Krish Sathian

List of Publications by Year
in descending order

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119	7,210	41344	58581
papers	citations	49 h-index	82 g-index

132	132	132	5091
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Involvement of visual cortex in tactile discrimination of orientation. Nature, 1999, 401, 587-590.	27.8	469
2	Feeling with the mindÊ¼s eye. NeuroReport, 1997, 8, 3877-3881.	1.2	236
3	Art for reward's sake: Visual art recruits the ventral striatum. NeuroImage, 2011, 55, 420-433.	4.2	236
4	Constraint-Induced Movement Therapy Results in Increased Motor Map Area in Subjects 3 to 9 Months After Stroke. Neurorehabilitation and Neural Repair, 2008, 22, 505-513.	2.9	190
5	Selective visuoâ€haptic processing of shape and texture. Human Brain Mapping, 2008, 29, 1123-1138.	3.6	186
6	Tactile perception in blind Braille readers: A psychophysical study of acuity and hyperacuity using gratings and dot patterns. Perception & Psychophysics, 2000, 62, 301-312.	2.3	180
7	Doing It with Mirrors: A Case Study of a Novel Approach to Neurorehabilitation. Neurorehabilitation and Neural Repair, 2000, 14, 73-76.	2.9	180
8	Metaphorically feeling: Comprehending textural metaphors activates somatosensory cortex. Brain and Language, 2012, 120, 416-421.	1.6	179
9	Effect of hemodynamic variability on Granger causality analysis of fMRI. NeuroImage, 2010, 52, 884-896.	4.2	169
10	Multisensory cortical processing of object shape and its relation to mental imagery. Cognitive, Affective and Behavioral Neuroscience, 2004, 4, 251-259.	2.0	168
11	Effective connectivity during haptic perception: A study using Granger causality analysis of functional magnetic resonance imaging data. NeuroImage, 2008, 40, 1807-1814.	4.2	167
12	Neural Evidence Linking Visual Object Enumeration and Attention. Journal of Cognitive Neuroscience, 1999, 11, 36-51.	2.3	164
13	A Putative Model of Multisensory Object Representation. Brain Topography, 2009, 21, 269-274.	1.8	156
14	Visual cortical activity during tactile perception in the sighted and the visually deprived. Developmental Psychobiology, 2005, 46, 279-286.	1.6	154
15	Temporal Cues Contribute to Tactile Perception of Roughness. Journal of Neuroscience, 2001, 21, 5289-5296.	3.6	153
16	Activity and effective connectivity of parietal and occipital cortical regions during haptic shape perception. Neuropsychologia, 2007, 45, 476-483.	1.6	145
17	Dual pathways for haptic and visual perception of spatial and texture information. NeuroImage, 2011, 57, 462-475.	4.2	143
18	Task-specific recruitment of dorsal and ventral visual areas during tactile perception. Neuropsychologia, 2004, 42, 1079-1087.	1.6	133

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19	Mnemonic strategy training partially restores hippocampal activity in patients with mild cognitive impairment. Hippocampus, 2012, 22, 1652-1658.	1.9	131
20	Activation and Effective Connectivity Changes Following Explicit-Memory Training for Faceâ€“Name Pairs in Patients With Mild Cognitive Impairment. Neurorehabilitation and Neural Repair, 2011, 25, 210-222.	2.9	122
21	Tactile spatial acuity and roughness discrimination: Impairments due to aging and Parkinson's disease. Neurology, 1997, 49, 168-177.	1.1	120
22	Tactile discrimination of grating orientation: fMRI activation patterns. Human Brain Mapping, 2005, 25, 370-377.	3.6	120
23	Feeling with the mind's eye: contribution of visual cortex to tactile perception. Behavioural Brain Research, 2002, 135, 127-132.	2.2	114
24	Tactile spatial acuity at the human fingertip and lip. Neurology, 1996, 46, 1464-1464.	1.1	107
25	Semantic confusion regarding the development of multisensory integration: a practical solution. European Journal of Neuroscience, 2010, 31, 1713-1720.	2.6	107
26	Tactile learning is task specific but transfers between fingers. Perception & Psychophysics, 1997, 59, 119-128.	2.3	99
27	Neural networks active during tactile form perception: common and differential activity during macrospatial and microspatial tasks. International Journal of Psychophysiology, 2003, 50, 41-49.	1.0	99
28	Perceived roughness of a grating: correlation with responses of mechanoreceptive afferents innervating the monkey's fingerpad. Journal of Neuroscience, 1989, 9, 1273-1279.	3.6	98
29	Vision and Touch: Multiple or Multisensory Representations of Objects?. Perception, 2007, 36, 1513-1521.	1.2	93
30	Changes in Resting State Effective Connectivity in the Motor Network Following Rehabilitation of Upper Extremity Poststroke Paresis. Topics in Stroke Rehabilitation, 2009, 16, 270-281.	1.9	89
31	Assessing and Compensating for Zero-Lag Correlation Effects in Time-Lagged Granger Causality Analysis of fMRI. IEEE Transactions on Biomedical Engineering, 2010, 57, 1446-1456.	4.2	89
32	Object familiarity modulates effective connectivity during haptic shape perception. NeuroImage, 2010, 49, 1991-2000.	4.2	89
33	Explicit memory training leads to improved memory for faceâ€“name pairs in patients with mild cognitive impairment: Results of a pilot investigation. Journal of the International Neuropsychological Society, 2008, 14, 883-889.	1.8	87
34	Posteromedial Parietal Cortical Activity and Inputs Predict Tactile Spatial Acuity. Journal of Neuroscience, 2007, 27, 11091-11102.	3.6	84
35	Object familiarity modulates the relationship between visual object imagery and haptic shape perception. NeuroImage, 2010, 49, 1977-1990.	4.2	81
36	Neurological Principles and Rehabilitation of Action Disorders. Neurorehabilitation and Neural Repair, 2011, 25, 21S-32S.	2.9	78

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37	Cross-modal plasticity of tactile perception in blindness. Restorative Neurology and Neuroscience, 2010, 28, 271-281.	0.7	77
38	Mnemonic strategy training improves memory for object location associations in both healthy elderly and patients with amnestic mild cognitive impairment: A randomized, single-blind study.. Neuropsychology, 2012, 26, 385-399.	1.3	77
39	Visuo-haptic multisensory object recognition, categorization, and representation. Frontiers in Psychology, 2014, 5, 730.	2.1	75
40	Analysis of haptic information in the cerebral cortex. Journal of Neurophysiology, 2016, 116, 1795-1806.	1.8	74
41	Neural processing underlying tactile microspatial discrimination in the blind: A functional magnetic resonance imaging study. Journal of Vision, 2008, 8, 13-13.	0.3	70
42	Cross-Modal Object Recognition Is Viewpoint-Independent. PLoS ONE, 2007, 2, e890.	2.5	65
43	The role of spatially selective attention in the tactile perception of texture. Perception & Psychophysics, 1991, 50, 237-248.	2.3	64
44	Spatial and temporal factors determining afferent fiber responses to a grating moving sinusoidally over the monkey's fingerpad. Journal of Neuroscience, 1989, 9, 1280-1293.	3.6	61
45	Short-term visual deprivation alters neural processing of tactile form. Experimental Brain Research, 2005, 166, 572-582.	1.5	58
46	Perceptual learning in tactile hyperacuity: complete intermanual transfer but limited retention. Experimental Brain Research, 1998, 118, 131-134.	1.5	55
47	Neural Changes with Tactile Learning Reflect Decision-Level Reweighting of Perceptual Readout. Journal of Neuroscience, 2013, 33, 5387-5398.	3.6	54
48	Altered responses to cutaneous stimuli in the second somatosensory cortex following lesions of the postcentral gyrus in infant and juvenile macaques. Journal of Comparative Neurology, 1990, 291, 395-414.	1.6	52
49	Tactile perception in developmental dyslexia: a psychophysical study using gratings. Neuropsychologia, 1999, 37, 1201-1211.	1.6	52
50	Feeling with the Mindâ€™s Eye: the Role of Visual Imagery in Tactile Perception. Optometry and Vision Science, 2001, 78, 276-281.	1.2	51
51	Where did I put that? Patients with amnestic mild cognitive impairment demonstrate widespread reductions in activity during the encoding of ecologically relevant object-location associations. Neuropsychologia, 2011, 49, 2349-2361.	1.6	51
52	Tactile shape discrimination recruits human lateral occipital complex during early perceptual processing. Human Brain Mapping, 2010, 31, 1813-1821.	3.6	47
53	Oscillatory activity in neocortical networks during tactile discrimination near the limit of spatial acuity. NeuroImage, 2014, 91, 300-310.	4.2	47
54	Alterations of restingâ€state fMRI measurements in individuals with cervical dystonia. Human Brain Mapping, 2017, 38, 4098-4108.	3.6	45

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55	Spatial imagery in haptic shape perception. Neuropsychologia, 2014, 60, 144-158.	1.6	44
56	Mental rotation of tactile stimuli. Cognitive Brain Research, 2002, 14, 91-98.	3.0	42
57	Patterns of effective connectivity during memory encoding and retrieval differ between patients with mild cognitive impairment and healthy older adults. NeuroImage, 2016, 124, 997-1008.	4.2	42
58	Practice makes perfect. Neurology, 2000, 54, 2203-2204.	1.1	41
59	Intermanual referral of sensation to anesthetic hands. Neurology, 2000, 54, 1866-1868.	1.1	41
60	Differential patterns of cortical reorganization following constraint-induced movement therapy during early and late period after stroke: A preliminary study. NeuroRehabilitation, 2014, 35, 415-426.	1.3	41
61	Perceptual learning of view-independence in visuo-haptic object representations. Experimental Brain Research, 2009, 198, 329-337.	1.5	40
62	Tactile sensing of surface features. Trends in Neurosciences, 1989, 12, 513-519.	8.6	39
63	Multisensory object representation. Progress in Brain Research, 2011, 191, 165-176.	1.4	35
64	Journeying beyond classical somatosensory cortex.. Canadian Journal of Experimental Psychology, 2007, 61, 254-264.	0.8	32
65	Synesthesia strengthens soundâ€symbolic crossâ€modal correspondences. European Journal of Neuroscience, 2016, 44, 2716-2721.	2.6	30
66	A Functional Magnetic Resonance Imaging Study of Head Movements in Cervical Dystonia. Frontiers in Neurology, 2016, 7, 201.	2.4	29
67	Object and spatial imagery dimensions in visuo-haptic representations. Experimental Brain Research, 2011, 213, 267-273.	1.5	26
68	Neural basis of the crossmodal correspondence between auditory pitch and visuospatial elevation. Neuropsychologia, 2018, 112, 19-30.	1.6	26
69	Engagement of the left extrastriate body area during body-part metaphor comprehension. Brain and Language, 2017, 166, 1-18.	1.6	25
70	Do the magnocellular and parvocellular visual pathways contribute differentially to subitizing and counting?. Perception & Psychophysics, 1998, 60, 451-464.	2.3	24
71	Are surface properties integrated into visuohaptic object representations?. European Journal of Neuroscience, 2010, 31, 1882-1888.	2.6	22
72	Translational MRI Volumetry with NeuroQuant: Effects of Version and Normative Data on Relationships with Memory Performance in Healthy Older Adults and Patients with Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2017, 60, 1499-1510.	2.6	22

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73	Interactions Between Auditory Elevation, Auditory Pitch and Visual Elevation During Multisensory Perception. Multisensory Research, 2017, 30, 287-306.	1.1	20
74	Mnemonic strategy training increases neocortical activation in healthy older adults and patients with mild cognitive impairment. International Journal of Psychophysiology, 2020, 154, 27-36.	1.0	18
75	Neural Substrates for Head Movements in Humans: A Functional Magnetic Resonance Imaging Study. Journal of Neuroscience, 2015, 35, 9163-9172.	3.6	14
76	Enhanced verbal abilities in the congenitally blind. Experimental Brain Research, 2017, 235, 1709-1718.	1.5	14
77	Primary motor cortical activity during unimanual movements with increasing demand on precision. Journal of Neurophysiology, 2020, 124, 728-739.	1.8	14
78	Superior verbal abilities in congenital blindness. IS&T International Symposium on Electronic Imaging, 2016, 28, 1-4.	0.4	14
79	A rigorous approach for testing the constructionist hypotheses of brain function. Behavioral and Brain Sciences, 2012, 35, 148-149.	0.7	13
80	Stimulus Parameters Underlying Soundâ€Symbolic Mapping of Auditory Pseudowords to Visual Shapes. Cognitive Science, 2020, 44, e12883.	1.7	13
81	Somatosensory Processing Is Impaired in Temporal Lobe Epilepsy. Epilepsia, 2005, 46, 534-539.	5.1	12
82	Modality, quo vadis?. Behavioral and Brain Sciences, 2004, 27, 413-414.	0.7	11
83	Structure-Function Correlations in Stroke. Neuron, 2015, 85, 887-889.	8.1	11
84	Diminished neural network dynamics in amnestic mild cognitive impairment. International Journal of Psychophysiology, 2018, 130, 63-72.	1.0	11
85	Neuronal Responses in Ventroposterolateral Nucleus of Thalamus in Monkeys (Macaca mulatta) during Active Touch of Gratings. Somatosensory & Motor Research, 1991, 8, 293-300.	0.9	10
86	Loss of form vision impairs spatial imagery. Frontiers in Human Neuroscience, 2014, 8, 159.	2.0	10
87	Accounting for Non-Gaussian Sources of Spatial Correlation in Parametric Functional Magnetic Resonance Imaging Paradigms I: Revisiting Cluster-Based Inferences. Brain Connectivity, 2018, 8, 1-9.	1.7	10
88	Audiovisual crossmodal correspondences. , 2020, , 239-258.		9
89	Crossmodal and multisensory interactions between vision and touch. Scholarpedia Journal, 2015, 10, 7957.	0.3	9
90	Crossmodal and Multisensory Interactions Between Vision and Touch. , 2016, , 301-315.		8

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91	Neuroimaging somatosensory perception and masking. Neuropsychologia, 2017, 94, 44-51.	1.6	7
92	Accounting for Non-Gaussian Sources of Spatial Correlation in Parametric Functional Magnetic Resonance Imaging Paradigms II: A Method to Obtain First-Level Analysis Residuals with Uniform and Gaussian Spatial Autocorrelation Function and Independent and Identically Distributed Time-Series. Brain Connectivity, 2018, 8, 10-21.	1.7	7
93	Neural Basis of the Sound-Symbolic Crossmodal Correspondence Between Auditory Pseudowords and Visual Shapes. Multisensory Research, 2021, 35, 29-78.	1.1	7
94	Mirror-image symmetry and search asymmetry: A comparison of their effects on visual search and a possible unifying explanation. Vision Research, 2006, 46, 1263-1281.	1.4	6
95	Mirror, Mirror, Move My Manu!. Neurorehabilitation and Neural Repair, 2009, 23, 207-208.	2.9	6
96	Use of complex three-dimensional objects to assess visuospatial memory in healthy individuals and patients with unilateral amygdalohippocampectomy. Epilepsy and Behavior, 2010, 18, 54-60.	1.7	6
97	Model-based assessment and neural correlates of spatial memory deficits in mild cognitive impairment. Neuropsychologia, 2020, 136, 107251.	1.6	6
98	Motion perception in Alzheimer's disease. Neurology, 1995, 45, 1633-1634.	1.1	5
99	Haptically evoked activation of visual cortex. , 2008, , 251-257.		5
100	Visuo-haptic object perception. , 2020, , 157-178.		5
101	Haptic Object Recognition is View-Independent in Early Blind but not Sighted People. Perception, 2016, 45, 337-345.	1.2	4
102	January 16 Highlight and Commentary: Subspecialization within somatosensory cortex. Neurology, 2007, 68, 167-167.	1.1	3
103	Consistency and strength of grapheme-color associations are separable aspects of synesthetic experience. Consciousness and Cognition, 2021, 91, 103137.	1.5	3
104	Visual Imagery in Haptic Shape Perception. , 2013, , 207-219.		3
105	Toward rational use of cognitive training in those with mild cognitive impairment. Alzheimer's and Dementia, 2023, 19, 933-945.	0.8	3
106	The buzz of consciousness. Neurology, 2002, 59, 800-801.	1.1	2
107	Multifaceted functional specialization of somatosensory information processing. Behavioral and Brain Sciences, 2007, 30, 219-220.	0.7	2
108	Cross-modal Involvement of Visual Cortex in Tactile Perception. , 2007, , 119-134.		2

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109	Representation of Object Form in Vision and Touch. Frontiers in Neuroscience, 2011, , 179-188.	0.0	2
110	Tactile co-activation improves detection of afferent spatial modulation. Experimental Brain Research, 2009, 194, 409-417.	1.5	1
111	Consciousness post corpus callosotomy. Brain, 2017, 140, e38-e38.	7.6	1
112	2334 Neural correlates of externally Versus internally guided dance-based therapies for people with Parkinsonâ€™s disease. Journal of Clinical and Translational Science, 2018, 2, 21-21.	0.6	1
113	Crossmodal Visuospatial Effects on Auditory Perception of Musical Contour. Multisensory Research, 2020, 34, 113-127.	1.1	1
114	Cross-Modal and Multisensory Interactions between Vision and Touch. , 2008, , 393-404.		1
115	JANUARY 16 HIGHLIGHT AND COMMENTARY: SUBSPECIALIZATION WITHIN SOMATOSENSORY CORTEX. Neurology, 2007, 68, 1955-1956.	1.1	0
116	Spatial imagery is more associated with unfamiliar than familiar haptic shape perception: Activation and connectivity analyses. Multisensory Research, 2013, 26, 162-163.	1.1	0
117	Cross-Modal Interactions Between Vision and Touch. , 2009, , 259-263.		0
118	Perceptual versus attentional factors in visual search. Journal of Vision, 2010, 2, 540-540.	0.3	0
119	Cross-Modal and Multisensory Interactions Between Vision and Touch. , 2020, , 324-332.		0