

Krish Sathian

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

6,031
citations

46
h-index

76
g-index

132
ext. papers

6,653
ext. citations

4.3
avg, IF

5.83
L-index

#	Paper	IF	Citations
116	Involvement of visual cortex in tactile discrimination of orientation. <i>Nature</i> , 1999 , 401, 587-90	50.4	420
115	Feeling with the mind's eye. <i>NeuroReport</i> , 1997 , 8, 3877-81	1.7	215
114	Art for reward's sake: visual art recruits the ventral striatum. <i>NeuroImage</i> , 2011 , 55, 420-33	7.9	168
113	Constraint-induced movement therapy results in increased motor map area in subjects 3 to 9 months after stroke. <i>Neurorehabilitation and Neural Repair</i> , 2008 , 22, 505-13	4.7	161
112	Effective connectivity during haptic perception: a study using Granger causality analysis of functional magnetic resonance imaging data. <i>NeuroImage</i> , 2008 , 40, 1807-14	7.9	155
111	Tactile perception in blind Braille readers: a psychophysical study of acuity and hyperacuity using gratings and dot patterns. <i>Perception & Psychophysics</i> , 2000 , 62, 301-12		155
110	Multisensory cortical processing of object shape and its relation to mental imagery. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2004 , 4, 251-9	3.5	150
109	Doing it with mirrors: a case study of a novel approach to neurorehabilitation. <i>Neurorehabilitation and Neural Repair</i> , 2000 , 14, 73-6	4.7	150
108	Selective visuo-haptic processing of shape and texture. <i>Human Brain Mapping</i> , 2008 , 29, 1123-38	5.9	148
107	Neural evidence linking visual object enumeration and attention. <i>Journal of Cognitive Neuroscience</i> , 1999 , 11, 36-51	3.1	144
106	Effect of hemodynamic variability on Granger causality analysis of fMRI. <i>NeuroImage</i> , 2010 , 52, 884-96	7.9	143
105	A putative model of multisensory object representation. <i>Brain Topography</i> , 2009 , 21, 269-74	4.3	139
104	Activity and effective connectivity of parietal and occipital cortical regions during haptic shape perception. <i>Neuropsychologia</i> , 2007 , 45, 476-83	3.2	136
103	Visual cortical activity during tactile perception in the sighted and the visually deprived. <i>Developmental Psychobiology</i> , 2005 , 46, 279-86	3	128
102	Metaphorically feeling: comprehending textural metaphors activates somatosensory cortex. <i>Brain and Language</i> , 2012 , 120, 416-21	2.9	127
101	Temporal cues contribute to tactile perception of roughness. <i>Journal of Neuroscience</i> , 2001 , 21, 5289-966.6		127
100	Task-specific recruitment of dorsal and ventral visual areas during tactile perception. <i>Neuropsychologia</i> , 2004 , 42, 1079-87	3.2	124

99	Dual pathways for haptic and visual perception of spatial and texture information. <i>NeuroImage</i> , 2011 , 57, 462-75	7.9	123
98	Mnemonic strategy training partially restores hippocampal activity in patients with mild cognitive impairment. <i>Hippocampus</i> , 2012 , 22, 1652-8	3.5	112
97	Tactile spatial acuity and roughness discrimination: impairments due to aging and Parkinson's disease. <i>Neurology</i> , 1997 , 49, 168-77	6.5	107
96	Activation and effective connectivity changes following explicit-memory training for face-name pairs in patients with mild cognitive impairment: a pilot study. <i>Neurorehabilitation and Neural Repair</i> , 2011 , 25, 210-22	4.7	106
95	Tactile discrimination of grating orientation: fMRI activation patterns. <i>Human Brain Mapping</i> , 2005 , 25, 370-7	5.9	105
94	Feeling with the mind's eye: contribution of visual cortex to tactile perception. <i>Behavioural Brain Research</i> , 2002 , 135, 127-32	3.4	103
93	Tactile spatial acuity at the human fingertip and lip: bilateral symmetry and interdigit variability. <i>Neurology</i> , 1996 , 46, 1464-6	6.5	94
92	Semantic confusion regarding the development of multisensory integration: a practical solution. <i>European Journal of Neuroscience</i> , 2010 , 31, 1713-20	3.5	90
91	Neural networks active during tactile form perception: common and differential activity during macrospatial and microspatial tasks. <i>International Journal of Psychophysiology</i> , 2003 , 50, 41-9	2.9	88
90	Tactile learning is task specific but transfers between fingers. <i>Perception & Psychophysics</i> , 1997 , 59, 119-28		85
89	Perceived roughness of a grating: correlation with responses of mechanoreceptive afferents innervating the monkey's fingerpad. <i>Journal of Neuroscience</i> , 1989 , 9, 1273-9	6.6	85
88	Assessing and compensating for zero-lag correlation effects in time-lagged Granger causality analysis of fMRI. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 1446-56	5	80
87	Object familiarity modulates effective connectivity during haptic shape perception. <i>NeuroImage</i> , 2010 , 49, 1991-2000	7.9	78
86	Explicit memory training leads to improved memory for face-name pairs in patients with mild cognitive impairment: results of a pilot investigation. <i>Journal of the International Neuropsychological Society</i> , 2008 , 14, 883-9	3.1	77
85	Changes in resting state effective connectivity in the motor network following rehabilitation of upper extremity poststroke paresis. <i>Topics in Stroke Rehabilitation</i> , 2009 , 16, 270-81	2.6	76
84	Vision and touch: multiple or multisensory representations of objects?. <i>Perception</i> , 2007 , 36, 1513-21	1.2	76
83	Object familiarity modulates the relationship between visual object imagery and haptic shape perception. <i>NeuroImage</i> , 2010 , 49, 1977-90	7.9	65
82	Posteromedial parietal cortical activity and inputs predict tactile spatial acuity. <i>Journal of Neuroscience</i> , 2007 , 27, 11091-102	6.6	63

81	Mnemonic strategy training improves memory for object location associations in both healthy elderly and patients with amnesic mild cognitive impairment: a randomized, single-blind study. <i>Neuropsychology</i> , 2012 , 26, 385-99	3.8	62
80	Neural processing underlying tactile microspatial discrimination in the blind: a functional magnetic resonance imaging study. <i>Journal of Vision</i> , 2008 , 8, 13.1-19	0.4	61
79	Neurological principles and rehabilitation of action disorders: common clinical deficits. <i>Neurorehabilitation and Neural Repair</i> , 2011 , 25, 21S-32S	4.7	58
78	Cross-modal plasticity of tactile perception in blindness. <i>Restorative Neurology and Neuroscience</i> , 2010 , 28, 271-81	2.8	57
77	The role of spatially selective attention in the tactile perception of texture. <i>Perception & Psychophysics</i> , 1991 , 50, 237-48		55
76	Spatial and temporal factors determining afferent fiber responses to a grating moving sinusoidally over the monkey's fingerpad. <i>Journal of Neuroscience</i> , 1989 , 9, 1280-93	6.6	55
75	Visuo-haptic multisensory object recognition, categorization, and representation. <i>Frontiers in Psychology</i> , 2014 , 5, 730	3.4	54
74	Perceptual learning in tactile hyperacuity: complete intermanual transfer but limited retention. <i>Experimental Brain Research</i> , 1998 , 118, 131-4	2.3	51
73	Cross-modal object recognition is viewpoint-independent. <i>PLoS ONE</i> , 2007 , 2, e890	3.7	51
72	Short-term visual deprivation alters neural processing of tactile form. <i>Experimental Brain Research</i> , 2005 , 166, 572-82	2.3	49
71	Tactile perception in developmental dyslexia: a psychophysical study using gratings. <i>Neuropsychologia</i> , 1999 , 37, 1201-11	3.2	49
70	Altered responses to cutaneous stimuli in the second somatosensory cortex following lesions of the postcentral gyrus in infant and juvenile macaques. <i>Journal of Comparative Neurology</i> , 1990 , 291, 395-414	3.4	46
69	Neural changes with tactile learning reflect decision-level reweighting of perceptual readout. <i>Journal of Neuroscience</i> , 2013 , 33, 5387-98	6.6	45
68	Analysis of haptic information in the cerebral cortex. <i>Journal of Neurophysiology</i> , 2016 , 116, 1795-1806	3.2	44
67	Feeling with the mind's eye: the role of visual imagery in tactile perception. <i>Optometry and Vision Science</i> , 2001 , 78, 276-81	2.1	43
66	Where did I put that? Patients with amnesic mild cognitive impairment demonstrate widespread reductions in activity during the encoding of ecologically relevant object-location associations. <i>Neuropsychologia</i> , 2011 , 49, 2349-61	3.2	41
65	Tactile shape discrimination recruits human lateral occipital complex during early perceptual processing. <i>Human Brain Mapping</i> , 2010 , 31, 1813-21	5.9	41
64	Intermanual referral of sensation to anesthetic hands. <i>Neurology</i> , 2000 , 54, 1866-8	6.5	38

63	Mental rotation of tactile stimuli. <i>Cognitive Brain Research</i> , 2002 , 14, 91-8		37
62	Spatial imagery in haptic shape perception. <i>Neuropsychologia</i> , 2014 , 60, 144-58	3.2	35
61	Patterns of effective connectivity during memory encoding and retrieval differ between patients with mild cognitive impairment and healthy older adults. <i>NeuroImage</i> , 2016 , 124, 997-1008	7.9	34
60	Oscillatory activity in neocortical networks during tactile discrimination near the limit of spatial acuity. <i>NeuroImage</i> , 2014 , 91, 300-10	7.9	34
59	Differential patterns of cortical reorganization following constraint-induced movement therapy during early and late period after stroke: A preliminary study. <i>NeuroRehabilitation</i> , 2014 , 35, 415-26	2	34
58	Perceptual learning of view-independence in visuo-haptic object representations. <i>Experimental Brain Research</i> , 2009 , 198, 329-37	2.3	34
57	Alterations of resting-state fMRI measurements in individuals with cervical dystonia. <i>Human Brain Mapping</i> , 2017 , 38, 4098-4108	5.9	32
56	Multisensory object representation: insights from studies of vision and touch. <i>Progress in Brain Research</i> , 2011 , 191, 165-76	2.9	31
55	Journeying beyond classical somatosensory cortex. <i>Canadian Journal of Experimental Psychology</i> , 2007 , 61, 254-64	0.8	30
54	Tactile sensing of surface features. <i>Trends in Neurosciences</i> , 1989 , 12, 513-9	13.3	30
53	A Functional Magnetic Resonance Imaging Study of Head Movements in Cervical Dystonia. <i>Frontiers in Neurology</i> , 2016 , 7, 201	4.1	24
52	Synesthesia strengthens sound-symbolic cross-modal correspondences. <i>European Journal of Neuroscience</i> , 2016 , 44, 2716-2721	3.5	22
51	Object and spatial imagery dimensions in visuo-haptic representations. <i>Experimental Brain Research</i> , 2011 , 213, 267-73	2.3	21
50	Do the magnocellular and parvocellular visual pathways contribute differentially to subitizing and counting?. <i>Perception & Psychophysics</i> , 1998 , 60, 451-64		21
49	Engagement of the left extrastriate body area during body-part metaphor comprehension. <i>Brain and Language</i> , 2017 , 166, 1-18	2.9	18
48	Are surface properties integrated into visuohaptic object representations?. <i>European Journal of Neuroscience</i> , 2010 , 31, 1882-8	3.5	17
47	Interactions Between Auditory Elevation, Auditory Pitch and Visual Elevation During Multisensory Perception. <i>Multisensory Research</i> , 2017 , 30, 287-306	1.9	16
46	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. <i>Journal of Alzheimers Disease</i> , 2017 , 60, 1499-1510	4.3	15

45	Neural basis of the crossmodal correspondence between auditory pitch and visuospatial elevation. <i>Neuropsychologia</i> , 2018 , 112, 19-30	3.2	14
44	Neural Substrates for Head Movements in Humans: A Functional Magnetic Resonance Imaging Study. <i>Journal of Neuroscience</i> , 2015 , 35, 9163-72	6.6	13
43	Mnemonic strategy training increases neocortical activation in healthy older adults and patients with mild cognitive impairment. <i>International Journal of Psychophysiology</i> , 2020 , 154, 27-36	2.9	13
42	A rigorous approach for testing the constructionist hypotheses of brain function. <i>Behavioral and Brain Sciences</i> , 2012 , 35, 148-9	0.9	11
41	Modality, quo vadis?. <i>Behavioral and Brain Sciences</i> , 2004 , 27, 413-414	0.9	11
40	Neuronal responses in ventroposterolateral nucleus of thalamus in monkeys (<i>Macaca mulatta</i>) during active touch of gratings. <i>Somatosensory & Motor Research</i> , 1991 , 8, 293-300	1.2	10
39	Enhanced verbal abilities in the congenitally blind. <i>Experimental Brain Research</i> , 2017 , 235, 1709-1718	2.3	9
38	Somatosensory processing is impaired in temporal lobe epilepsy. <i>Epilepsia</i> , 2005 , 46, 534-9	6.4	9
37	Structure-function correlations in stroke. <i>Neuron</i> , 2015 , 85, 887-9	13.9	8
36	Accounting for Non-Gaussian Sources of Spatial Correlation in Parametric Functional Magnetic Resonance Imaging Paradigms I: Revisiting Cluster-Based Inferences. <i>Brain Connectivity</i> , 2018 , 8, 1-9	2.7	8
35	Diminished neural network dynamics in amnesic mild cognitive impairment. <i>International Journal of Psychophysiology</i> , 2018 , 130, 63-72	2.9	7
34	CROSSMODAL AND MULTISENSORY INTERACTIONS BETWEEN VISION AND TOUCH. <i>Scholarpedia Journal</i> , 2015 , 10, 7957	1.5	7
33	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. <i>Brain Connectivity</i> , 2018 , 8, 10-21	2.7	6
32	Loss of form vision impairs spatial imagery. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 159	3.3	6
31	Primary motor cortical activity during unimanual movements with increasing demand on precision. <i>Journal of Neurophysiology</i> , 2020 , 124, 728-739	3.2	6
30	Neuroimaging somatosensory perception and masking. <i>Neuropsychologia</i> , 2017 , 94, 44-51	3.2	5
29	Crossmodal and Multisensory Interactions Between Vision and Touch 2016 , 301-315		5
28	Use of complex three-dimensional objects to assess visuospatial memory in healthy individuals and patients with unilateral amygdalohippocampectomy. <i>Epilepsy and Behavior</i> , 2010 , 18, 54-60	3.2	5

27	Stimulus Parameters Underlying Sound-Symbolic Mapping of Auditory Pseudowords to Visual Shapes. <i>Cognitive Science</i> , 2020 , 44, e12883	2.2	5
26	Mirror-image symmetry and search asymmetry: a comparison of their effects on visual search and a possible unifying explanation. <i>Vision Research</i> , 2006 , 46, 1263-81	2.1	4
25	Motion perception in Alzheimer's disease. <i>Neurology</i> , 1995 , 45, 1633-4; author reply 1634-5	6.5	4
24	Neural Basis of the Sound-Symbolic Crossmodal Correspondence Between Auditory Pseudowords and Visual Shapes		3
23	Haptic Object Recognition is View-Independent in Early Blind but not Sighted People. <i>Perception</i> , 2016 , 45, 337-45	1.2	2
22	Haptically evoked activation of visual cortex 2008 , 251-257		2
21	January 16 Highlight and Commentary: Subspecialization within somatosensory cortex. <i>Neurology</i> , 2007 , 68, 167-167	6.5	2
20	Representation of Object Form in Vision and Touch. <i>Frontiers in Neuroscience</i> , 2011 , 179-188		2
19	Superior verbal abilities in congenital blindness. <i>IS&T International Symposium on Electronic Imaging</i> , 2016 , 2016, 1-4	1	2
18	Representation of Object Form in Vision and Touch. <i>Frontiers in Neuroscience</i> , 2011 , 179-188		2
17	Model-based assessment and neural correlates of spatial memory deficits in mild cognitive impairment. <i>Neuropsychologia</i> , 2020 , 136, 107251	3.2	2
16	Audiovisual crossmodal correspondences 2020 , 239-258		2
15	Consistency and strength of grapheme-color associations are separable aspects of synesthetic experience. <i>Consciousness and Cognition</i> , 2021 , 91, 103137	2.6	2
14	Cross-modal Involvement of Visual Cortex in Tactile Perception 2007 , 119-134		2
13	Consciousness post corpus callosotomy. <i>Brain</i> , 2017 , 140, e38	11.2	1
12	Visuo-haptic object perception 2020 , 157-178		1
11	Tactile co-activation improves detection of afferent spatial modulation. <i>Experimental Brain Research</i> , 2009 , 194, 409-17	2.3	1
10	Multifaceted functional specialization of somatosensory information processing. <i>Behavioral and Brain Sciences</i> , 2007 , 30, 219-220	0.9	1

9	Cross-Modal and Multisensory Interactions between Vision and Touch 2008 , 393-404		1
8	Crossmodal Visuospatial Effects on Auditory Perception of Musical Contour. <i>Multisensory Research</i> , 2020 , 34, 113-127	1.9	1
7	2334 Neural correlates of externally Versus internally guided dance-based therapies for people with Parkinson disease. <i>Journal of Clinical and Translational Science</i> , 2018 , 2, 21-21	0.4	1
6	Neural Basis of the Sound-Symbolic Crossmodal Correspondence Between Auditory Pseudowords and Visual Shapes. <i>Multisensory Research</i> , 2021 , 1-50	1.9	1
5	Visual Imagery in Haptic Shape Perception 2013 , 207-219		0
4	Spatial imagery is more associated with unfamiliar than familiar haptic shape perception: Activation and connectivity analyses. <i>Multisensory Research</i> , 2013 , 26, 162-163	1.9	
3	January 16 highlight and commentary: subspecialization within somatosensory cortex. <i>Neurology</i> , 2007 , 68, 1955; author reply 1955-6	6.5	
2	Cross-Modal and Multisensory Interactions Between Vision and Touch 2020 , 324-332		
1	Cross-Modal Interactions Between Vision and Touch 2009 , 259-263		