Sheng He

List of Publications by Year
in descending order

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	Global-Local Transformer for Brain Age Estimation. IEEE Transactions on Medical Imaging, 2022, 41, 213-224.	8.9	51
2	OUP accepted manuscript. Cerebral Cortex, 2022, , .	2.9	0
3	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
4	Spatiotopic updating across saccades in the absence of awareness. Journal of Vision, 2021, 21, 7.	0.3	1
5	Interaction Between Conscious and Unconscious Information-Processing of Faces and Words. Neuroscience Bulletin, 2021, 37, 1583-1594.	2.9	5
6	GR-RNN: Global-context residual recurrent neural networks for writer identification. Pattern Recognition, 2021, 117, 107975.	8.1	30
7	CT-Net: Cascade T-shape deep fusion networks for document binarization. Pattern Recognition, 2021, 118, 108010.	8.1	5
8	Artificial intelligence and machine learning assisted drug delivery for effective treatment of infectious diseases. Advanced Drug Delivery Reviews, 2021, 178, 113922.	13.7	34
9	Visual adaptation and 7T fMRI reveal facial identity processing in the human brain under shallow interocular suppression. NeuroImage, 2021, 244, 118622.	4.2	1
10	Spatial tuning of face part representations within face-selective areas revealed by high-field fMRI. ELife, 2021, 10, .	6.0	4
11	Loss and enhancement of layer-selective signals in geniculostriate and corticotectal pathways of adult human amblyopia. Cell Reports, 2021, 37, 110117.	6.4	9
12	Layer-dependent multiplicative effects of spatial attention on contrast responses in human early visual cortex. Progress in Neurobiology, 2020, 207, 101897.	5.7	15
13	Adaptation to feedback representation of illusory orientation produced from flash grab effect. Nature Communications, 2020, 11, 3925.	12.8	8
14	Single-Cell Analysis of Human Retina Identifies Evolutionarily Conserved and Species-Specific Mechanisms Controlling Development. Developmental Cell, 2020, 53, 473-491.e9.	7.0	170
15	Natural-scene-based Steady-state Visual Evoked Potentials Reveal Effects of Short-term Monocular Deprivation. Neuroscience, 2020, 435, 10-21.	2.3	12
16	One-vs-One classification for deep neural networks. Pattern Recognition, 2020, 108, 107528.	8.1	48
17	Integrative analysis of in vivo recording with single-cell RNA-seq data reveals molecular properties of light-sensitive neurons in mouse V1. Protein and Cell, 2020, 11, 417-432.	11.0	13
18	FragNet: Writer Identification Using Deep Fragment Networks. IEEE Transactions on Information Forensics and Security, 2020, 15, 3013-3022.	6.9	55

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19	The bottom-up and top-down processing of faces in the human occipitotemporal cortex. ELife, 2020, 9, .	6.0	27
20	Development of neural specialization for print: Evidence for predictive coding in visual word recognition. PLoS Biology, 2019, 17, e3000474.	5.6	31
21	Size-invariant but location-specific object-viewpoint adaptation in the absence of awareness. Cognition, 2019, 192, 104035.	2.2	4
22	Frequency of alpha oscillation predicts individual differences in perceptual stability during binocular rivalry. Human Brain Mapping, 2019, 40, 2422-2433.	3.6	27
23	DeepOtsu: Document enhancement and binarization using iterative deep learning. Pattern Recognition, 2019, 91, 379-390.	8.1	97
24	Slower and Less Variable Binocular Rivalry Rates in Patients With Bipolar Disorder, OCD, Major Depression, and Schizophrenia. Frontiers in Neuroscience, 2019, 13, 514.	2.8	23
25	Deep adaptive learning for writer identification based on single handwritten word images. Pattern Recognition, 2019, 88, 64-74.	8.1	58
26	Transformation from retinotopic to spatiotopic reference frame in the absence of awareness. Journal of Vision, 2019, 19, 31.	0.3	0
27	Natural-scene-based SSVEPs revealed effects of short-term monocular deprivation. Journal of Vision, 2019, 19, 62d.	0.3	0
28	Layer-specific modulation of top-down spatial attention in human early visual cortex. Journal of Vision, 2019, 19, 169.	0.3	0
29	Underlying mechanisms of temporal dynamics in bistable perception. Journal of Vision, 2019, 19, 61c.	0.3	0
30	Vernier But Not Grating Acuity Contributes to an Early Stage of Visual Word Processing. Neuroscience Bulletin, 2018, 34, 517-526.	2.9	3
31	Conflict-sensitive neurons gate interocular suppression in human visual cortex. Scientific Reports, 2018, 8, 1239.	3.3	21
32	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
33	Stimulus rivalry and binocular rivalry share a common neural substrate. Journal of Vision, 2018, 18, 18.	0.3	5
34	A Novel Dichoptic Optokinetic Nystagmus Paradigm to Quantify Interocular Suppression in Monocular Amblyopia. , 2018, 59, 4775.		3
35	Extracting the orientation of rotating objects without object identification: Object orientation induction. Journal of Vision, 2018, 18, 17.	0.3	1
36	The Independent and Shared Mechanisms of Intrinsic Brain Dynamics: Insights From Bistable Perception. Frontiers in Psychology, 2018, 9, 589.	2.1	32

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37	Localization and Functional Characterization of an Occipital Visual Word form Sensitive Area. Scientific Reports, 2018, 8, 6723.	3.3	25
38	BOLD signal modulated with perception in the superficial layer of human V1 during binocular rivalry. Journal of Vision, 2018, 18, 955.	0.3	1
39	Deactivation in the posterior mid-cingulate cortex reflects perceptual transitions during binocular rivalry: Evidence from simultaneous EEG-fMRI. NeuroImage, 2017, 152, 1-11.	4.2	21
40	Altered interhemispheric functional connectivity in patients with anisometropic and strabismic amblyopia: a resting-state fMRI study. Neuroradiology, 2017, 59, 517-524.	2.2	33
41	Monocular deprivation of Fourier phase information boosts the deprived eye's dominance during interocular competition but not interocular phase combination. Neuroscience, 2017, 352, 122-130.	2.3	56
42	Functional organization of the face-sensitive areas in human occipital-temporal cortex. NeuroImage, 2017, 157, 129-143.	4.2	7
43	Integrated SSFP for functional brain mapping at 7 T with reduced susceptibility artifact. Journal of Magnetic Resonance, 2017, 276, 22-30.	2.1	5
44	Beyond OCR: Multi-faceted understanding of handwritten document characteristics. Pattern Recognition, 2017, 63, 321-333.	8.1	33
45	Writer identification using curvature-free features. Pattern Recognition, 2017, 63, 451-464.	8.1	75
46	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
47	Transformation of spatial reference frame in the absence of awareness. Journal of Vision, 2017, 17, 1227.	0.3	0
48	The Modularity of Brain Dynamics: Insights from Bistable Perception. Journal of Vision, 2017, 17, 1213.	0.3	0
49	A combined fMRI-MEG investigation of face information processing in the occipito-temporal cortex. Journal of Vision, 2017, 17, 259.	0.3	0
50	Frequency and phase-specific direct interaction in visual cortex between visually evoked and tACS induced neuronal signals. Journal of Vision, 2017, 17, 591.	0.3	0
51	Processing of imminent collision information in human SC and Pulvinar. Journal of Vision, 2017, 17, 1149.	0.3	0
52	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
53	Image-based historical manuscript dating using contour and stroke fragments. Pattern Recognition, 2016, 58, 159-171.	8.1	35
54	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

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55	Historical manuscript dating based on temporal pattern codebook. Computer Vision and Image Understanding, 2016, 152, 167-175.	4.7	24
56	A Multiple-Label Guided Clustering Algorithm for Historical Document Dating and Localization. IEEE Transactions on Image Processing, 2016, 25, 5252-5265.	9.8	18
57	Decomposing experience-driven attention: Opposite attentional effects of previously predictive cues. Attention, Perception, and Psychophysics, 2016, 78, 2185-2198.	1.3	14
58	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
59	Locating the cortical bottleneck for slow reading in peripheral vision. Journal of Vision, 2015, 15, 3.	0.3	7
60	SSVEP signatures of binocular rivalry during simultaneous EEG and fMRI. Journal of Neuroscience Methods, 2015, 243, 53-62.	2.5	17
61	Layer-specific response properties of the human lateral geniculate nucleus and superior colliculus. NeuroImage, 2015, 111, 159-166.	4.2	44
62	Topology-defined units in numerosity perception. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5647-55.	7.1	72
63	Interference between Conscious and Unconscious Facial Expression Information. PLoS ONE, 2014, 9, e105156.	2.5	12
64	Chemosensory Communication of Gender through Two Human Steroids in a Sexually Dimorphic Manner. Current Biology, 2014, 24, 1091-1095.	3.9	54
65	The orthographic sensitivity to written Chinese in the occipital-temporal cortex. Experimental Brain Research, 2013, 227, 387-396.	1.5	14
66	Perceptual Grouping without Awareness: Superiority of Kanizsa Triangle in Breaking Interocular Suppression. PLoS ONE, 2012, 7, e40106.	2.5	53
67	Binocular Rivalry Requires Visual Attention. Neuron, 2011, 71, 362-369.	8.1	224
68	Genes contribute to the switching dynamics of bistable perception. Journal of Vision, 2011, 11, 8-8.	0.3	44
69	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
70	Robust and Task-Independent Spatial Profile of the Visual Word Form Activation in Fusiform Cortex. PLoS ONE, 2011, 6, e26310.	2.5	14
71	HUMAN STUDY: Preconscious attentional bias in cigarette smokers: a probe into awareness modulation on attentional bias. Addiction Biology, 2009, 14, 478-488.	2.6	14
72	Dynamics of processing invisible faces in the brain: Automatic neural encoding of facial expression information. NeuroImage, 2009, 44, 1171-1177.	4.2	97

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73	Holes, objects, and the left hemisphere. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1103-1104.	7.1	13
74	Transfer of the face viewpoint aftereffect from adaptation to different and inverted faces. Journal of Vision, 2007, 7, 6.	0.3	39
75	Processing of Invisible Stimuli: Advantage of Upright Faces and Recognizable Words in Overcoming Interocular Suppression. Psychological Science, 2007, 18, 349-355.	3.3	281
76	A gender- and sexual orientation-dependent spatial attentional effect of invisible images. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17048-17052.	7.1	307
77	Cortical Responses to Invisible Faces: Dissociating Subsystems for Facial-Information Processing. Current Biology, 2006, 16, 2023-2029.	3.9	251
78	Orientation-Tuned fMRI Adaptation in Human Visual Cortex. Journal of Neurophysiology, 2005, 94, 4188-4195.	1.8	170
79	Cortical responses to invisible objects in the human dorsal and ventral pathways. Nature Neuroscience, 2005, 8, 1380-1385.	14.8	364
80	Viewer-Centered Object Representation in the Human Visual System Revealed by Viewpoint Aftereffects. Neuron, 2005, 45, 793-800.	8.1	156
81	Temporal characteristics of binocular rivalry: visual field asymmetries. Vision Research, 2003, 43, 2207-2212.	1.4	21
82	Orientation-selective adaptation and tilt after-effect from invisible patterns. Nature, 2001, 411, 473-476.	27.8	134
83	Visible binocular beats from invisible monocular stimuli during binocular rivalry. Current Biology, 2000, 10, 1055-1058.	3.9	41
84	Attentional resolution and the locus of visual awareness. Nature, 1996, 383, 334-337.	27.8	981