Stephen M Kosslyn

List of Publications by Year
in descending order

163 papers	25,060 citations	10389 72 h-index	7950 149 g-index
169 all docs	169 docs citations	169 times ranked	11677 citing authors

#	Article	IF	Citations
1	Does a presentationâ€™s medium affect its message? PowerPoint, Prezi, and oral presentations. PLoS ONE, 2017, 12, e0178774.	2.5	35
2	The heterogeneity of mental representation: Ending the imagery debate. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10089-10092.	7.1	161
3	Mental Imagery: Functional Mechanisms and Clinical Applications. Trends in Cognitive Sciences, 2015, 19, 590-602.	7.8	631
4	Cognitive Style as Environmentally Sensitive Individual Differences in Cognition. Psychological Science in the Public Interest: A Journal of the American Psychological Society, 2014, 15, 3-33.	10.7	131
5	Sparing of spatial mental imagery in patients with hippocampal lesions. Learning and Memory, 2013, 20, 657-663.	1.3	14
6	Fear and anxiety modulate mental rotation. Journal of Cognitive Psychology, 2012, 24, 665-671.	0.9	7
7	Visual memory and visual mental imagery recruit common control and sensory regions of the brain. Cognitive Neuroscience, 2012, 3, 14-20.	1.4	99
8	Assessing habitual use of dorsal versus ventral brain processes: The dorsalâ€“ventral questionnaire. Biologically Inspired Cognitive Architectures, 2012, 2, 68-76.	0.9	1
9	PowerPointÂ® Presentation Flaws and Failures: A Psychological Analysis. Frontiers in Psychology, 2012, 3, 230.	2.1	38
10	Representations in mental imagery and working memory: Evidence from different types of visual masks. Memory and Cognition, 2012, 40, 204-217.	1.6	42
11	Dissociation between visual attention and visual mental imagery. Journal of Cognitive Psychology, 2011, 23, 256-263.	0.9	11
12	Integrating visual mental images and visual percepts: new evidence for depictive representations. Psychological Research, 2011, 75, 259-271.	1.7	48
13	Mental rotation is not easily cognitively penetrable. Journal of Cognitive Psychology, 2011, 23, 60-75.	0.9	29
14	Understanding the dorsal and ventral systems of the human cerebral cortex: Beyond dichotomies.. American Psychologist, 2011, 66, 624-632.	4.2	26
15	Multimodal images in the brain. , 2010, , 3-16.		13
16	Varying the scope of attention alters the encoding of categorical and coordinate spatial relations. Neuropsychologia, 2010, 48, 2769-2772.	1.6	18
17	Individual Differences in Spatial Mental Imagery. Quarterly Journal of Experimental Psychology, 2010, 63, 2031-2050.	1.1	37
18	Fear selectively modulates visual mental imagery and visual perception. Quarterly Journal of Experimental Psychology, 2010, 63, 833-839.	1.1	19

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19	Imagining predictions: mental imagery as mental emulation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1273-1280.	4.0	320
20	Neural processes underlying self- and other-related lies: An individual difference approach using fMRI. Social Neuroscience, 2009, 4, 539-553.	1.3	42
21	Two Forms of Spatial Imagery. Psychological Science, 2009, 20, 1245-1253.	3.3	48
22	Visual mental imagery and visual perception: Structural equivalence revealed by scanning processes. Memory and Cognition, 2008, 36, 849-862.	1.6	121
23	Inspecting visual mental images: Can people â€œseeâ€•implicit properties as easily in imagery and perception?. Memory and Cognition, 2008, 36, 1024-1032.	1.6	23
24	Training generalized spatial skills. Psychonomic Bulletin and Review, 2008, 15, 763-771.	2.8	179
25	Performance on Middle School Geometry Problems With Geometry Clues Matched to Three Different Cognitive Styles. Mind, Brain, and Education, 2008, 2, 188-197.	1.9	22
26	CRIME ALERT!. Du Bois Review, 2008, 5, 217.	0.6	11
27	Bringing in the Experts. Small Group Research, 2008, 39, 352-371.	2.7	115
28	Neuroimaging evidence for object model verification theory: Role of prefrontal control in visual object categorization. NeuroImage, 2007, 34, 384-398.	4.2	48
29	Using brain-based measures to compose teams: How individual capabilities and team collaboration strategies jointly shape performance. Social Neuroscience, 2007, 2, 96-105.	1.3	47
30	Spatial Processing during Mental Imagery: A Neurofunctional Theory. , 2007, , 1-15.		7
31	Multiple Mechanisms of Top-Down Processing in Vision. , 2007, , 21-45.		6
32	Altering expectancy dampens neural response to aversive taste in primary taste cortex. Nature Neuroscience, 2006, 9, 435-442.	14.8	182
33	Different cognitive processes in two image-scanning paradigms. Memory and Cognition, 2006, 34, 475-490.	1.6	17
34	Visual mental imagery during caloric vestibular stimulation. Neuropsychologia, 2006, 44, 101-109.	1.6	55
35	You can play 20 questions with nature and win: Categorical versus coordinate spatial relations as a case study. Neuropsychologia, 2006, 44, 1519-1523.	1.6	49
36	Effects of depression on sensory/motor vs. central processing in visual mental imagery. Cognition and Emotion, 2006, 20, 737-758.	2.0	21

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37	Representational Correspondence as a Basic Principle of Diagram Design. Lecture Notes in Computer Science, 2005, , 36-57.	1.3	18
38	Reflective thinking and mental imagery: A perspective on the development of posttraumatic stress disorder. Development and Psychopathology, 2005, 17, 851-63.	2.3	27
39	Two types of image generation: Evidence from PET. Cognitive, Affective and Behavioral Neuroscience, 2005, 5, 41-53.	2.0	36
40	Understanding the effects of task-specific practice in the brain: Insights from individual-differences analyses. Cognitive, Affective and Behavioral Neuroscience, 2005, 5, 235-245.	2.0	42
41	Imagined rotations of self versus objects: an fMRI study. Neuropsychologia, 2005, 43, 1351-1361.	1.6	129
42	Visual Mental Imagery Induces Retinotopically Organized Activation of Early Visual Areas. Cerebral Cortex, 2005, 15, 1570-1583.	2.9	344
43	Mental images and the Brain. Cognitive Neuropsychology, 2005, 22, 333-347.	1.1	286
44	The relationship of male testosterone to components of mental rotation. Neuropsychologia, 2004, 42, 782-790.	1.6	129
45	Brain areas underlying visual mental imagery and visual perception: an fMRI study. Cognitive Brain Research, 2004, 20, 226-241.	3.0	624
46	Retinotopic organization of visual mental images as revealed by functional magnetic resonance imaging. Cognitive Brain Research, 2004, 22, 26-31.	3.0	158
47	Placebo-Induced Changes in fMRI in the Anticipation and Experience of Pain. Science, 2004, 303, 1162-1167.	12.6	1,731
48	Does mental simulation of following a path improve navigation performance without vision?. Cognitive Brain Research, 2003, 16, 238-249.	3.0	24
49	Four types of visual mental imagery processing in upright and tilted observers. Cognitive Brain Research, 2003, 17, 238-247.	3.0	39
50	Intuitions and introspections about imagery: the role of imagery experience in shaping an investigator's theoretical views. Applied Cognitive Psychology, 2003, 17, 147-160.	1.6	213
51	Understanding the mind's eye...and nose. Nature Neuroscience, 2003, 6, 1124-1125.	14.8	21
52	Visual imagery in cerebral visual dysfunction. Neurologic Clinics, 2003, 21, 631-646.	1.8	24
53	Implicit transfer of motor strategies in mental rotation. Brain and Cognition, 2003, 52, 135-143.	1.8	131
54	Do separate processes identify objects as exemplars versus members of basic-level categories? Evidence from hemispheric specialization. Brain and Cognition, 2003, 53, 15-27.	1.8	53

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55	Mental imagery: against the nihilistic hypothesis. Trends in Cognitive Sciences, 2003, 7, 109-111.	7.8	66
56	When is early visual cortex activated during visual mental imagery?. Psychological Bulletin, 2003, 129, 723-746.	6.1	429
57	Bridging psychology and biology: the analysis of individuals in groups.. American Psychologist, 2002, 57, 341-351.	4.2	166
58	Eye movements during visual mental imagery. Trends in Cognitive Sciences, 2002, 6, 271-272.	7.8	59
59	Mental imagery doesn't work like that. Behavioral and Brain Sciences, 2002, 25, 198-200.	0.7	9
60	Visual cortex excitability increases during visual mental imageryâ€"a TMS study in healthy human subjects. Brain Research, 2002, 938, 92-97.	2.2	142
61	Visual mental images can be ambiguous: insights from individual differences in spatial transformation abilities. Cognition, 2002, 86, 57-70.	2.2	95
62	Bridging psychology and biology. The analysis of individuals in groups. American Psychologist, 2002, 57, 341-51.	4.2	50
63	Mental Imagery of High- and Low-Resolution Gratings Activates Area 17. NeuroImage, 2001, 14, 454-464.	4.2	50
64	Imagining rotation by endogenous versus exogenous forces: Distinct neural mechanisms. NeuroReport, 2001, 12, 2519-2525.	1.2	251
65	Mental Imagery of Visual Motion Modifies the Perception of Roll-Vection Stimulation. Perception, 2001, 30, 945-957.	1.2	31
66	Hemispheric differences in body image in anorexia nervosa. International Journal of Eating Disorders, 2001, 29, 409-416.	4.0	65
67	Genes, brain and cognition. Nature Neuroscience, 2001, 4, 1153-1154.	14.8	97
68	Neural foundations of imagery. Nature Reviews Neuroscience, 2001, 2, 635-642.	10.2	1,430
69	Deficits in visual cognition and attention following bilateral anterior cingulotomy. Neuropsychologia, 2001, 39, 219-230.	1.6	109
70	Science, Culture, Meaning, Values: A Dialogue. Annals of the New York Academy of Sciences, 2001, 935, 233-257.	3.8	1
71	Transient Activity in the Human Calcarine Cortex During Visual-Mental Imagery: An Event-Related fMRI Study. Journal of Cognitive Neuroscience, 2000, 12, 15-23.	2.3	157
72	Hypnotic Visual Illusion Alters Color Processing in the Brain. American Journal of Psychiatry, 2000, 157, 1279-1284.	7.2	281

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73	Neural Systems Activated during Visual Mental Imagery. , 2000, , 535-560.		48
74	Squinting with the mindâ€™s eye: Effects of stimulus resolution on imaginal and perceptual comparisons. Memory and Cognition, 1999, 27, 276-287.	1.6	100
75	Encoding Categorical and Coordinate Spatial Relations Without Input-Output Correlations: New Simulation Models. Cognitive Science, 1999, 23, 33-51.	1.7	11
76	The Cognitive Neuroscience Approach. , 1999, , 319-365.		25
77	The Representation of Left-Right Orientation: A Dissociation Between Imagery and Perceptual Recognition. Visual Cognition, 1999, 6, 497-508.	1.6	10
78	Aging and the Scope of Visual Attention. Gerontology, 1999, 45, 102-109.	2.8	34
79	Visual mental imagery interferes with allocentric orientation judgements. NeuroReport, 1999, 10, 3549-3553.	1.2	55
80	Mental rotation of objects versus hands: Neural mechanisms revealed by positron emission tomography. Psychophysiology, 1998, 35, 151-161.	2.4	543
81	Motor processes in mental rotation. Cognition, 1998, 68, 77-94.	2.2	556
82	The judgement of absence in neglect. Neuropsychologia, 1998, 36, 797-802.	1.6	3
83	Imagery and hypnotizability revisited. International Journal of Clinical and Experimental Hypnosis, 1998, 46, 363-370.	1.8	27
84	How Do the Cerebral Hemispheres Contribute to Encoding Spatial Relations?. Current Directions in Psychological Science, 1998, 7, 8-14.	5.3	66
85	Mental rotation of objects versus hands: Neural mechanisms revealed by positron emission tomography. Psychophysiology, 1998, 35, 151-161.	2.4	75
86	Neural systems that encode categorical versus coordinate spatial relations: PET investigations. Cognitive, Affective and Behavioral Neuroscience, 1998, 26, 333-347.	1.3	78
87	Functional anatomy of object recognition in humans. Current Opinion in Neurology, 1997, 10, 5-9.	3.6	30
88	Neural Systems Shared by Visual Imagery and Visual Perception: A Positron Emission Tomography Study. NeuroImage, 1997, 6, 320-334.	4.2	343
89	Detecting high-level and low-level properties in visual images and visual percepts. Cognition, 1997, 63, 209-226.	2.2	70
90	Enhanced Image Generation Abilities in Deaf Signers: A Right Hemisphere Effect. Brain and Cognition, 1996, 32, 28-44.	1.8	65

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91	Neural effects of visualizing and perceiving aversive stimuli. NeuroReport, 1996, 7, 1569-1576.	1.2	135
92	Encoding words and pictures: A positron emission tomography study. Neuropsychologia, 1996, 34, 185-194.	1.6	108
93	Individual Differences in Cerebral Blood Flow in Area 17 Predict the Time to Evaluate Visualized Letters. Journal of Cognitive Neuroscience, 1996, 8, 78-82.	2.3	118
94	On computational evidence for different types of spatial relations encoding: Reply to Cook et al. (1995).. Journal of Experimental Psychology: Human Perception and Performance, 1995, 21, 423-431.	0.9	16
95	Identifying objects at different levels of hierarchy: A positron emission tomography study. Human Brain Mapping, 1995, 3, 107-132.	3.6	63
96	A PET investigation of implicit and explicit sequence learning. Human Brain Mapping, 1995, 3, 271-286.	3.6	215
97	Topographical representations of mental images in primary visual cortex. Nature, 1995, 378, 496-498.	27.8	798
98	Two types of image generation: Evidence for left and right hemisphere processes. Neuropsychologia, 1995, 33, 1485-1510.	1.6	93
99	Neural Network Models as Evidence for Different Types of Visual Representations. Cognitive Science, 1995, 19, 575-579.	1.7	4
100	When does â€œnoâ€•really mean â€œyesâ€? A case study in unilateral visual neglect. Neuropsychologia, 1994, 32, 151-158.	1.6	23
101	Encoding Shape and Spatial Relations: The Role of Receptive Field Size in Coordinating Complementary Representations. Cognitive Science, 1994, 18, 361-386.	1.7	77
102	Mental imagery and aging.. Psychology and Aging, 1994, 9, 90-102.	1.6	164
103	Form-specific explicit and implicit memory in the right cerebral hemisphere.. Neuropsychology, 1994, 8, 588-597.	1.3	70
104	Hemispheric differences in sizes of receptive fields or attentional biases?. Neuropsychology, 1994, 8, 139-147.	1.3	21
105	Identifying objects seen from different viewpoints A PET investigation. Brain, 1994, 117, 1055-1071.	7.6	232
106	Image And Brain. , 1994, , .		1,452
107	The role of the corpus callosum in the representation of lateral orientation. Neuropsychologia, 1993, 31, 675-686.	1.6	5
108	Visual imagery and visual-spatial language: Enhanced imagery abilities in deaf and hearing ASL signers. Cognition, 1993, 46, 139-181.	2.2	206

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109	Visual Mental Imagery Activates Topographically Organized Visual Cortex: PET Investigations. Journal of Cognitive Neuroscience, 1993, 5, 263-287.	2.3	642
110	Cerebral lateralization. Current Opinion in Neurobiology, 1993, 3, 183-186.	4.2	49
111	Using Locations to Store Shape: An Indirect Effect of a Lesion. Cerebral Cortex, 1993, 3, 567-582.	2.9	17
112	Visual-spatial abilities of pilots.. Journal of Applied Psychology, 1993, 78, 763-773.	5.3	66
113	The Role of Parts and Spatial Relations in Object Identification. Perception, 1993, 22, 229-248.	1.2	111
114	IMAGES IN THE COMPUTER AND IMAGES IN THE BRAIN. Computational Intelligence, 1993, 9, 340-342.	3.2	2
115	Is Cognitive Neuropsychology Plausible? The Perils of Sitting on a One-Legged Stool. Journal of Cognitive Neuroscience, 1992, 4, 96-105.	2.3	67
116	Categorical versus coordinate spatial relations: Computational analyses and computer simulations.. Journal of Experimental Psychology: Human Perception and Performance, 1992, 18, 562-577.	0.9	196
117	Form-specific visual priming in the right cerebral hemisphere.. Journal of Experimental Psychology: Learning Memory and Cognition, 1992, 18, 492-508.	0.9	235
118	Cognitive Neuroscience and the Human Self. , 1992, , 37-56.		25
119	Mental imagery and dyslexia: A deficit in processing multipart visual objects?. Brain and Language, 1991, 41, 381-394.	1.6	28
120	Chapter 23 A cognitive neuroscience of visual cognition: Further developments. Advances in Psychology, 1991, , 351-381.	0.1	31
121	Thinking Visually. Mind and Language, 1990, 5, 324-341.	2.3	13
122	Naming pictures. Journal of Visual Languages and Computing, 1990, 1, 77-95.	1.8	16
123	Age Differences in Imagery Abilities. Child Development, 1990, 61, 995-1010.	3.0	177
124	Receptive Field Characteristics That Allow Parietal Lobe Neurons to Encode Spatial Properties of Visual Input: A Computational Analysis. Journal of Cognitive Neuroscience, 1990, 2, 141-155.	2.3	22
125	Age Differences in Imagery Abilities. Child Development, 1990, 61, 995.	3.0	155
126	The development of spatial relation representations: Evidence from studies of cerebral lateralization. Journal of Experimental Child Psychology, 1990, 50, 119-130.	1.4	43

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127	Components of high-level vision: A cognitive neuroscience analysis and accounts of neurological syndromes. Cognition, 1990, 34, 203-277.	2.2	294
128	Why are â€œWhatâ€•and â€œWhereâ€•Processed by Separate Cortical Visual Systems? A Computational Investigation. Journal of Cognitive Neuroscience, 1989, 1, 171-186.	2.3	247
129	Gestalt laws of perceptual organization in an embedded figures task: Evidence for hemispheric specialization. Neuropsychologia, 1989, 27, 1179-1186.	1.6	20
130	Understanding charts and graphs. Applied Cognitive Psychology, 1989, 3, 185-225.	1.6	352
131	Evidence for two types of spatial representations: Hemispheric specialization for categorical and coordinate relations.. Journal of Experimental Psychology: Human Perception and Performance, 1989, 15, 723-735.	0.9	412
132	Varieties of size-specific visual selection.. Journal of Experimental Psychology: General, 1989, 118, 148-164.	2.1	93
133	Mental imagery and sensory experience in congenital blindness. Neuropsychologia, 1988, 26, 1-12.	1.6	105
134	Sequential processes in image generation. Cognitive Psychology, 1988, 20, 319-343.	2.2	177
135	Construction of the third dimension in mental imagery. Cognitive Psychology, 1988, 20, 344-361.	2.2	57
136	Seeing and Imagining in the Cerebral Hemispheres: A Computational Approach. , 1988, , 615-642.		1
137	Seeing and imagining in the cerebral hemispheres: A computational approach.. Psychological Review, 1987, 94, 148-175.	3.8	916
138	Computer Graphics and Mental Imagery. , 1986, , 305-324.		4
139	A computational analysis of mental image generation: Evidence from functional dissociations in split-brain patients.. Journal of Experimental Psychology: General, 1985, 114, 311-341.	2.1	134
140	Connectionism: There's something to it. Behavioral and Brain Sciences, 1985, 8, 297-298.	0.7	2
141	Is time to scan visual images due to demand characteristics?. Memory and Cognition, 1985, 13, 320-332.	1.6	55
142	A left hemisphere basis for visual mental imagery?. Neuropsychologia, 1985, 23, 115-118.	1.6	98
143	Graphics and Human Information Processing: A Review of Five Books. Journal of the American Statistical Association, 1985, 80, 499-512.	3.1	102
144	Pictures and names: Making the connection. Cognitive Psychology, 1984, 16, 243-275.	2.2	469

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145	Individual differences in mental imagery ability: A computational analysis. Cognition, 1984, 18, 195-243.	2.2	200
146	Coordinate systems in the long-term memory representation of three-dimensional shapes. Cognitive Psychology, 1983, 15, 301-345.	2.2	43
147	Generating visual images: Units and relations.. Journal of Experimental Psychology: General, 1983, 112, 278-303.	2.1	97
148	The medium and the message in mental imagery: A theory.. Psychological Review, 1981, 88, 46-66.	3.8	390
149	Structure and Strategy in Image Generation*. Cognitive Science, 1981, 5, 371-383.	1.7	15
150	An Information-Processing Theory of Mental Imagery: A Case Study in the New Mentalistic Psychology. PSA Proceedings of the Biennial Meeting of the Philosophy of Science Association, 1980, 1980, 247-266.	0.1	3
151	Mental imagery acuity in the peripheral visual field.. Journal of Experimental Psychology: Human Perception and Performance, 1980, 6, 126-139.	0.9	133
152	On the demystification of mental imagery. Behavioral and Brain Sciences, 1979, 2, 535-548.	0.7	301
153	Visual images preserve metric spatial information: Evidence from studies of image scanning.. Journal of Experimental Psychology: Human Perception and Performance, 1978, 4, 47-60.	0.9	674
154	On the pictorial properties of visual images: Effects of image size on memory for words.. Canadian Journal of Psychology, 1977, 31, 32-40.	0.8	62
155	Category and continuum in mental comparisons.. Journal of Experimental Psychology: General, 1977, 106, 341-375.	2.1	148
156	A Simulation of Visual Imagery*. Cognitive Science, 1977, 1, 265-295.	1.7	194
157	If you speak slowly, do people read your prose slowly? Person-particular speech recoding during reading. Bulletin of the Psychonomic Society, 1977, 9, 250-252.	0.2	25
158	Children's drawings as data about internal representations. Journal of Experimental Child Psychology, 1977, 23, 191-211.	1.4	78
159	Imagery, propositions, and the form of internal representations. Cognitive Psychology, 1977, 9, 52-76.	2.2	475
160	A processing approach to the dual coding hypothesis.. Journal of Experimental Psychology Human Learning and Memory, 1976, 2, 223-233.	1.1	22
161	A multidimensional scaling study of visual memory of 5-year olds and adults. Journal of Experimental Child Psychology, 1975, 19, 327-345.	1.4	17
162	The Role of Imagery in Sentence Memory: A Developmental Study. Child Development, 1974, 45, 30.	3.0	16

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163	Cognitive Maps in Children and Men. Child Development, 1974, 45, 707.	3.0	173