

# Annette Horstmann

## List of Publications by Year in descending order

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93  
papers

4,712  
citations

126907

33  
h-index

110387

64  
g-index

110  
all docs

110  
docs citations

110  
times ranked

7155  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Properties of Human Brain Structure: Learning-Related Changes in Cortical Areas and Associated Fiber Connections. <i>Journal of Neuroscience</i> , 2010, 30, 11670-11677.	3.6	442
2	Eigenvector Centrality Mapping for Analyzing Connectivity Patterns in fMRI Data of the Human Brain. <i>PLoS ONE</i> , 2010, 5, e10232.	2.5	406
3	Neural correlates of the volitional regulation of the desire for food. <i>International Journal of Obesity</i> , 2012, 36, 648-655.	3.4	205
4	A mind-brain-body dataset of MRI, EEG, cognition, emotion, and peripheral physiology in young and old adults. <i>Scientific Data</i> , 2019, 6, 180308.	5.3	188
5	Performance of healthy participants on the Iowa Gambling Task.. <i>Psychological Assessment</i> , 2013, 25, 180-193.	1.5	166
6	Multivariate information-theoretic measures reveal directed information structure and task relevant changes in fMRI connectivity. <i>Journal of Computational Neuroscience</i> , 2011, 30, 85-107.	1.0	165
7	Reward processing in obesity, substance addiction and non-substance addiction. <i>Obesity Reviews</i> , 2014, 15, 853-869.	6.5	146
8	Combined Evaluation of FDG-PET and MRI Improves Detection and Differentiation of Dementia. <i>PLoS ONE</i> , 2011, 6, e18111.	2.5	129
9	Obesity-Related Differences between Women and Men in Brain Structure and Goal-Directed Behavior. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 58.	2.0	127
10	Sex-Dependent Influences of Obesity on Cerebral White Matter Investigated by Diffusion-Tensor Imaging. <i>PLoS ONE</i> , 2011, 6, e18544.	2.5	121
11	Differential effects of global and cerebellar normalization on detection and differentiation of dementia in FDG-PET studies. <i>NeuroImage</i> , 2010, 49, 1490-1495.	4.2	118
12	Neural processing of negative emotional stimuli and the influence of age, sex and task-related characteristics. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 68, 773-793.	6.1	104
13	Response inhibition and its relation to multidimensional impulsivity. <i>NeuroImage</i> , 2014, 103, 241-248.	4.2	103
14	Slave to habit? Obesity is associated with decreased behavioural sensitivity to reward devaluation. <i>Appetite</i> , 2015, 87, 175-183.	3.7	99
15	Argument for a non-linear relationship between severity of human obesity and dopaminergic tone. <i>Obesity Reviews</i> , 2015, 16, 821-830.	6.5	89
16	Higher body mass index in older adults is associated with lower gray matter volume: implications for memory performance. <i>Neurobiology of Aging</i> , 2016, 40, 1-10.	3.1	84
17	Body weight status, eating behavior, sensitivity to reward/punishment, and gender: relationships and interdependencies. <i>Frontiers in Psychology</i> , 2014, 5, 1073.	2.1	81
18	Retraining automatic action tendencies in obesity. <i>Physiology and Behavior</i> , 2018, 192, 50-58.	2.1	81

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19	Functional network centrality in obesity: A resting-state and task fMRI study. <i>Psychiatry Research - Neuroimaging</i> , 2015, 233, 331-338.	1.8	75
20	Resuscitating the heart but losing the brain. <i>Neurology</i> , 2010, 74, 306-312.	1.1	74
21	Eating Behaviour in the General Population: An Analysis of the Factor Structure of the German Version of the Three-Factor-Eating-Questionnaire (TFEQ) and Its Association with the Body Mass Index. <i>PLoS ONE</i> , 2015, 10, e0133977.	2.5	69
22	Exenatide-Induced Reduction in Energy Intake Is Associated With Increase in Hypothalamic Connectivity. <i>Diabetes Care</i> , 2013, 36, 1933-1940.	8.6	68
23	Physical exercise in overweight to obese individuals induces metabolic- and neurotrophic-related structural brain plasticity. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 372.	2.0	61
24	Dissociating Memory Networks in Early Alzheimer's Disease and Frontotemporal Lobar Degeneration - A Combined Study of Hypometabolism and Atrophy. <i>PLoS ONE</i> , 2013, 8, e55251.	2.5	59
25	Lateral prefrontal model-based signatures are reduced in healthy individuals with high trait impulsivity. <i>Translational Psychiatry</i> , 2015, 5, e659-e659.	4.8	59
26	Peptide hormones regulating appetite" focus on neuroimaging studies in humans. <i>Diabetes/Metabolism Research and Reviews</i> , 2011, 27, 104-112.	4.0	56
27	Comparison of variants of canonical correlation analysis and partial least squares for combined analysis of MRI and genetic data. <i>NeuroImage</i> , 2015, 107, 289-310.	4.2	54
28	Brain regulation of food craving: relationships with weight status and eating behavior. <i>International Journal of Obesity</i> , 2016, 40, 982-989.	3.4	51
29	Gut microbiota link dietary fiber intake and short-chain fatty acid metabolism with eating behavior. <i>Translational Psychiatry</i> , 2021, 11, 500.	4.8	51
30	Target selection in eye-hand coordination: Do we reach to where we look or do we look to where we reach?. <i>Experimental Brain Research</i> , 2005, 167, 187-195.	1.5	49
31	Iowa Gambling Task: there is more to consider than long-term outcome. Using a linear equation model to disentangle the impact of outcome and frequency of gains and losses. <i>Frontiers in Neuroscience</i> , 2012, 6, 61.	2.8	49
32	Intermittent compared to continuous real-time fMRI neurofeedback boosts control over amygdala activation. <i>NeuroImage</i> , 2018, 166, 198-208.	4.2	45
33	Failing to learn from negative prediction errors: Obesity is associated with alterations in a fundamental neural learning mechanism. <i>Cortex</i> , 2017, 95, 222-237.	2.4	42
34	Common Genetic Variation near MC4R Has a Sex-Specific Impact on Human Brain Structure and Eating Behavior. <i>PLoS ONE</i> , 2013, 8, e74362.	2.5	41
35	The impulsive brain: Neural underpinnings of binge eating behavior in normal-weight adults. <i>Appetite</i> , 2019, 136, 33-49.	3.7	38
36	Functional neuroimaging in obesity and the potential for development of novel treatments. <i>Lancet Diabetes and Endocrinology</i> , 2016, 4, 695-705.	11.4	36

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37	Diagnostic imaging in obesity. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2013, 27, 261-277.	4.7	35
38	It wasn't me; it was my brain – Obesity-associated characteristics of brain circuits governing decision-making. <i>Physiology and Behavior</i> , 2017, 176, 125-133.	2.1	33
39	Role of genetic variants in ADIPOQ in human eating behavior. <i>Genes and Nutrition</i> , 2015, 10, 449.	2.5	32
40	Age- and gender-specific norms for the German version of the Three-Factor Eating-Questionnaire (TFEQ). <i>Appetite</i> , 2015, 91, 241-247.	3.7	31
41	Altered monetary loss processing and reinforcement-based learning in individuals with obesity. <i>Brain Imaging and Behavior</i> , 2018, 12, 1431-1449.	2.1	31
42	Incidental rewarding cues influence economic decisions in people with obesity. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 278.	2.0	30
43	Slips of Action and Sequential Decisions: A Cross-Validation Study of Tasks Assessing Habitual and Goal-Directed Action Control. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 234.	2.0	29
44	Increased Brain Reward Responsivity to Food-Related Odors in Obesity. <i>Obesity</i> , 2021, 29, 1138-1145.	3.0	29
45	Leptin Substitution in Patients With Lipodystrophy: Neural Correlates for Long-term Success in the Normalization of Eating Behavior. <i>Diabetes</i> , 2016, 65, 2179-2186.	0.6	28
46	Unhealthy yet Avoidable – How Cognitive Bias Modification Alters Behavioral and Brain Responses to Food Cues in Individuals with Obesity. <i>Nutrients</i> , 2019, 11, 874.	4.1	27
47	Is it Worth the Effort? Novel Insights into Obesity-Associated Alterations in Cost-Benefit Decision-Making. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 360.	2.0	26
48	Stopping at the sight of food – How gender and obesity impact on response inhibition. <i>Appetite</i> , 2016, 107, 663-676.	3.7	22
49	Insulin Resistance Is Associated with Reduced Food Odor Sensitivity across a Wide Range of Body Weights. <i>Nutrients</i> , 2020, 12, 2201.	4.1	22
50	Appetitive Pavlovian-to-Instrumental Transfer in Participants with Normal-Weight and Obesity. <i>Nutrients</i> , 2019, 11, 1037.	4.1	20
51	Preliminary evidence for an association between intake of high-fat high-sugar diet, variations in peripheral dopamine precursor availability and dopamine-dependent cognition in humans. <i>Journal of Neuroendocrinology</i> , 2020, 32, e12917.	2.6	20
52	Brain imaging in the context of food perception and eating. <i>Current Opinion in Lipidology</i> , 2013, 24, 18-24.	2.7	19
53	The role of dopamine in positive and negative prediction error utilization during incidental learning – Insights from Positron Emission Tomography, Parkinson's disease and Huntington's disease. <i>Cortex</i> , 2017, 90, 149-162.	2.4	19
54	Dorsolateral and medial prefrontal cortex mediate the influence of incidental priming on economic decision making in obesity. <i>Scientific Reports</i> , 2018, 8, 17595.	3.3	19

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55	Keeping track of promised rewards: Obesity predicts enhanced flexibility when learning from observation. <i>Appetite</i> , 2018, 131, 117-124.	3.7	19
56	Reduced Olfactory Bulb Volume in Obesity and Its Relation to Metabolic Health Status. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 586998.	2.0	19
57	General Habit Propensity Relates to the Sensation Seeking Subdomain of Impulsivity But Not Obesity. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 213.	2.0	17
58	Effects of psychological eating behaviour domains on the association between socio-economic status and BMI. <i>Public Health Nutrition</i> , 2017, 20, 2706-2712.	2.2	17
59	Automatic and Controlled Processing: Implications for Eating Behavior. <i>Nutrients</i> , 2020, 12, 1097.	4.1	17
60	Dopamine release, diffusion and uptake: A computational model for synaptic and volume transmission. <i>PLoS Computational Biology</i> , 2020, 16, e1008410.	3.2	17
61	Characterizing impulsivity and resting-state functional connectivity in normal-weight binge eaters. <i>International Journal of Eating Disorders</i> , 2020, 53, 478-488.	4.0	16
62	Psychometric Evaluation of the German Version of the Dietary Fat and Free Sugar-Short Questionnaire. <i>Obesity Facts</i> , 2019, 12, 518-528.	3.4	15
63	Loss of control over eating: A systematic review of task based research into impulsive and compulsive processes in binge eating. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 129, 330-350.	6.1	15
64	Focal Retrograde Amnesia: Voxel-Based Morphometry Findings in a Case without MRI Lesions. <i>PLoS ONE</i> , 2011, 6, e26538.	2.5	15
65	Data from 617 Healthy Participants Performing the Iowa Gambling Task: A "Many Labs" Collaboration. , 2015, 3, .		15
66	Molecular Imaging of Central Dopamine in Obesity: A Qualitative Review across Substrates and Radiotracers. <i>Brain Sciences</i> , 2022, 12, 486.	2.3	15
67	The role of rs2237781 within <i>GRM8</i> in eating behavior. <i>Brain and Behavior</i> , 2013, 3, 495-502.	2.2	14
68	Hemispheric asymmetries in resting-state EEG and fMRI are related to approach and avoidance behaviour, but not to eating behaviour or BMI. <i>Human Brain Mapping</i> , 2020, 41, 1136-1152.	3.6	14
69	The Aetiology of Olfactory Dysfunction and Its Relationship to Diet Quality. <i>Brain Sciences</i> , 2020, 10, 769.	2.3	14
70	Flexible Adaptive Paradigms for fMRI Using a Novel Software Package "Brain Analysis in Real-Time"™ (BART). <i>PLoS ONE</i> , 2015, 10, e0118890.	2.5	12
71	Identifying neural correlates of memory and language disturbances in herpes simplex encephalitis: a voxel-based morphometry (VBM) study. <i>Journal of Neurology</i> , 2015, 262, 563-569.	3.6	12
72	Distinctive striatal dopamine signaling after dieting and gastric bypass. <i>Trends in Endocrinology and Metabolism</i> , 2015, 26, 223-230.	7.1	12

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73	(Epi)genetic regulation of CRTCL in human eating behaviour and fat distribution. EBioMedicine, 2019, 44, 476-488.	6.1	12
74	Differential heart rate responses to social and monetary reinforcement in women with obesity. Psychophysiology, 2016, 53, 868-879.	2.4	11
75	Lost in Translation? On the Need for Convergence in Animal and Human Studies on the Role of Dopamine in Diet-Induced Obesity. Current Addiction Reports, 2019, 6, 229-257.	3.4	11
76	Liking and left amygdala activity during food versus nonfood processing are modulated by emotional context. Cognitive, Affective and Behavioral Neuroscience, 2020, 20, 91-102.	2.0	11
77	Brain response to food odors is not associated with body mass index and obesity-related metabolic health measures. Appetite, 2022, 168, 105774.	3.7	10
78	Feasibility and utility of amygdala neurofeedback. Neuroscience and Biobehavioral Reviews, 2022, 138, 104694.	6.1	10
79	Obesity Associated Cerebral Gray and White Matter Alterations Are Interrelated in the Female Brain. PLoS ONE, 2014, 9, e114206.	2.5	9
80	Cause or consequence? Investigating attention bias and self-regulation skills in children at risk for obesity. Journal of Experimental Child Psychology, 2017, 155, 113-127.	1.4	8
81	Genetic variants in AKR1B10 associate with human eating behavior. BMC Genetics, 2015, 16, 31.	2.7	7
82	Parasympathetic cardio-regulation during social interactions in individuals with obesityâ€”The influence of negative body image. Cognitive, Affective and Behavioral Neuroscience, 2017, 17, 330-347.	2.0	7
83	Rapid Assessment of Olfactory Sensitivity Using the â€œSniffinâ€™ Sticksâ€¸ Chemosensory Perception, 2020, 13, 37-44.	1.2	6
84	Reliance on model-based and model-free control in obesity. Scientific Reports, 2020, 10, 22433.	3.3	6
85	Random Projection for Fast and Efficient Multivariate Correlation Analysis of High-Dimensional Data: A New Approach. Frontiers in Genetics, 2016, 7, 102.	2.3	5
86	Metabolic Profile and Metabolite Analyses in Extreme Weight Responders to Gastric Bypass Surgery. Metabolites, 2022, 12, 417.	2.9	5
87	The Brainâ€™s Got a Taste for Good Food. , 2015, , 39-56.		2
88	The brainâ€™s role in human obesity. E-Neuroforum, 2013, 19, .	0.1	1
89	Adipositas, Kognition und Entscheidungsverhalten. , 2019, , 101-113.		1
90	Leptin-substitution in patients with congenital lipodystrophy increases connectivity in reward-related brain structures: an fMRI study. Experimental and Clinical Endocrinology and Diabetes, 2014, 122, .	1.2	1

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91	Die Rolle des Gehirns bei Adipositas. E-Neuroforum, 2013, 19, 138-146.	0.1	0
92	Die wissenschaftliche Evaluierung von zanadio – einem ganzheitlichen, digitalen Behandlungsprogramm für Menschen mit Adipositas. , 2021, 15, .		0
93	Die wissenschaftliche Evaluierung von zanadio – einer digitalen Gesundheitsanwendung für Menschen mit Adipositas. Diabetologie Und Stoffwechsel, 2022, , .	0.0	0