Nico Bunzeck

List of Publications by Year
in descending order

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66 papers	3,542 citations	172457 29 h-index	149698 56 g-index
71 all docs	71 docs citations	71 times ranked	4486 citing authors

#	Article	IF	Citations
1	Absolute Coding of Stimulus Novelty in the Human Substantia Nigra/VTA. Neuron, 2006, 51, 369-379.	8.1	438
2	Anticipation of novelty recruits reward system and hippocampus while promoting recollection. NeuroImage, 2007, 38, 194-202.	4.2	217
3	The Dopaminergic Midbrain Participates in Human Episodic Memory Formation: Evidence from Genetic Imaging. Journal of Neuroscience, 2006, 26, 1407-1417.	3.6	193
4	Functional imaging of the human dopaminergic midbrain. Trends in Neurosciences, 2009, 32, 321-328.	8.6	184
5	Theta-Coupled Periodic Replay in Working Memory. Current Biology, 2010, 20, 606-612.	3.9	183
6	Reward Dependent Invigoration Relates to Theta Oscillations and Is Predicted by Dopaminergic Midbrain Integrity in Healthy Elderly. Frontiers in Aging Neuroscience, 2017, 9, 1.	3.4	180
7	NOvelty-related Motivation of Anticipation and exploration by Dopamine (NOMAD): Implications for healthy aging. Neuroscience and Biobehavioral Reviews, 2010, 34, 660-669.	6.1	173
8	Dopamine Modulates Episodic Memory Persistence in Old Age. Journal of Neuroscience, 2012, 32, 14193-14204.	3.6	162
9	Scanning silence: Mental imagery of complex sounds. NeuroImage, 2005, 26, 1119-1127.	4.2	153
10	Theta-Alpha Oscillations Bind the Hippocampus, Prefrontal Cortex, and Striatum during Recollection: Evidence from Simultaneous EEGâ€“fMRI. Journal of Neuroscience, 2016, 36, 3579-3587.	3.6	110
11	Contextual Novelty Changes Reward Representations in the Striatum. Journal of Neuroscience, 2010, 30, 1721-1726.	3.6	91
12	A common mechanism for adaptive scaling of reward and novelty. Human Brain Mapping, 2010, 31, 1380-1394.	3.6	80
13	Contextual interaction between novelty and reward processing within the mesolimbic system. Human Brain Mapping, 2012, 33, 1309-1324.	3.6	78
14	Mesolimbic Novelty Processing in Older Adults. Cerebral Cortex, 2007, 17, 2940-2948.	2.9	67
15	Deficient inhibitory processing in trait anxiety: Evidence from context-dependent fear learning, extinction recall and renewal. Biological Psychology, 2015, 111, 65-72.	2.2	55
16	Iron Level and Myelin Content in the Ventral Striatum Predict Memory Performance in the Aging Brain. Journal of Neuroscience, 2016, 36, 3552-3558.	3.6	55
17	Pharmacological Dissociation of Novelty Responses in the Human Brain. Cerebral Cortex, 2014, 24, 1351-1360.	2.9	54
18	Contextual Novelty Modulates the Neural Dynamics of Reward Anticipation. Journal of Neuroscience, 2011, 31, 12816-12822.	3.6	53

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19	Reward Motivation Accelerates the Onset of Neural Novelty Signals in Humans to 85 Milliseconds. Current Biology, 2009, 19, 1294-1300.	3.9	52
20	Motor phenotype and magnetic resonance measures of basal ganglia iron levels in Parkinson's disease. Parkinsonism and Related Disorders, 2013, 19, 1136-1142.	2.2	48
21	Nucleus Accumbens Activity Dissociates Different Forms of Salience: Evidence from Human Intracranial Recordings. Journal of Neuroscience, 2013, 33, 8764-8771.	3.6	47
22	Altered activation and connectivity in a hippocampalâ€“basal gangliaâ€“midbrain circuit during salience processing in subjects at ultra high risk for psychosis. Translational Psychiatry, 2017, 7, e1245-e1245.	4.8	47
23	Sex differences in conditioned stimulus discrimination during context-dependent fear learning and its retrieval in humans: the role of biological sex, contraceptives and menstrual cycle phases. Journal of Psychiatry and Neuroscience, 2015, 40, 368-375.	2.4	47
24	Sex differences in conditioned stimulus discrimination during context-dependent fear learning and its retrieval in humans: the role of biological sex, contraceptives and menstrual cycle phases. Journal of Psychiatry and Neuroscience, 2015, 40, 368-375.	2.4	46
25	White Noise Improves Learning by Modulating Activity in Dopaminergic Midbrain Regions and Right Superior Temporal Sulcus. Journal of Cognitive Neuroscience, 2014, 26, 1469-1480.	2.3	44
26	Dopaminergic stimulation facilitates working memory and differentially affects prefrontal low theta oscillations. NeuroImage, 2014, 94, 185-192.	4.2	40
27	Category-specific organization of prefrontal response-facilitation during priming. Neuropsychologia, 2006, 44, 1765-1776.	1.6	39
28	Semantic Congruence Accelerates the Onset of the Neural Signals of Successful Memory Encoding. Journal of Neuroscience, 2017, 37, 291-301.	3.6	36
29	Basal forebrain integrity and cognitive memory profile in healthy aging. Brain Research, 2010, 1308, 124-136.	2.2	31
30	Substantia Nigra Activity Level Predicts Trial-to-Trial Adjustments in Cognitive Control. Journal of Cognitive Neuroscience, 2011, 23, 362-373.	2.3	31
31	Dopamine modulates processing speed in the human mesolimbic system. NeuroImage, 2013, 66, 293-300.	4.2	31
32	Differential effects of white noise in cognitive and perceptual tasks. Frontiers in Psychology, 2015, 6, 1639.	2.1	29
33	Dopamine is a double-edged sword: dopaminergic modulation enhances memory retrieval performance but impairs metacognition. Neuropsychopharmacology, 2019, 44, 555-563.	5.4	29
34	A close relationship between verbal memory and SN/VTA integrity in young and older adults. Neuropsychologia, 2008, 46, 3042-3052.	1.6	28
35	Altered salience processing in attention deficit hyperactivity disorder. Human Brain Mapping, 2015, 36, 2049-2060.	3.6	28
36	Pain anticipation recruits the mesolimbic system and differentially modulates subsequent recognition memory. Human Brain Mapping, 2014, 35, 4594-4606.	3.6	27

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37	Dopamine Controls the Neural Dynamics of Memory Signals and Retrieval Accuracy. Neuropsychopharmacology, 2013, 38, 2409-2417.	5.4	26
38	Acetylcholine modulates human working memory and subsequent familiarity based recognition via alpha oscillations. NeuroImage, 2016, 137, 61-69.	4.2	26
39	Neurochemical modulation of repetition suppression and novelty signals in the human brain. Cortex, 2016, 80, 161-173.	2.4	25
40	Brain responses to different types of salience in antipsychotic naÃ¨ve first episode psychosis: An fMRI study. Translational Psychiatry, 2018, 8, 196.	4.8	24
41	Goal- and retrieval-dependent activity in the striatum during memory recognition. Neuropsychologia, 2015, 72, 1-11.	1.6	19
42	Retrieval Demands Adaptively Change Striatal Old/New Signals and Boost Subsequent Long-Term Memory. Journal of Neuroscience, 2018, 38, 745-754.	3.6	17
43	Working memory performance in the elderly relates to theta-alpha oscillations and is predicted by parahippocampal and striatal integrity. Scientific Reports, 2019, 9, 706.	3.3	17
44	Dopamine Enhances Item Novelty Detection via Hippocampal and Associative Recall via Left Lateral Prefrontal Cortex Mechanisms. Journal of Neuroscience, 2019, 39, 7920-7933.	3.6	17
45	The gains of a 4â€week cognitive training are not modulated by novelty. Human Brain Mapping, 2020, 41, 2596-2610.	3.6	17
46	Retrieval Practice Improves Recollection-Based Memory Over a Seven-Day Period in Younger and Older Adults. Frontiers in Psychology, 2019, 10, 2997.	2.1	15
47	Reward modulates the neural dynamics of early visual category processing. NeuroImage, 2012, 63, 1614-1622.	4.2	14
48	Novelty Before or After Word Learning Does Not Affect Subsequent Memory Performance. Frontiers in Psychology, 2019, 10, 1379.	2.1	13
49	Neural Habituation to Painful Stimuli Is Modulated by Dopamine: Evidence from a Pharmacological fMRI Study. Frontiers in Human Neuroscience, 2017, 11, 630.	2.0	12
50	Age-Related Decreases in the Retrieval Practice Effect Directly Relate to Changes in Alpha-Beta Oscillations. Journal of Neuroscience, 2019, 39, 4344-4352.	3.6	12
51	Theta oscillations underlie retrieval success effects in the nucleus accumbens and anterior thalamus: Evidence from human intracranial recordings. Neurobiology of Learning and Memory, 2018, 155, 104-112.	1.9	10
52	Neural oscillations and event-related potentials reveal how semantic congruence drives long-term memory in both young and older humans. Scientific Reports, 2020, 10, 9116.	3.3	10
53	Age-related iron accumulation and demyelination in the basal ganglia are closely related to verbal memory and executive functioning. Scientific Reports, 2021, 11, 9438.	3.3	10
54	Functional coupling between CA3 and laterobasal amygdala supports schema dependent memory formation. NeuroImage, 2021, 244, 118563.	4.2	9

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55	Early Effects of Reward Anticipation Are Modulated by Dopaminergic Stimulation. PLoS ONE, 2014, 9, e108886.	2.5	8
56	Altered subcortical emotional salience processing differentiates Parkinsonâ€™s patients with and without psychotic symptoms. NeuroImage: Clinical, 2020, 27, 102277.	2.7	8
57	Where There is Smoke There is Fearâ€”Impaired Contextual Inhibition of Conditioned Fear in Smokers. Neuropsychopharmacology, 2017, 42, 1640-1646.	5.4	7
58	Novelty processing associated with neural beta oscillations improves recognition memory in young and older adults. Annals of the New York Academy of Sciences, 2022, , .	3.8	4
59	Semantic Congruence Accelerates the Onset of the Neural Signals of Successful Memory Encoding. Journal of Neuroscience, 2017, 37, 291-301.	3.6	3
60	Dopamine Related Genes Differentially Affect Declarative Long-Term Memory in Healthy Humans. Frontiers in Behavioral Neuroscience, 2020, 14, 539725.	2.0	3
61	Anticipating social incentives recruits alpha-beta oscillations in the human substantia nigra and invigorates behavior across the life span. NeuroImage, 2021, 245, 118696.	4.2	3
62	Anticipation of electric shocks modulates low beta power and event-related fields during memory encoding. Neurobiology of Learning and Memory, 2015, 123, 196-204.	1.9	1
63	Increasing Dopamine and Acetylcholine Levels during Encoding Does Not Modulate Remember or Know Responses during Memory Retrieval in Healthy Agingâ€”a Randomized Controlled Feasibility Study. Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice, 2019, 3, 328-337.	1.6	1
64	Semantic Congruence Drives Long-Term Memory and Similarly Affects Neural Retrieval Dynamics in Young and Older Adults. Frontiers in Aging Neuroscience, 2021, 13, 683908.	3.4	1
65	Benefit from retrieval practice is linked to temporal and frontal activity in healthy young and older humans. Cerebral Cortex Communications, 2022, 3, tgac009.	1.6	1
66	Set Size of Information in Long-Term Memory Similarly Modulates Retrieval Dynamics in Young and Older Adults. Frontiers in Psychology, 2022, 13, 817929.	2.1	0