Ivilin Peev Stoianov

List of Publications by Year
in descending order

26 papers	1,018 citations	566801 15 h-index	552369 26 g-index
30 all docs	30 docs citations	30 times ranked	1051 citing authors

#	Article	IF	Citations
1	Emergence of a 'visual number sense' in hierarchical generative models. Nature Neuroscience, 2012, 15, 194-196.	7.1	268
2	Functional organization of the insula and inner perisylvian regions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10077-10082.	3.3	118
3	Number skills are maintained in healthy ageing. Cognitive Psychology, 2014, 69, 25-45.	0.9	94
4	Visuospatial priming of the mental number line. Cognition, 2008, 106, 770-779.	1.1	90
5	Modeling language and cognition with deep unsupervised learning: a tutorial overview. Frontiers in Psychology, 2013, 4, 515.	1.1	56
6	Prefrontal Goal Codes Emerge as Latent States in Probabilistic Value Learning. Journal of Cognitive Neuroscience, 2016, 28, 140-157.	1.1	47
7	Letter perception emerges from unsupervised deep learning and recycling of natural image features. Nature Human Behaviour, 2017, 1, 657-664.	6.2	42
8	Interactions between perceptual and numerical space. Psychonomic Bulletin and Review, 2011, 18, 722-728.	1.4	33
9	Model-Based Approaches to Active Perception and Control. Entropy, 2017, 19, 266.	1.1	31
10	Planning at decision time and in the background during spatial navigation. Current Opinion in Behavioral Sciences, 2019, 29, 69-76.	2.0	29
11	When Action Meets Emotions: How Facial Displays of Emotion Influence Goal-Related Behavior. PLoS ONE, 2010, 5, e13126.	1.1	29
12	Deep Unsupervised Learning on a Desktop PC: A Primer for Cognitive Scientists. Frontiers in Psychology, 2013, 4, 251.	1.1	28
13	Model-based spatial navigation in the hippocampus-ventral striatum circuit: A computational analysis. PLoS Computational Biology, 2018, 14, e1006316.	1.5	26
14	Neuroplus biofeedback improves attention, resilience, and injury prevention in elite soccer players. Psychophysiology, 2017, 54, 916-926.	1.2	20
15	The Role of Semantic and Symbolic Representations in Arithmetic Processing: Insights from Simulated Dyscalculia in a Connectionist Model. Cortex, 2004, 40, 194-196.	1.1	15
16	Learning Orthographic Structure With Sequential Generative Neural Networks. Cognitive Science, 2016, 40, 579-606.	0.8	14
17	Through Neural Stimulation to Behavior Manipulation: A Novel Method for Analyzing Dynamical Cognitive Models. Cognitive Science, 2010, 34, 406-433.	0.8	13
18	Steady state visual evoked potentials in reading aloud: Effects of lexicality, frequency and orthographic familiarity. Brain and Language, 2019, 192, 1-14.	0.8	11

#	Article	IF	Citations
19	The role of phonology in the inflection of Italian verbs. Mental Lexicon, 2006, 1, 147-181.	0.2	8
20	Perinatal Asphyxia Affects Rat Auditory Processing: Implications for Auditory Perceptual Impairments in Neurodevelopmental Disorders. PLoS ONE, 2010, 5, e15326.	1.1	8
21	Generative processing underlies the mutual enhancement of arithmetic fluency and math-grounding number sense. Frontiers in Psychology, 2014, 5, 1326.	1.1	7
22	Computational foundations of the visual number sense. Behavioral and Brain Sciences, 2017, 40, e191.	0.4	7
23	Associative Arithmetic with Boltzmann Machines: The Role of Number Representations. Lecture Notes in Computer Science, 2002, , 277-283.	1.0	7
24	Design of a Multifunctional Operating Station Based on Augmented Reality (MOSAR). Cybernetics and Information Technologies, 2021, 21, 119-136.	0.4	3
25	The dynamics of reading complex words: evidence from steady-state visual evoked potentials. Scientific Reports, 2021, 11, 15919.	1.6	1
26	Searching for Emergent Representations in Evolved Dynamical Systems. Lecture Notes in Computer Science, 2006, , 522-533.	1.0	0