

Lorenz Deserno

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,844
citations

218677

26
h-index

189892

50
g-index

75
all docs

75
docs citations

75
times ranked

4029
citing authors

#	ARTICLE	IF	CITATIONS
1	Striatal dysfunction during reversal learning in unmedicated schizophrenia patients. <i>NeuroImage</i> , 2014, 89, 171-180.	4.2	221
2	Reduced Prefrontal-Parietal Effective Connectivity and Working Memory Deficits in Schizophrenia. <i>Journal of Neuroscience</i> , 2012, 32, 12-20.	3.6	205
3	Ventral striatal dopamine reflects behavioral and neural signatures of model-based control during sequential decision making. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1595-1600.	7.1	200
4	Urbanicity, social adversity and psychosis. <i>World Psychiatry</i> , 2013, 12, 187-197.	10.4	182
5	Model-Based and Model-Free Decisions in Alcohol Dependence. <i>Neuropsychobiology</i> , 2014, 70, 122-131.	1.9	154
6	Dissecting psychiatric spectrum disorders by generative embedding. <i>NeuroImage: Clinical</i> , 2014, 4, 98-111.	2.7	150
7	Addiction Research Consortium: Losing and regaining control over drug intake (ReCoDe) – From trajectories to mechanisms and interventions. <i>Addiction Biology</i> , 2020, 25, e12866.	2.6	135
8	Response inhibition and its relation to multidimensional impulsivity. <i>NeuroImage</i> , 2014, 103, 241-248.	4.2	103
9	Ventral striatal prediction error signaling is associated with dopamine synthesis capacity and fluid intelligence. <i>Human Brain Mapping</i> , 2013, 34, 1490-1499.	3.6	94
10	The interaction of acute and chronic stress impairs model-based behavioral control. <i>Psychoneuroendocrinology</i> , 2015, 53, 268-280.	2.7	88
11	Impaired Flexible Reward-Based Decision-Making in Binge Eating Disorder: Evidence from Computational Modeling and Functional Neuroimaging. <i>Neuropsychopharmacology</i> , 2017, 42, 628-637.	5.4	83
12	Reinforcement Learning and Dopamine in Schizophrenia: Dimensions of Symptoms or Specific Features of a Disease Group?. <i>Frontiers in Psychiatry</i> , 2013, 4, 172.	2.6	74
13	Behavioral and Neural Signatures of Reduced Updating of Alternative Options in Alcohol-Dependent Patients during Flexible Decision-Making. <i>Journal of Neuroscience</i> , 2016, 36, 10935-10948.	3.6	66
14	Devaluation and sequential decisions: linking goal-directed and model-based behavior. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 587.	2.0	59
15	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
16	Dopaminergic modulation of hemodynamic signal variability and the functional connectome during cognitive performance. <i>NeuroImage</i> , 2018, 172, 341-356.	4.2	54
17	Aberrant Salience Is Related to Dysfunctional Self-Referential Processing in Psychosis. <i>Schizophrenia Bulletin</i> , 2015, 42, sbv098.	4.3	51
18	Dissociating neural learning signals in human sign- and goal-trackers. <i>Nature Human Behaviour</i> , 2020, 4, 201-214.	12.0	51

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19	Prefrontal and Striatal Glutamate Differently Relate to Striatal Dopamine: Potential Regulatory Mechanisms of Striatal Presynaptic Dopamine Function?. <i>Journal of Neuroscience</i> , 2015, 35, 9615-9621.	3.6	50
20	Aberrant Salience Is Related to Reduced Reinforcement Learning Signals and Elevated Dopamine Synthesis Capacity in Healthy Adults. <i>Journal of Neuroscience</i> , 2015, 35, 10103-10111.	3.6	46
21	Chronic alcohol intake abolishes the relationship between dopamine synthesis capacity and learning signals in the ventral striatum. <i>European Journal of Neuroscience</i> , 2015, 41, 477-486.	2.6	45
22	Dorsolateral prefrontal cortex contributes to the impaired behavioral adaptation in alcohol dependence. <i>NeuroImage: Clinical</i> , 2017, 15, 80-94.	2.7	42
23	Striatal dopamine, reward, and decision making in schizophrenia. <i>Dialogues in Clinical Neuroscience</i> , 2016, 18, 77-89.	3.7	38
24	Reduced default mode network connectivity in schizophrenia patients. <i>Schizophrenia Research</i> , 2015, 165, 90-93.	2.0	36
25	How music alters a kiss: superior temporal gyrus controls fusiform amygdalar effective connectivity. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 1770-1778.	3.0	34
26	Volatility Estimates Increase Choice Switching and Relate to Prefrontal Activity in Schizophrenia. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 173-183.	1.5	32
27	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
28	Prefrontal-parietal effective connectivity during working memory in older adults. <i>Neurobiology of Aging</i> , 2017, 57, 18-27.	3.1	29
29	Attentional modulation of reward processing in the human brain. <i>Human Brain Mapping</i> , 2014, 35, 3036-3051.	3.6	28
30	Targeted intervention: Computational approaches to elucidate and predict relapse in alcoholism. <i>NeuroImage</i> , 2017, 151, 33-44.	4.2	28
31	Computational approaches to schizophrenia: A perspective on negative symptoms. <i>Schizophrenia Research</i> , 2017, 186, 46-54.	2.0	27
32	Risk Factors for Addiction and Their Association with Model-Based Behavioral Control. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 26.	2.0	23
33	A hierarchical model for integrating unsupervised generative embedding and empirical Bayes. <i>Journal of Neuroscience Methods</i> , 2016, 269, 6-20.	2.5	23
34	Epigenetic variance in dopamine D2 receptor: a marker of IQ malleability?. <i>Translational Psychiatry</i> , 2018, 8, 169.	4.8	23
35	Modeling subjective relevance in schizophrenia and its relation to aberrant salience. <i>PLoS Computational Biology</i> , 2018, 14, e1006319.	3.2	23
36	Corona Health™ A Study- and Sensor-Based Mobile App Platform Exploring Aspects of the COVID-19 Pandemic. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7395.	2.6	21

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37	Test of retest reliability of the novel 5-HT _{1B} receptor PET radioligand [11C]P943. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 468-477.	6.4	20
38	Frontal glutamate and reward processing in adolescence and adulthood. <i>Brain Structure and Function</i> , 2015, 220, 3087-3099.	2.3	19
39	Inhibition of Information Flow to the Default Mode Network During Self-Reference Versus Reference to Others. <i>Cerebral Cortex</i> , 2017, 27, 3930-3942.	2.9	19
40	Reversal learning strategy in adolescence is associated with prefrontal cortex activation. <i>European Journal of Neuroscience</i> , 2017, 45, 129-137.	2.6	19
41	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
42	Sufficient reliability of the behavioral and computational readouts of a probabilistic reversal learning task. <i>Behavior Research Methods</i> , 2022, 54, 2993-3014.	4.0	18
43	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
44	Model-Free Temporal-Difference Learning and Dopamine in Alcohol Dependence: Examining Concepts From Theory and Animals in Human Imaging. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2016, 1, 401-410.	1.5	12
45	The Feedback-related Negativity Codes Components of Abstract Inference during Reward-based Decision-making. <i>Journal of Cognitive Neuroscience</i> , 2016, 28, 1127-1138.	2.3	8
46	Beyond a Cognitive Dichotomy: Can Multiple Decision Systems Prove Useful to Distinguish Compulsive and Impulsive Symptom Dimensions?. <i>Biological Psychiatry</i> , 2020, 88, e49-e51.	1.3	8
47	Decline in prefrontal catecholamine synthesis explains age-related changes in cognitive speed beyond regional grey matter atrophy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2012, 39, 1462-1466.	6.4	7
48	Reduced parietofrontal effective connectivity during a working-memory task in people with high delusional ideation. <i>Journal of Psychiatry and Neuroscience</i> , 2019, 44, 195-204.	2.4	7
49	Emotional maltreatment and neglect impact neural activation upon exclusion in early and mid-adolescence: An event-related fMRI study. <i>Development and Psychopathology</i> , 2022, 34, 573-585.	2.3	7
50	Linking social context and addiction neuroscience: a computational psychiatry approach. <i>Nature Reviews Neuroscience</i> , 2017, 18, 450-450.	10.2	6
51	Reversal learning reveals cognitive deficits and altered prediction error encoding in the ventral striatum in Huntington's disease. <i>Brain Imaging and Behavior</i> , 2017, 11, 1862-1872.	2.1	6
52	Prediction Along a Developmental Perspective in Psychiatry: How Far Might We Go?. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 670404.	2.5	6
53	Reliance on model-based and model-free control in obesity. <i>Scientific Reports</i> , 2020, 10, 22433.	3.3	6
54	Dopamine enhances model-free credit assignment through boosting of retrospective model-based inference. <i>ELife</i> , 2021, 10, .	6.0	6

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55	Mobile Data Collection of Cognitive-Behavioral Tasks in Substance Use Disorders: Where Are We Now?. <i>Neuropsychobiology</i> , 2022, 81, 438-450.	1.9	5
56	Distributed networks for auditory memory differentially contribute to recall precision. <i>NeuroImage</i> , 2022, 256, 119227.	4.2	4
57	Responsivity of the Striatal Dopamine System to Methylphenidate—A Within-Subject I-123- β -CIT-SPECT Study in Male Children and Adolescents With Attention-Deficit/Hyperactivity Disorder. <i>Frontiers in Psychiatry</i> , 2022, 13, 804730.	2.6	4
58	Dopamine Enhances Model-Free Credit Assignment Through Boosting of Retrospective Model-Based Inference. <i>Biological Psychiatry</i> , 2021, 89, S94.	1.3	3
59	Anodal tDCS over the medial prefrontal cortex enhances behavioral adaptation after punishments during reversal learning through increased updating of unchosen choice options. <i>Cerebral Cortex Communications</i> , 2022, 3, tgac006.	1.6	2
60	Reward-Related Learning in Alcoholism. <i>European Psychiatry</i> , 2011, 26, 2014-2014.	0.2	0
61	Retest-Reliability of the Cognitive Flexibility Metrics of a Probabilistic Reversal Learning Task. <i>Biological Psychiatry</i> , 2021, 89, S130-S131.	1.3	0