

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11200780/publications.pdf>

Version: 2024-02-01

64  
papers

3,504  
citations

182225

30  
h-index

190340

53  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1490  
citing authors

#	ARTICLE	IF	CITATIONS
1	The graphical brain: Belief propagation and active inference. <i>Network Neuroscience</i> , 2017, 1, 381-414.	1.4	260
2	The Markov blankets of life: autonomy, active inference and the free energy principle. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170792.	1.5	241
3	Deep temporal models and active inference. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 77, 388-402.	2.9	159
4	Uncertainty, epistemics and active inference. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170376.	1.5	150
5	Working memory, attention, and salience in active inference. <i>Scientific Reports</i> , 2017, 7, 14678.	1.6	148
6	The Anatomy of Inference: Generative Models and Brain Structure. <i>Frontiers in Computational Neuroscience</i> , 2018, 12, 90.	1.2	126
7	Active inference on discrete state-spaces: A synthesis. <i>Journal of Mathematical Psychology</i> , 2020, 99, 102447.	1.0	119
8	Generalised free energy and active inference. <i>Biological Cybernetics</i> , 2019, 113, 495-513.	0.6	105
9	Computational Neuropsychology and Bayesian Inference. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 61.	1.0	104
10	Deeply Felt Affect: The Emergence of Valence in Deep Active Inference. <i>Neural Computation</i> , 2021, 33, 398-446.	1.3	94
11	Attention or salience?. <i>Current Opinion in Psychology</i> , 2019, 29, 1-5.	2.5	93
12	Neuronal message passing using Mean-field, Bethe, and Marginal approximations. <i>Scientific Reports</i> , 2019, 9, 1889.	1.6	88
13	Markov blankets, information geometry and stochastic thermodynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190159.	1.6	84
14	Active Inference: Demystified and Compared. <i>Neural Computation</i> , 2021, 33, 674-712.	1.3	77
15	The active construction of the visual world. <i>Neuropsychologia</i> , 2017, 104, 92-101.	0.7	75
16	Simulating Emotions: An Active Inference Model of Emotional State Inference and Emotion Concept Learning. <i>Frontiers in Psychology</i> , 2019, 10, 2844.	1.1	73
17	Free-energy minimization in joint agent-environment systems: A niche construction perspective. <i>Journal of Theoretical Biology</i> , 2018, 455, 161-178.	0.8	71
18	Sophisticated Inference. <i>Neural Computation</i> , 2021, 33, 713-763.	1.3	65

#	ARTICLE	IF	CITATIONS
19	On Markov blankets and hierarchical self-organisation. <i>Journal of Theoretical Biology</i> , 2020, 486, 110089.	0.8	63
20	Neurocomputational mechanisms underlying emotional awareness: Insights afforded by deep active inference and their potential clinical relevance. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 107, 473-491.	2.9	60
21	Perceptual awareness and active inference. <i>Neuroscience of Consciousness</i> , 2019, 2019, niz012.	1.4	55
22	Generative models, linguistic communication and active inference. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 118, 42-64.	2.9	55
23	Precision and False Perceptual Inference. <i>Frontiers in Integrative Neuroscience</i> , 2018, 12, 39.	1.0	50
24	Parcels and particles: Markov blankets in the brain. <i>Network Neuroscience</i> , 2021, 5, 211-251.	1.4	48
25	An Active Inference Approach to Modeling Structure Learning: Concept Learning as an Example Case. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 41.	1.2	46
26	Active Inference and Auditory Hallucinations. <i>Computational Psychiatry</i> , 2020, 2, 183.	1.1	45
27	The Discrete and Continuous Brain: From Decisions to Movement—And Back Again. <i>Neural Computation</i> , 2018, 30, 2319-2347.	1.3	43
28	Introducing a Bayesian model of selective attention based on active inference. <i>Scientific Reports</i> , 2019, 9, 13915.	1.6	43
29	The Computational Anatomy of Visual Neglect. <i>Cerebral Cortex</i> , 2018, 28, 777-790.	1.6	41
30	Prefrontal Computation as Active Inference. <i>Cerebral Cortex</i> , 2020, 30, 682-695.	1.6	38
31	Active listening. <i>Hearing Research</i> , 2021, 399, 107998.	0.9	37
32	Everything is connected: Inference and attractors in delusions. <i>Schizophrenia Research</i> , 2022, 245, 5-22.	1.1	36
33	The emergence of synchrony in networks of mutually inferring neurons. <i>Scientific Reports</i> , 2019, 9, 6412.	1.6	35
34	Modules or Mean-Fields?. <i>Entropy</i> , 2020, 22, 552.	1.1	34
35	Active inference, stressors, and psychological trauma: A neuroethological model of (mal)adaptive explore-exploit dynamics in ecological context. <i>Behavioural Brain Research</i> , 2020, 380, 112421.	1.2	33
36	Active inference and the anatomy of oculomotion. <i>Neuropsychologia</i> , 2018, 111, 334-343.	0.7	32

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37	Degeneracy and Redundancy in Active Inference. <i>Cerebral Cortex</i> , 2020, 30, 5750-5766.	1.6	31
38	An Investigation of the Free Energy Principle for Emotion Recognition. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 30.	1.2	30
39	Markov blankets in the brain. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 125, 88-97.	2.9	29
40	With an eye on uncertainty: Modelling pupillary responses to environmental volatility. <i>PLoS Computational Biology</i> , 2019, 15, e1007126.	1.5	27
41	The computational neurology of movement under active inference. <i>Brain</i> , 2021, 144, 1799-1818.	3.7	27
42	Bayesian Filtering with Multiple Internal Models: Toward a Theory of Social Intelligence. <i>Neural Computation</i> , 2019, 31, 2390-2431.	1.3	25
43	Some Interesting Observations on the Free Energy Principle. <i>Entropy</i> , 2021, 23, 1076.	1.1	24
44	The evolution of brain architectures for predictive coding and active inference. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20200531.	1.8	23
45	Neural Dynamics under Active Inference: Plausibility and Efficiency of Information Processing. <i>Entropy</i> , 2021, 23, 454.	1.1	22
46	Generative Models for Active Vision. <i>Frontiers in Neurorobotics</i> , 2021, 15, 651432.	1.6	17
47	Dynamic Causal Modelling of Active Vision. <i>Journal of Neuroscience</i> , 2019, 39, 6265-6275.	1.7	15
48	Immunoceptive inference: why are psychiatric disorders and immune responses intertwined?. <i>Biology and Philosophy</i> , 2021, 36, 27.	0.7	15
49	The computational pharmacology of oculomotion. <i>Psychopharmacology</i> , 2019, 236, 2473-2484.	1.5	12
50	Memory and Markov Blankets. <i>Entropy</i> , 2021, 23, 1105.	1.1	12
51	Deep Active Inference and Scene Construction. <i>Frontiers in Artificial Intelligence</i> , 2020, 3, 509354.	2.0	12
52	Impulsivity and Active Inference. <i>Journal of Cognitive Neuroscience</i> , 2019, 31, 202-220.	1.1	11
53	Paradoxical lesions, plasticity and active inference. <i>Brain Communications</i> , 2020, 2, fcaa164.	1.5	11
54	Understanding, Explanation, and Active Inference. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 772641.	1.2	10

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55	A Bayesian Account of Psychopathy: A Model of Lacks Remorse and Self-Aggrandizing. Computational Psychiatry, 2020, 2, 92.	1.1	9
56	The Predictive Brain Must Have a Limitation in Short-Term Memory Capacity. Current Directions in Psychological Science, 0, , 096372142110299.	2.8	9
57	Active Inference, Novelty and Neglect. Current Topics in Behavioral Neurosciences, 2018, 41, 115-128.	0.8	7
58	Active inference, selective attention, and the cocktail party problem. Neuroscience and Biobehavioral Reviews, 2021, 131, 1288-1304.	2.9	6
59	A Bayesian Account of Generalist and Specialist Formation Under the Active Inference Framework. Frontiers in Artificial Intelligence, 2020, 3, 69.	2.0	5
60	Inferring What to Do (And What Not to). Entropy, 2020, 22, 536.	1.1	5
61	Contextual perception under active inference. Scientific Reports, 2021, 11, 16223.	1.6	5
62	Choosing a Markov blanket. Behavioral and Brain Sciences, 2020, 43, e112.	0.4	5
63	Passive motion and active inference. Physics of Life Reviews, 2019, 30, 112-115.	1.5	4
64	Active Inference, Bayesian Optimal Design, and Expected Utility. , 2022, , 124-146.		2