

Sheng He

List of Publications by Year in descending order

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84
papers

4,775
citations

159585

30
h-index

102487

66
g-index

89
all docs

89
docs citations

89
times ranked

3900
citing authors

#	ARTICLE	IF	CITATIONS
1	Attentional resolution and the locus of visual awareness. <i>Nature</i> , 1996, 383, 334-337.	27.8	981
2	Cortical responses to invisible objects in the human dorsal and ventral pathways. <i>Nature Neuroscience</i> , 2005, 8, 1380-1385.	14.8	364
3	A gender- and sexual orientation-dependent spatial attentional effect of invisible images. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17048-17052.	7.1	307
4	Processing of Invisible Stimuli: Advantage of Upright Faces and Recognizable Words in Overcoming Interocular Suppression. <i>Psychological Science</i> , 2007, 18, 349-355.	3.3	281
5	Cortical Responses to Invisible Faces: Dissociating Subsystems for Facial-Information Processing. <i>Current Biology</i> , 2006, 16, 2023-2029.	3.9	251
6	Binocular Rivalry Requires Visual Attention. <i>Neuron</i> , 2011, 71, 362-369.	8.1	224
7	Orientation-Tuned fMRI Adaptation in Human Visual Cortex. <i>Journal of Neurophysiology</i> , 2005, 94, 4188-4195.	1.8	170
8	Single-Cell Analysis of Human Retina Identifies Evolutionarily Conserved and Species-Specific Mechanisms Controlling Development. <i>Developmental Cell</i> , 2020, 53, 473-491.e9.	7.0	170
9	Viewer-Centered Object Representation in the Human Visual System Revealed by Viewpoint Aftereffects. <i>Neuron</i> , 2005, 45, 793-800.	8.1	156
10	Orientation-selective adaptation and tilt after-effect from invisible patterns. <i>Nature</i> , 2001, 411, 473-476.	27.8	134
11	Dynamics of processing invisible faces in the brain: Automatic neural encoding of facial expression information. <i>NeuroImage</i> , 2009, 44, 1171-1177.	4.2	97
12	DeepOtsu: Document enhancement and binarization using iterative deep learning. <i>Pattern Recognition</i> , 2019, 91, 379-390.	8.1	97
13	Writer identification using curvature-free features. <i>Pattern Recognition</i> , 2017, 63, 451-464.	8.1	75
14	Topology-defined units in numerosity perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5647-55.	7.1	72
15	Deep adaptive learning for writer identification based on single handwritten word images. <i>Pattern Recognition</i> , 2019, 88, 64-74.	8.1	58
16	Monocular deprivation of Fourier phase information boosts the deprived eye's dominance during interocular competition but not interocular phase combination. <i>Neuroscience</i> , 2017, 352, 122-130.	2.3	56
17	FragNet: Writer Identification Using Deep Fragment Networks. <i>IEEE Transactions on Information Forensics and Security</i> , 2020, 15, 3013-3022.	6.9	55
18	Chemosensory Communication of Gender through Two Human Steroids in a Sexually Dimorphic Manner. <i>Current Biology</i> , 2014, 24, 1091-1095.	3.9	54

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19	Perceptual Grouping without Awareness: Superiority of Kanizsa Triangle in Breaking Interocular Suppression. PLoS ONE, 2012, 7, e40106.	2.5	53
20	Binocular rivalry from invisible patterns. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8408-8413.	7.1	52
21	Global-Local Transformer for Brain Age Estimation. IEEE Transactions on Medical Imaging, 2022, 41, 213-224.	8.9	51
22	Selective reduction of fMRI responses to transient achromatic stimuli in the magnocellular layers of the LGN and the superficial layer of the SC of early glaucoma patients. Human Brain Mapping, 2016, 37, 558-569.	3.6	50
23	One-vs-One classification for deep neural networks. Pattern Recognition, 2020, 108, 107528.	8.1	48
24	Genes contribute to the switching dynamics of bistable perception. Journal of Vision, 2011, 11, 8-8.	0.3	44
25	Layer-specific response properties of the human lateral geniculate nucleus and superior colliculus. NeuroImage, 2015, 111, 159-166.	4.2	44
26	Visible binocular beats from invisible monocular stimuli during binocular rivalry. Current Biology, 2000, 10, 1055-1058.	3.9	41
27	Heritable aspects of biological motion perception and its covariation with autistic traits. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1937-1942.	7.1	40
28	Transfer of the face viewpoint aftereffect from adaptation to different and inverted faces. Journal of Vision, 2007, 7, 6.	0.3	39
29	Image-based historical manuscript dating using contour and stroke fragments. Pattern Recognition, 2016, 58, 159-171.	8.1	35
30	Artificial intelligence and machine learning assisted drug delivery for effective treatment of infectious diseases. Advanced Drug Delivery Reviews, 2021, 178, 113922.	13.7	34
31	Altered interhemispheric functional connectivity in patients with anisometropic and strabismic amblyopia: a resting-state fMRI study. Neuroradiology, 2017, 59, 517-524.	2.2	33
32	Beyond OCR: Multi-faceted understanding of handwritten document characteristics. Pattern Recognition, 2017, 63, 321-333.	8.1	33
33	The Independent and Shared Mechanisms of Intrinsic Brain Dynamics: Insights From Bistable Perception. Frontiers in Psychology, 2018, 9, 589.	2.1	32
34	Temporally flexible feedback signal to foveal cortex for peripheral object recognition. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11627-11632.	7.1	31
35	Development of neural specialization for print: Evidence for predictive coding in visual word recognition. PLoS Biology, 2019, 17, e3000474.	5.6	31
36	Chinese and Korean Characters Engage the Same Visual Word Form Area in Proficient Early Chinese-Korean Bilinguals. PLoS ONE, 2011, 6, e22765.	2.5	30

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37	GR-RNN: Global-context residual recurrent neural networks for writer identification. <i>Pattern Recognition</i> , 2021, 117, 107975.	8.1	30
38	Frequency of alpha oscillation predicts individual differences in perceptual stability during binocular rivalry. <i>Human Brain Mapping</i> , 2019, 40, 2422-2433.	3.6	27
39	The bottom-up and top-down processing of faces in the human occipitotemporal cortex. <i>ELife</i> , 2020, 9, .	6.0	27
40	Localization and Functional Characterization of an Occipital Visual Word form Sensitive Area. <i>Scientific Reports</i> , 2018, 8, 6723.	3.3	25
41	Historical manuscript dating based on temporal pattern codebook. <i>Computer Vision and Image Understanding</i> , 2016, 152, 167-175.	4.7	24
42	Slower and Less Variable Binocular Rivalry Rates in Patients With Bipolar Disorder, OCD, Major Depression, and Schizophrenia. <i>Frontiers in Neuroscience</i> , 2019, 13, 514.	2.8	23
43	Temporal characteristics of binocular rivalry: visual field asymmetries. <i>Vision Research</i> , 2003, 43, 2207-2212.	1.4	21
44	Deactivation in the posterior mid-cingulate cortex reflects perceptual transitions during binocular rivalry: Evidence from simultaneous EEG-fMRI. <i>NeuroImage</i> , 2017, 152, 1-11.	4.2	21
45	Conflict-sensitive neurons gate interocular suppression in human visual cortex. <i>Scientific Reports</i> , 2018, 8, 1239.	3.3	21
46	A Multiple-Label Guided Clustering Algorithm for Historical Document Dating and Localization. <i>IEEE Transactions on Image Processing</i> , 2016, 25, 5252-5265.	9.8	18
47	SSVEP signatures of binocular rivalry during simultaneous EEG and fMRI. <i>Journal of Neuroscience Methods</i> , 2015, 243, 53-62.	2.5	17
48	Layer-dependent multiplicative effects of spatial attention on contrast responses in human early visual cortex. <i>Progress in Neurobiology</i> , 2020, 207, 101897.	5.7	15
49	HUMAN STUDY: Preconscious attentional bias in cigarette smokers: a probe into awareness modulation on attentional bias. <i>Addiction Biology</i> , 2009, 14, 478-488.	2.6	14
50	Robust and Task-Independent Spatial Profile of the Visual Word Form Activation in Fusiform Cortex. <i>PLoS ONE</i> , 2011, 6, e26310.	2.5	14
51	The orthographic sensitivity to written Chinese in the occipital-temporal cortex. <i>Experimental Brain Research</i> , 2013, 227, 387-396.	1.5	14
52	Decomposing experience-driven attention: Opposite attentional effects of previously predictive cues. <i>Attention, Perception, and Psychophysics</i> , 2016, 78, 2185-2198.	1.3	14
53	Holes, objects, and the left hemisphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1103-1104.	7.1	13
54	Integrative analysis of in vivo recording with single-cell RNA-seq data reveals molecular properties of light-sensitive neurons in mouse V1. <i>Protein and Cell</i> , 2020, 11, 417-432.	11.0	13

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55	Interference between Conscious and Unconscious Facial Expression Information. PLoS ONE, 2014, 9, e105156.	2.5	12
56	Natural-scene-based Steady-state Visual Evoked Potentials Reveal Effects of Short-term Monocular Deprivation. Neuroscience, 2020, 435, 10-21.	2.3	12
57	Loss and enhancement of layer-selective signals in geniculostriate and corticotectal pathways of adult human amblyopia. Cell Reports, 2021, 37, 110117.	6.4	9
58	Adaptation to feedback representation of illusory orientation produced from flash grab effect. Nature Communications, 2020, 11, 3925.	12.8	8
59	Locating the cortical bottleneck for slow reading in peripheral vision. Journal of Vision, 2015, 15, 3.	0.3	7
60	Functional organization of the face-sensitive areas in human occipital-temporal cortex. NeuroImage, 2017, 157, 129-143.	4.2	7
61	Integrated SSFP for functional brain mapping at 7 T with reduced susceptibility artifact. Journal of Magnetic Resonance, 2017, 276, 22-30.	2.1	5
62	Stimulus rivalry and binocular rivalry share a common neural substrate. Journal of Vision, 2018, 18, 18.	0.3	5
63	Interaction Between Conscious and Unconscious Information-Processing of Faces and Words. Neuroscience Bulletin, 2021, 37, 1583-1594.	2.9	5
64	CT-Net: Cascade T-shape deep fusion networks for document binarization. Pattern Recognition, 2021, 118, 108010.	8.1	5
65	Multi-phase passband balanced SSFP fMRI with 50 ms sampling rate at 7 Tesla enables high precision in resolving 100 ms neuronal events. Magnetic Resonance Imaging, 2017, 35, 20-28.	1.8	4
66	Size-invariant but location-specific object-viewpoint adaptation in the absence of awareness. Cognition, 2019, 192, 104035.	2.2	4
67	Spatial tuning of face part representations within face-selective areas revealed by high-field fMRI. ELife, 2021, 10, .	6.0	4
68	Vernier But Not Grating Acuity Contributes to an Early Stage of Visual Word Processing. Neuroscience Bulletin, 2018, 34, 517-526.	2.9	3
69	A Novel Dichoptic Optokinetic Nystagmus Paradigm to Quantify Interocular Suppression in Monocular Amblyopia. , 2018, 59, 4775.		3
70	Early visual exposure primes future cross-modal specialization of the fusiform face area in tactile face processing in the blind. NeuroImage, 2022, 253, 119062.	4.2	2
71	Extracting the orientation of rotating objects without object identification: Object orientation induction. Journal of Vision, 2018, 18, 17.	0.3	1
72	Spatiotopic updating across saccades in the absence of awareness. Journal of Vision, 2021, 21, 7.	0.3	1

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73	Visual adaptation and 7T fMRI reveal facial identity processing in the human brain under shallow interocular suppression. <i>NeuroImage</i> , 2021, 244, 118622.	4.2	1
74	BOLD signal modulated with perception in the superficial layer of human V1 during binocular rivalry. <i>Journal of Vision</i> , 2018, 18, 955.	0.3	1
75	Transformation of spatial reference frame in the absence of awareness. <i>Journal of Vision</i> , 2017, 17, 1227.	0.3	0
76	The Modularity of Brain Dynamics: Insights from Bistable Perception. <i>Journal of Vision</i> , 2017, 17, 1213.	0.3	0
77	A combined fMRI-MEG investigation of face information processing in the occipito-temporal cortex. <i>Journal of Vision</i> , 2017, 17, 259.	0.3	0
78	Frequency and phase-specific direct interaction in visual cortex between visually evoked and tACS induced neuronal signals. <i>Journal of Vision</i> , 2017, 17, 591.	0.3	0
79	Processing of imminent collision information in human SC and Pulvinar. <i>Journal of Vision</i> , 2017, 17, 1149.	0.3	0
80	Transformation from retinotopic to spatiotopic reference frame in the absence of awareness. <i>Journal of Vision</i> , 2019, 19, 31.	0.3	0
81	Natural-scene-based SSVEPs revealed effects of short-term monocular deprivation. <i>Journal of Vision</i> , 2019, 19, 62d.	0.3	0
82	Layer-specific modulation of top-down spatial attention in human early visual cortex. <i>Journal of Vision</i> , 2019, 19, 169.	0.3	0
83	Underlying mechanisms of temporal dynamics in bistable perception. <i>Journal of Vision</i> , 2019, 19, 61c.	0.3	0
84	OUP accepted manuscript. <i>Cerebral Cortex</i> , 2022, , .	2.9	0