of BCNU chemotherapy Wafers (GliadelÂ®) in glioblastoma multiforme with proton magnetic resonance spectroscopic imaging at 3.0ÂTesla. Journal of Neuro-Oncology, 2007, 82, 103-110.	2.9	25
61	Prevalent and sex-biased breathing patterns modify functional connectivity MRI in young adults. Nature Communications, 2020, 11, 5290.	12.8	25
62	Equations of motion from chaotic data: A driven optical fiber ring resonator. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 256, 47-54.	2.1	23
63	Structural adaptive segmentation for statistical parametric mapping. NeuroImage, 2010, 52, 515-523.	4.2	23
64	High-resolution fMRI: Overcoming the signal-to-noise problem. Journal of Neuroscience Methods, 2009, 178, 357-365.	2.5	22
65	Local estimation of the noise level in MRI using structural adaptation. Medical Image Analysis, 2015, 20, 76-86.	11.6	21
66	Non-parametric identification of non-linear oscillating systems. Journal of Sound and Vibration, 2003, 267, 1157-1167.	3.9	20
67	Shared neural substrates for song discrimination in parental and parasitic songbirds. Neuroscience Letters, 2016, 622, 49-54.	2.1	20
68	Sexual dimorphism in striatal dopaminergic responses promotes monogamy in social songbirds. ELife, 2017, 6, .	6.0	20
69	Assessment of Disease Severity in Late Infantile Neuronal Ceroid Lipofuscinosis Using Multiparametric MR Imaging. American Journal of Neuroradiology, 2013, 34, 884-889.	2.4	19
70	Brain Regionâ€“Specific Degeneration with Disease Progression in Late Infantile Neuronal Ceroid Lipofuscinosis (CLN2 Disease). American Journal of Neuroradiology, 2016, 37, 1160-1169.	2.4	19
71	A negative group delay model for feedback-delayed manual tracking performance. Journal of Computational Neuroscience, 2016, 41, 295-304.	1.0	18
72	Modeling the orientation distribution function by mixtures of angular central Gaussian distributions. Journal of Neuroscience Methods, 2012, 203, 200-211.	2.5	17

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73	The strength and spread of the electric field induced by transcranial rotating permanent magnet stimulation in comparison with conventional transcranial magnetic stimulation. Journal of Neuroscience Methods, 2018, 309, 153-160.	2.5	17
74	Sparse learning of partial differential equations with structured dictionary matrix. Chaos, 2019, 29, 043130.	2.5	17
75	Altered Auditory BOLD Response to Conspecific Birdsong in Zebra Finches with Stuttered Syllables. PLoS ONE, 2010, 5, e14415.	2.5	16
76	Test for nonlinear dynamical behavior in symbol sequences. Physical Review E, 1998, 58, 1155-1158.	2.1	14
77	Phase Synchronization from Noisy Univariate Signals. Physical Review Letters, 2004, 93, 154103.	7.8	14
78	Accurate Localization of Brain Activity in Presurgical fMRI by Structure Adaptive Smoothing. IEEE Transactions on Medical Imaging, 2008, 27, 531-537.	8.9	14
79	Eyeâ€“Target Synchronization in Mild Traumatic Brain-injured Patients. Journal of Biological Physics, 2008, 34, 381-392.	1.5	13
80	Transcranial Brain Stimulation With Rapidly Spinning High-Field Permanent Magnets. IEEE Access, 2016, 4, 2520-2528.	4.2	13
81	Radioiodinated Capsids Facilitate In Vivo Non-Invasive Tracking of Adeno-Associated Gene Transfer Vectors. Scientific Reports, 2017, 7, 39594.	3.3	13
82	Neuronal expression of the mitochondrial protein prohibitin confers profound neuroprotection in a mouse model of focal cerebral ischemia. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1010-1020.	4.3	13
83	Normalization of DNA-Microarray Data by Nonlinear Correlation Maximization. Journal of Computational Biology, 2003, 10, 751-762.	1.6	11
84	High-Pass Two-Dimensional Ladder Network Resonators for Magnetic Resonance Imaging. IEEE Transactions on Biomedical Engineering, 2006, 53, 2590-2593.	4.2	11
85	A vascular-task response dependency and its application in functional imaging of brain tumors. Journal of Neuroscience Methods, 2019, 322, 10-22.	2.5	10
86	A quantitative synchronization model for smooth pursuit target tracking. Biological Cybernetics, 2007, 96, 309-322.	1.3	9
87	A delayed-feedback filter with negative group delay. Chaos, 2018, 28, 113113.	2.5	9
88	Quantitative intact specimen magnetic resonance microscopy at 3.0 T. Magnetic Resonance Imaging, 2009, 27, 672-680.	1.8	7
89	The Leaky Integrator with Recurrent Inhibition as a Predictor. Neural Computation, 2016, 28, 1498-1502.	2.2	6
90	Hypersampling of pseudo-periodic signals by analytic phase projection. Computers in Biology and Medicine, 2018, 98, 159-167.	7.0	6

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91	Magnetic resonance advection imaging of cerebrovascular pulse dynamics. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1223-1235.	4.3	5
92	On the parameter estimation problem of magnetic resonance advection imaging. Inverse Problems and Imaging, 2018, 12, 175-204.	1.1	5
93	A proposed role for routine EEGs in patients with consciousness disorders. Annals of Neurology, 2015, 77, 185-186.	5.3	4
94	Topological modes in radiofrequency resonator arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126177.	2.1	4
95	Degree of Brain Connectivity Predicts Eye-Tracking Variability. Journal of the Korean Physical Society, 2008, 53, 3468-3473.	0.7	4
96	Searching for Conservation Laws in Brain Dynamicsâ€"BOLD Flux and Source Imaging. Entropy, 2014, 16, 3689-3709.	2.2	3
97	A conjugate-gradient approach to the parameter estimation problem of magnetic resonance advection imaging. Inverse Problems in Science and Engineering, 2020, 28, 1154-1165.	1.2	2
98	A New Technique for Functional Imaging in Songbirds and Beyond. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 391-392.	4.3	1
99	Analysis of coexisting neuronal populations in optogenetic and conventional BOLD data. , 2012, , .		1