

Hannah E Smithson

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,184
citations

567144

15
h-index

395590

33
g-index

64
all docs

64
docs citations

64
times ranked

924
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensory, computational and cognitive components of human colour constancy. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 1329-1346.	1.8	179
2	Vision science and adaptive optics, the state of the field. <i>Vision Research</i> , 2017, 132, 3-33.	0.7	115
3	Specificity of Cone Inputs to Macaque Retinal Ganglion Cells. <i>Journal of Neurophysiology</i> , 2006, 95, 837-849.	0.9	109
4	Modulation of the face- and body-selective visual regions by the motion and emotion of point-light face and body stimuli. <i>NeuroImage</i> , 2012, 59, 1700-1712.	2.1	88
5	Photostimulator allowing independent control of rods and the three cone types. <i>Visual Neuroscience</i> , 2004, 21, 263-267.	0.5	79
6	Colour constancy in context: Roles for local adaptation and levels of reference. <i>Journal of Vision</i> , 2004, 4, 3.	0.1	73
7	Is the S-opponent chromatic sub-system sluggish?. <i>Vision Research</i> , 2004, 44, 2919-2929.	0.7	57
8	Human cone light adaptation: From behavioral measurements to molecular mechanisms. <i>Journal of Vision</i> , 2006, 6, 5-5.	0.1	56
9	Do magnocellular and parvocellular ganglion cells avoid short-wavelength cone input?. <i>Visual Neuroscience</i> , 2006, 23, 441-446.	0.5	28
10	Do masks terminate the icon?. <i>Quarterly Journal of Experimental Psychology</i> , 2006, 59, 150-160.	0.6	27
11	S-cone psychophysics. <i>Visual Neuroscience</i> , 2014, 31, 211-225.	0.5	27
12	Beyond scattering and absorption: Perceptual unmixing of translucent liquids. <i>Journal of Vision</i> , 2018, 18, 18.	0.1	24
13	Demonstrating a multi-primary high dynamic range display system for vision experiments. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, A271.	0.8	22
14	Low levels of specularly support operational color constancy, particularly when surface and illumination geometry can be inferred. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, A306.	0.8	21
15	A three-dimensional color space from the 13th century. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, A346.	0.8	20
16	Low level visual features support robust material perception in the judgement of metallicity. <i>Scientific Reports</i> , 2021, 11, 16396.	1.6	18
17	The loss of the PDE6 deactivating enzyme, RGS9, results in precocious light adaptation at low light levels. <i>Journal of Vision</i> , 2008, 8, 10.	0.1	16
18	Is there brief temporal buffering of successive visual inputs?. <i>Quarterly Journal of Experimental Psychology</i> , 2011, 64, 767-791.	0.6	16

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19	Slow updating of the achromatic point after a change in illumination. <i>Journal of Vision</i> , 2012, 12, 19-19.	0.1	15
20	Hyperspectral environmental illumination maps: characterizing directional spectral variation in natural environments. <i>Optics Express</i> , 2019, 27, 32277.	1.7	15
21	Residual cone vision without \hat{A} -transducin. <i>Journal of Vision</i> , 2007, 7, 8-8.	0.1	14
22	Compatible and incompatible representations in visual sensory storage. <i>Journal of Vision</i> , 2012, 12, 1-1.	0.1	13
23	Context-dependent judgments of color that might allow color constancy in scenes with multiple regions of illumination. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, A247.	0.8	13
24	Color-coordinate system from a 13th-century account of rainbows. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, A341.	0.8	12
25	Latency characteristics of the short-wavelength-sensitive cones and their associated pathways. <i>Journal of Vision</i> , 2009, 9, 5-5.	0.1	11
26	Not all aberrations are equal: Reading impairment depends on aberration type and magnitude. <i>Journal of Vision</i> , 2011, 11, 20-20.	0.1	11
27	Distinct Contributions to Facial Emotion Perception of Foveated versus Nonfoveated Facial Features. <i>Emotion Review</i> , 2013, 5, 30-35.	2.1	10
28	Discrimination of spectral reflectance under environmental illumination. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018, 35, B244.	0.8	10
29	Accounting for the phase, spatial frequency and orientation demands of the task improves metrics based on the visual Strehl ratio. <i>Vision Research</i> , 2013, 90, 57-67.	0.7	8
30	A medieval multiverse?: Mathematical modelling of the thirteenth century universe of Robert Grosseteste. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20140025.	1.0	8
31	Motion of glossy objects does not promote separation of lighting and surface colour. <i>Royal Society Open Science</i> , 2017, 4, 171290.	1.1	8
32	The effect of notched noise on flicker detection and discrimination. <i>Journal of Vision</i> , 2009, 9, 21-21.	0.1	7
33	Critical band masking reveals the effects of optical distortions on the channel mediating letter identification. <i>Frontiers in Psychology</i> , 2014, 5, 1060.	1.1	7
34	Visualization of acoustic waves in air and subsequent audio recovery with a high-speed schlieren imaging system: Experimental and computational development of a schlieren microphone. <i>Optics and Lasers in Engineering</i> , 2018, 107, 182-193.	2.0	7
35	Compact, modular and in-plane AOSLO for high-resolution retinal imaging. <i>Biomedical Optics Express</i> , 2018, 9, 4275.	1.5	6
36	Transitions between color categories mapped with a reverse Stroop task. <i>Visual Neuroscience</i> , 2006, 23, 453-460.	0.5	5

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37	Different aberrations raise contrast thresholds for single-letter identification in line with their effect on cross-correlation-based confusability. <i>Journal of Vision</i> , 2013, 13, 12-12.	0.1	4
38	Bow-shaped caustics from conical prisms: a 13th-century account of rainbow formation from Robert Grosseteste's <i>De iride</i> . <i>Applied Optics</i> , 2017, 56, G197.	0.9	4
39	Hue shifts produced by temporal asymmetries in chromatic signals. <i>Journal of Vision</i> , 2017, 17, 2.	0.1	4
40	Emulated retinal image capture (ERICA) to test, train and validate processing of retinal images. <i>Scientific Reports</i> , 2021, 11, 11225.	1.6	3
41	History: A medieval multiverse. <i>Nature</i> , 2014, 507, 161-163.	13.7	2
42	All the colours of the rainbow. <i>Nature Physics</i> , 2014, 10, 540-542.	6.5	2
43	Self-organising coordinate transformation with peaked and monotonic gain modulation in the primate dorsal visual pathway. <i>PLoS ONE</i> , 2018, 13, e0207961.	1.1	2
44	Are hue and saturation carried in different neural channels?. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018, 35, B299.	0.8	2
45	Breaking illuminant metamerism using directional spectral variation in natural environments: dichromats might benefit more than trichromats. <i>Journal of Vision</i> , 2019, 19, 9.	0.1	2
46	Listening between the lines: medieval and modern science. <i>Palgrave Communications</i> , 2016, 2, .	4.7	1
47	A Modeling Study of the Emergence of Eye Position Gain Fields Modulating the Responses of Visual Neurons in the Brain. <i>Frontiers in Neural Circuits</i> , 2020, 14, 30.	1.4	1
48	Perceptual Organization of Colour. , 0, , .		1
49	Recording fixational eye movements with a new AOSLO: simulation, measurement and evaluation. <i>Journal of Vision</i> , 2017, 17, 34.	0.1	1
50	Guest Editors' Foreword: Proceedings of the 19th Biennial Symposium of the International Colour Vision Society. Held July 2007 Belém, Brazil. <i>Visual Neuroscience</i> , 2008, 25, 229-230.	0.5	0
51	Guest Editorial: Proceedings of the 20th Biennial Symposium of the International Colour Vision Society July 2009, Braga, Portugal. <i>Ophthalmic and Physiological Optics</i> , 2010, 30, 419-420.	1.0	0
52	All the Colours of the Rainbow: Robert Grosseteste's Three-Dimensional Colour Space. , 2016, , 59-84.		0
53	Delayed S-cone sensitivity losses following the onset of intense yellow backgrounds linked to the lifetime of a photobleaching product?. <i>Journal of Vision</i> , 2018, 18, 12.	0.1	0
54	Raw high-speed schlieren footage of acoustic waves in air for subsequent computational analysis and audio recovery. <i>Data in Brief</i> , 2018, 19, 1647-1649.	0.5	0

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55	Hand-Foot Coupling: An Advantage for Crossed Legs. Perception, 2019, 48, 356-359.	0.5	0
56	Hyperspectral characterisation of natural illumination in woodland and forest environments. , 2021, , .		0
57	Modeling perceptual discrimination of surface color using image chromatic statistics and convolutional neural networks. Journal of Vision, 2021, 21, 2742.	0.1	0
58	When the brightest is not the best: Illuminant estimation based on highlight geometry. Journal of Vision, 2017, 17, 139.	0.1	0
59	Simultaneous Optimisation of Confocal and Non-confocal Images in an AOSLO with a Reconfigurable Aperture Pattern. Communications in Computer and Information Science, 2020, , 410-419.	0.4	0