

Steven Phillips

List of Publications by Year in descending order

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47
papers

1,699
citations

567281

15
h-index

302126

39
g-index

49
all docs

49
docs citations

49
times ranked

1249
citing authors

#	ARTICLE	IF	CITATIONS
1	Processing capacity defined by relational complexity: Implications for comparative, developmental, and cognitive psychology. Behavioral and Brain Sciences, 1998, 21, 803-831.	0.7	765
2	Relational knowledge: the foundation of higher cognition. Trends in Cognitive Sciences, 2010, 14, 497-505.	7.8	269
3	Neural correlates of the "Aha! reaction". NeuroReport, 2004, 15, 2013-2017.	1.2	97
4	Greater frontal-parietal synchrony at low gamma-band frequencies for inefficient than efficient visual search in human EEG. International Journal of Psychophysiology, 2009, 73, 350-354.	1.0	71
5	Relational complexity metric is effective when assessments are based on actual cognitive processes. Behavioral and Brain Sciences, 1998, 21, 848-860.	0.7	67
6	Categorial Compositionality: A Category Theory Explanation for the Systematicity of Human Cognition. PLoS Computational Biology, 2010, 6, e1000858.	3.2	62
7	What Do Transitive Inference and Class Inclusion Have in Common? Categorial (Co)Products and Cognitive Development. PLoS Computational Biology, 2009, 5, e1000599.	3.2	36
8	The Role of Working Memory in the Subsymbolic-Symbolic Transition. Current Directions in Psychological Science, 2013, 22, 210-216.	5.3	29
9	Categorizing Cognition. , 2014, , .		25
10	Hierarchical control of false discovery rate for phase locking measures of EEG synchrony. NeuroImage, 2010, 50, 40-47.	4.2	20
11	Visual Feature Integration Indicated by Phase-Locked Frontal-Parietal EEG Signals. PLoS ONE, 2012, 7, e32502.	2.5	20
12	Frontal-parietal synchrony in elderly EEG for visual search. International Journal of Psychophysiology, 2010, 75, 39-43.	1.0	19
13	Categorial Compositionality II: Universal Constructions and a General Theory of (Quasi-)Systematicity in Human Cognition. PLoS Computational Biology, 2011, 7, e1002102.	3.2	19
14	Computational models of relational processes in cognitive development. Cognitive Development, 2012, 27, 481-499.	1.3	19
15	Are Feedforward and Recurrent Networks Systematic? Analysis and Implications for a Connectionist Cognitive Architecture. Connection Science, 1998, 10, 137-160.	3.0	17
16	Separating Relational from Item Load Effects in Paired Recognition: Temporoparietal and Middle Frontal Gyral Activity with Increased Associates, but Not Items during Encoding and Retention. NeuroImage, 2002, 17, 1031-1055.	4.2	16
17	Systematicity and a Categorial Theory of Cognitive Architecture: Universal Construction in Context. Frontiers in Psychology, 2016, 7, 1139.	2.1	14
18	Categorial Compositionality III: F-(co)algebras and the Systematicity of Recursive Capacities in Human Cognition. PLoS ONE, 2012, 7, e35028.	2.5	13

#	ARTICLE	IF	CITATIONS
19	Constituent similarity and systematicity: The limits of first-order connectionism. <i>Connection Science</i> , 2000, 12, 45-63.	3.0	9
20	An inter-item similarity model unifying feature and conjunction search. <i>Vision Research</i> , 2006, 46, 3867-3880.	1.4	9
21	Optimal detection of functional connectivity from high-dimensional EEG synchrony data. <i>NeuroImage</i> , 2011, 58, 148-156.	4.2	9
22	Processing capacity limits are not explained by storage limits. <i>Behavioral and Brain Sciences</i> , 2001, 24, 123-124.	0.7	8
23	A conjunctive feature similarity effect for visual search. <i>Quarterly Journal of Experimental Psychology</i> , 2007, 60, 186-190.	1.1	8
24	Sheaving a universal construction for semantic compositionality. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190303.	4.0	8
25	Analogy, Cognitive Architecture and Universal Construction: A Tale of Two Systematicities. <i>PLoS ONE</i> , 2014, 9, e89152.	2.5	8
26	Second-Order Systematicity of Associative Learning: A Paradox for Classical Compositionality and a Coalgebraic Resolution. <i>PLoS ONE</i> , 2016, 11, e0160619.	2.5	7
27	Systematic Minds, Unsystematic Models: Learning Transfer in Humans and Networks. <i>Minds and Machines</i> , 1999, 9, 383-398.	4.8	6
28	A Category Theory Explanation for Systematicity. , 2014, , 227-250.		6
29	The missing link: Dynamic, modifiable representations in working memory. <i>Behavioral and Brain Sciences</i> , 2008, 31, 137-138.	0.7	5
30	Why Are There Failures of Systematicity? The Empirical Costs and Benefits of Inducing Universal Constructions. <i>Frontiers in Psychology</i> , 2016, 7, 1310.	2.1	5
31	Going Beyond the Data as the Patching (Sheaving) of Local Knowledge. <i>Frontiers in Psychology</i> , 2018, 9, 1926.	2.1	5
32	Enriched category as a model of qualia structure based on similarity judgements. <i>Consciousness and Cognition</i> , 2022, 101, 103319.	1.5	5
33	Increased bilateral occipitoparietal activity during retention of binary versus unary indexed lists in pair recognition. <i>NeuroImage</i> , 2003, 20, 1226-1235.	4.2	4
34	A General (Category Theory) Principle for General Intelligence: Duality (Adjointness). <i>Lecture Notes in Computer Science</i> , 2017, , 57-66.	1.3	4
35	Kenneth Aizawa, The Systematicity Arguments, <i>Studies in Brain and Mind</i> . <i>Minds and Machines</i> , 2007, 17, 357-360.	4.8	3
36	Dual-Routes and the Cost of Determining Least-Costs. <i>Frontiers in Psychology</i> , 2017, 8, 1943.	2.1	3

#	ARTICLE	IF	CITATIONS
37	Statistical Detection of EEG Synchrony Using Empirical Bayesian Inference. PLoS ONE, 2015, 10, e0121795.	2.5	2
38	A reconstruction theory of relational schema induction. PLoS Computational Biology, 2021, 17, e1008641.	3.2	2
39	Mathematical fixation: Search viewed through a cognitive lens. Behavioral and Brain Sciences, 2017, 40, e152.	0.7	2
40	Sensitivity to effective relational complexity in the occipitoparietal lobe. NeuroImage, 2006, 30, 1347-1356.	4.2	1
41	Separating relational from item load effects in paired recognition: temporoparietal and middle frontal gyral activity with increased associates, but not items during encoding and retention. NeuroImage, 2002, 17, 1031-55.	4.2	1
42	Neo-associativism: Limited learning transfer without binding symbol representations. Behavioral and Brain Sciences, 2002, 25, 350-351.	0.7	0
43	Does Classicism Explain Universality?. Minds and Machines, 2002, 12, 423-434.	4.8	0
44	Abstract analogies not primed by relations learned as object transformations. Behavioral and Brain Sciences, 2008, 31, 393-394.	0.7	0
45	Optimal discoveries procedure for simultaneous testing of phase locking values in a visual EEG study. Neuroscience Research, 2010, 68, e434.	1.9	0
46	Commentary: Experimental evidence for compositional syntax in bird calls. Frontiers in Psychology, 2016, 7, 1171.	2.1	0
47	Systematicity, Accessibility, and Universal Properties. Lecture Notes in Computer Science, 2012, , 555-566.	1.3	0