

Ralf Veit

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

9,994
citations

31949

53
h-index

36008

97
g-index

110
all docs

110
docs citations

110
times ranked

9154
citing authors

#	ARTICLE	IF	CITATIONS
1	Deficient Fear Conditioning in Psychopathy. Archives of General Psychiatry, 2005, 62, 799.	13.8	625
2	Physiological self-regulation of regional brain activity using real-time functional magnetic resonance imaging (fMRI): methodology and exemplary data. NeuroImage, 2003, 19, 577-586.	2.1	375
3	Principles of a Brain-Computer Interface (BCI) Based on Real-Time Functional Magnetic Resonance Imaging (fMRI). IEEE Transactions on Biomedical Engineering, 2004, 51, 966-970.	2.5	366
4	Regulation of emotional responses elicited by threat-related stimuli. Human Brain Mapping, 2007, 28, 409-423.	1.9	362
5	Brain circuits involved in emotional learning in antisocial behavior and social phobia in humans. Neuroscience Letters, 2002, 328, 233-236.	1.0	356
6	Regulation of anterior insular cortex activity using real-time fMRI. NeuroImage, 2007, 35, 1238-1246.	2.1	322
7	Processing of food pictures: Influence of hunger, gender and calorie content. Brain Research, 2010, 1350, 159-166.	1.1	249
8	The obese brain: Association of body mass index and insulin sensitivity with resting state network functional connectivity. Human Brain Mapping, 2012, 33, 1052-1061.	1.9	245
9	Acquired self-control of insula cortex modulates emotion recognition and brain network connectivity in schizophrenia. Human Brain Mapping, 2013, 34, 200-212.	1.9	242
10	Volitional Control of Anterior Insula Activity Modulates the Response to Aversive Stimuli. A Real-Time Functional Magnetic Resonance Imaging Study. Biological Psychiatry, 2010, 68, 425-432.	0.7	233
11	Self-regulation of local brain activity using real-time functional magnetic resonance imaging (fMRI). Journal of Physiology (Paris), 2004, 98, 357-373.	2.1	226
12	Real-time functional magnetic resonance imaging: methods and applications. Magnetic Resonance Imaging, 2007, 25, 989-1003.	1.0	224
13	Self-regulation of regional cortical activity using real-time fMRI: The right inferior frontal gyrus and linguistic processing. Human Brain Mapping, 2009, 30, 1605-1614.	1.9	219
14	Neural mechanisms of brain-computer interface control. NeuroImage, 2011, 55, 1779-1790.	2.1	205
15	Meta-analysis of real-time fMRI neurofeedback studies using individual participant data: How is brain regulation mediated?. NeuroImage, 2016, 124, 806-812.	2.1	204
16	Evidence for a different role of the ventral and dorsal medial prefrontal cortex for social reactive aggression: An interactive fMRI study. NeuroImage, 2007, 34, 470-478.	2.1	191
17	The Truth about Lying: Inhibition of the Anterior Prefrontal Cortex Improves Deceptive Behavior. Cerebral Cortex, 2010, 20, 205-213.	1.6	181
18	Real-time support vector classification and feedback of multiple emotional brain states. NeuroImage, 2011, 56, 753-765.	2.1	177

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19	fMRI Brain-Computer Interface: A Tool for Neuroscientific Research and Treatment. Computational Intelligence and Neuroscience, 2007, 2007, 1-10.	1.1	159
20	Real-time fMRI feedback training may improve chronic tinnitus. European Radiology, 2010, 20, 696-703.	2.3	159
21	The Brain of Opera Singers: Experience-Dependent Changes in Functional Activation. Cerebral Cortex, 2010, 20, 1144-1152.	1.6	159
22	Overt and imagined singing of an Italian aria. NeuroImage, 2007, 36, 889-900.	2.1	148
23	Subjective feeling of appetite modulates brain activity. NeuroImage, 2006, 32, 1273-1280.	2.1	145
24	Food related processes in the insular cortex. Frontiers in Human Neuroscience, 2013, 7, 499.	1.0	138
25	Insulin Modulates Food-Related Activity in the Central Nervous System. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 748-755.	1.8	135
26	Central Insulin Administration Improves Whole-Body Insulin Sensitivity via Hypothalamus and Parasympathetic Outputs in Men. Diabetes, 2014, 63, 4083-4088.	0.3	135
27	Neuronal mechanisms underlying control of a brain-computer interface. European Journal of Neuroscience, 2005, 21, 3169-3181.	1.2	132
28	Acquired Control of Ventral Premotor Cortex Activity by Feedback Training. Neurorehabilitation and Neural Repair, 2012, 26, 256-265.	1.4	129
29	Selective Insulin Resistance in Homeostatic and Cognitive Control Brain Areas in Overweight and Obese Adults. Diabetes Care, 2015, 38, 1044-1050.	4.3	126
30	Intraocular pressure changes: the influence of psychological stress and the Valsalva maneuver. Biological Psychology, 1999, 51, 43-57.	1.1	115
31	Differential cerebral activation during observation of expressive gestures and motor acts. Neuropsychologia, 2006, 44, 1787-1795.	0.7	114
32	Using real-time fMRI to learn voluntary regulation of the anterior insula in the presence of threat-related stimuli. Social Cognitive and Affective Neuroscience, 2012, 7, 623-634.	1.5	110
33	Specific white matter tissue microstructure changes associated with obesity. NeuroImage, 2016, 125, 36-44.	2.1	106
34	Resting-state functional connectivity of the human hypothalamus. Human Brain Mapping, 2014, 35, 6088-6096.	1.9	104
35	Manipulating motor performance and memory through real-time fMRI neurofeedback. Biological Psychology, 2015, 108, 85-97.	1.1	97
36	Reduced cortical thickness associated with visceral fat and BMI. NeuroImage: Clinical, 2014, 6, 307-311.	1.4	96

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37	Improvement and Decline in Tactile Discrimination Behavior after Cortical Plasticity Induced by Passive Tactile Coactivation. <i>Journal of Neuroscience</i> , 2004, 24, 442-446.	1.7	95
38	Functional Network Connectivity Underlying Food Processing: Disturbed Salience and Visual Processing in Overweight and Obese Adults. <i>Cerebral Cortex</i> , 2013, 23, 1247-1256.	1.6	95
39	Nasal insulin changes peripheral insulin sensitivity simultaneously with altered activity in homeostatic and reward-related human brain regions. <i>Diabetologia</i> , 2012, 55, 1773-1782.	2.9	94
40	Intranasal Insulin Modulates Intrinsic Reward and Prefrontal Circuitry of the Human Brain in Lean Women. <i>Neuroendocrinology</i> , 2013, 97, 176-182.	1.2	93
41	NMDA-receptor antagonist and morphine decrease CRPS-pain and cerebral pain representation. <i>Pain</i> , 2010, 151, 69-76.	2.0	91
42	fMRI Brain-Computer Interfaces. <i>IEEE Signal Processing Magazine</i> , 2008, 25, 95-106.	4.6	89
43	The human amygdala is sensitive to the valence of pictures and sounds irrespective of arousal: an fMRI study. <i>Social Cognitive and Affective Neuroscience</i> , 2008, 3, 233-243.	1.5	85
44	Altered brain activity in severely obese women may recover after Roux-en Y gastric bypass surgery. <i>International Journal of Obesity</i> , 2014, 38, 341-348.	1.6	81
45	Brain areas activated in fMRI during self-regulation of slow cortical potentials (SCPs). <i>Experimental Brain Research</i> , 2003, 152, 113-122.	0.7	80
46	Aberrant social and cerebral responding in a competitive reaction time paradigm in criminal psychopaths. <i>NeuroImage</i> , 2010, 49, 3365-3372.	2.1	78
47	Self-regulation of the anterior insula: Reinforcement learning using real-time fMRI neurofeedback. <i>NeuroImage</i> , 2014, 88, 113-124.	2.1	73
48	Differential effect of glucose ingestion on the neural processing of food stimuli in lean and overweight adults. <i>Human Brain Mapping</i> , 2014, 35, 918-928.	1.9	69
49	Volitional regulation of brain responses to food stimuli in overweight and obese subjects: A real-time fMRI feedback study. <i>Appetite</i> , 2017, 112, 188-195.	1.8	66
50	An EEG-Driven Brain-Computer Interface Combined With Functional Magnetic Resonance Imaging (fMRI). <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 971-974.	2.5	63
51	Intranasal insulin enhances brain functional connectivity mediating the relationship between adiposity and subjective feeling of hunger. <i>Scientific Reports</i> , 2017, 7, 1627.	1.6	63
52	Detection of Cerebral Reorganization Induced by Real-Time fMRI Feedback Training of Insula Activation. <i>Neurorehabilitation and Neural Repair</i> , 2011, 25, 259-267.	1.4	58
53	Real-time fMRI neurofeedback training to improve eating behavior by self-regulation of the dorsolateral prefrontal cortex: A randomized controlled trial in overweight and obese subjects. <i>NeuroImage</i> , 2019, 191, 596-609.	2.1	58
54	Functional imaging of stress urinary incontinence. <i>NeuroImage</i> , 2006, 29, 267-275.	2.1	57

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55	Volitional control of the anterior insula in criminal psychopaths using real-time fMRI neurofeedback: a pilot study. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 344.	1.0	51
56	BOLD Adaptation in Vibrotactile Stimulation: Neuronal Networks Involved in Frequency Discrimination. <i>Journal of Neurophysiology</i> , 2007, 97, 264-271.	0.9	49
57	Voxel-based morphometry in opera singers: Increased gray-matter volume in right somatosensory and auditory cortices. <i>NeuroImage</i> , 2016, 133, 477-483.	2.1	47
58	Dose-Dependent Effects of Intranasal Insulin on Resting-State Brain Activity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 253-262.	1.8	47
59	Brain self-regulation in criminal psychopaths. <i>Scientific Reports</i> , 2015, 5, 9426.	1.6	46
60	A preliminary report relating frequency of vaginal intercourse to heart rate variability, Valsalva ratio, blood pressure, and cohabitation status. <i>Biological Psychology</i> , 2000, 52, 251-257.	1.1	45
61	Inter-individual differences in successful perspective taking during pain perception mediates emotional responsiveness in self and others: An fMRI study. <i>NeuroImage</i> , 2013, 65, 387-394.	2.1	44
62	Variation in the obesity risk gene FTO determines the postprandial cerebral processing of food stimuli in the prefrontal cortex. <i>Molecular Metabolism</i> , 2014, 3, 109-113.	3.0	44
63	The Obese Brain Athlete: Self-Regulation of the Anterior Insula in Adiposity. <i>PLoS ONE</i> , 2012, 7, e42570.	1.1	44
64	Somatosensory evoked potentials during baroreceptor stimulation in chronic low back pain patients and normal controls. <i>International Journal of Psychophysiology</i> , 1997, 25, 201-210.	0.5	43
65	Empagliflozin Improves Insulin Sensitivity of the Hypothalamus in Humans With Prediabetes: A Randomized, Double-Blind, Placebo-Controlled, Phase 2 Trial. <i>Diabetes Care</i> , 2022, 45, 398-406.	4.3	43
66	Quantifying the Link between Anatomical Connectivity, Gray Matter Volume and Regional Cerebral Blood Flow: An Integrative MRI Study. <i>PLoS ONE</i> , 2011, 6, e14801.	1.1	42
67	Deactivation of Brain Areas During Self-Regulation of Slow Cortical Potentials in Seizure Patients. <i>Applied Psychophysiology Biofeedback</i> , 2006, 31, 85-94.	1.0	41
68	Effects of co-activation on cortical organization and discrimination performance. <i>NeuroReport</i> , 2004, 15, 2669-2672.	0.6	40
69	Fat intake modulates cerebral blood flow in homeostatic and gustatory brain areas in humans. <i>American Journal of Clinical Nutrition</i> , 2012, 95, 1342-1349.	2.2	40
70	Deficient fear conditioning in psychopathy as a function of interpersonal and affective disturbances. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 706.	1.0	40
71	Prefrontal brain asymmetry and aggression in imprisoned violent offenders. <i>Neuroscience Letters</i> , 2012, 515, 191-195.	1.0	36
72	Eating less or more – Mindset induced changes in neural correlates of pre-meal planning. <i>Appetite</i> , 2018, 125, 492-501.	1.8	36

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73	Dopamine Depletion Reduces Food-Related Reward Activity Independent of BMI. <i>Neuropsychopharmacology</i> , 2016, 41, 1551-1559.	2.8	33
74	Self-Regulation of Anterior Insula with Real-Time fMRI and Its Behavioral Effects in Obsessive-Compulsive Disorder: A Feasibility Study. <i>PLoS ONE</i> , 2015, 10, e0135872.	1.1	33
75	Cardiovascular autonomic dysregulation in users of MDMA ("Ecstasy"). <i>Psychopharmacology</i> , 1998, 136, 390-393.	1.5	30
76	Can we predict real-time fMRI neurofeedback learning success from pretraining brain activity?. <i>Human Brain Mapping</i> , 2020, 41, 3839-3854.	1.9	27
77	Differential effects of intranasal insulin and caffeine on cerebral blood flow. <i>Human Brain Mapping</i> , 2012, 33, 280-287.	1.9	26
78	Intentional social distance regulation alters affective responses towards victims of violence: An FMRI study. <i>Human Brain Mapping</i> , 2012, 33, 2464-2476.	1.9	25
79	Neuronal Food Reward Activity in Patients With Type 2 Diabetes With Improved Glycemic Control After Bariatric Surgery. <i>Diabetes Care</i> , 2016, 39, 1311-1317.	4.3	25
80	Differential α - and β -adrenergic activation during psychological stress. <i>European Journal of Applied Physiology</i> , 1997, 75, 256-262.	1.2	24
81	Health, pleasure, and fullness: changing mindset affects brain responses and portion size selection in adults with overweight and obesity. <i>International Journal of Obesity</i> , 2020, 44, 428-437.	1.6	22
82	Predictors of real-time fMRI neurofeedback performance and improvement – A machine learning mega-analysis. <i>NeuroImage</i> , 2021, 237, 118207.	2.1	22
83	Processing of inconsistent emotional information: an fMRI study. <i>Experimental Brain Research</i> , 2008, 186, 401-407.	0.7	20
84	Lie scores are associated with less cardiovascular reactivity to baroreceptor stimulation and to mental arithmetic stress. <i>Personality and Individual Differences</i> , 1997, 22, 677-681.	1.6	19
85	Four-year stability of cardiovascular reactivity to psychological stress. <i>Journal of Behavioral Medicine</i> , 1997, 20, 447-460.	1.1	19
86	Neuroticism but not cardiovascular stress reactivity is associated with less longitudinal blood pressure increase. <i>Personality and Individual Differences</i> , 1996, 20, 375-380.	1.6	18
87	Effects of Aversive Stimuli on Prospective Memory. An Event-Related fMRI Study. <i>PLoS ONE</i> , 2011, 6, e26290.	1.1	16
88	Operant conditioning of left-hemispheric slow cortical potentials and its effect on word processing. <i>Biological Psychology</i> , 2000, 53, 177-215.	1.1	15
89	Just add water: Effects of added gastric distention by water on gastric emptying and satiety related brain activity. <i>Appetite</i> , 2018, 127, 195-202.	1.8	14
90	Intermittent theta burst stimulation over right somatosensory larynx cortex enhances vocal pitch-regulation in nonsingers. <i>Human Brain Mapping</i> , 2019, 40, 2174-2187.	1.9	14

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91	Olive oil aroma extract modulates cerebral blood flow in gustatory brain areas in humans. American Journal of Clinical Nutrition, 2013, 98, 1360-1366.	2.2	13
92	Leptin Replacement Reestablishes Brain Insulin Action in the Hypothalamus in Congenital Leptin Deficiency. Diabetes Care, 2018, 41, 907-910.	4.3	11
93	Insula and inferior frontal triangularis activations distinguish between conditioned brain responses using emotional sounds for basic BCI communication. Frontiers in Behavioral Neuroscience, 2014, 8, 247.	1.0	10
94	Functional Connectivity Within the Gustatory Network Is Altered by Fat Content and Oral Fat Sensitivity – A Pilot Study. Frontiers in Neuroscience, 2019, 13, 725.	1.4	10
95	Sex differences in central insulin action: Effect of intranasal insulin on neural food cue reactivity in adults with normal weight and overweight. International Journal of Obesity, 2022, 46, 1662-1670.	1.6	10
96	Development of a Binary fMRI-BCI for Alzheimer Patients: A Semantic Conditioning Paradigm Using Affective Unconditioned Stimuli. , 2013, , .		8
97	Four-Year Test-Retest Reliability of Self-measured Blood Pressure. Archives of Internal Medicine, 1999, 159, 1007-1008.	4.3	8
98	Modulation of attentional networks by food-related disinhibition. Physiology and Behavior, 2017, 176, 84-92.	1.0	6
99	Resting-state functional connectivity of the human hypothalamus. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2021, 179, 113-124.	1.0	6
100	Balancing the brain of offenders with psychopathy? Resting state EEG and electrodermal activity after a pilot study of brain self-regulation training. PLoS ONE, 2021, 16, e0242830.	1.1	5
101	Self-Associations Influence Task-Performance through Bayesian Inference. Frontiers in Human Neuroscience, 2013, 7, 490.	1.0	3
102	LEARNED CONTROL OF INSULAR ACTIVITY USING fMRI BRAIN COMPUTER INTERFACE IN SCHIZOPHRENIA. Schizophrenia Research, 2008, 102, 92.	1.1	2
103	Perceptual learning of speech processed by a Cochlear Implant simulator – An fMRI investigation. International Journal of Psychophysiology, 2008, 69, 225-226.	0.5	1
104	Neurobiologie und Gewaltstraftaten. Studien Und Materialien Zum Straf- Und Massregelvollzug, 2013, , 331-350.	0.0	0