Hannah E Smithson

List of Publications by Year
in descending order

59	1,184	567144 15	395590 33
papers	citations	h-index	g-index

64	64	64	924
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Emulated retinal image capture (ERICA) to test, train and validate processing of retinal images. Scientific Reports, 2021, 11, 11225.	1.6	3
2	Low level visual features support robust material perception in the judgement of metallicity. Scientific Reports, 2021, 11, 16396.	1.6	18
3	Hyperspectral characterisation of natural illumination in woodland and forest environments. , 2021, , .		0
4	Modeling perceptual discrimination of surface color using image chromatic statistics and convolutional neural networks. Journal of Vision, 2021, 21, 2742.	0.1	0
5	A Modeling Study of the Emergence of Eye Position Gain Fields Modulating the Responses of Visual Neurons in the Brain. Frontiers in Neural Circuits, 2020, 14, 30.	1.4	1
6	Demonstrating a multi-primary high dynamic range display system for vision experiments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, A271.	0.8	22
7	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
8	Hand-Foot Coupling: An Advantage for Crossed Legs. Perception, 2019, 48, 356-359.	0.5	0
9	Hyperspectral environmental illumination maps: characterizing directional spectral variation in natural environments. Optics Express, 2019, 27, 32277.	1.7	15
10	Breaking illuminant metamerism using directional spectral variation in natural environments: dichromats might benefit more than trichromats. Journal of Vision, 2019, 19, 9.	0.1	2
11	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. Optics and Lasers in Engineering, 2018, 107, 182-193.	2.0	7
12	Self-organising coordinate transformation with peaked and monotonic gain modulation in the primate dorsal visual pathway. PLoS ONE, 2018, 13, e0207961.	1.1	2
13	Delayed S-cone sensitivity losses following the onset of intense yellow backgrounds linked to the lifetime of a photobleaching product?. Journal of Vision, 2018, 18, 12.	0.1	0
14	Beyond scattering and absorption: Perceptual unmixing of translucent liquids. Journal of Vision, 2018, 18, 18.	0.1	24
15	Raw high-speed schlieren footage of acoustic waves in air for subsequent computational analysis and audio recovery. Data in Brief, 2018, 19, 1647-1649.	0.5	0
16	Discrimination of spectral reflectance under environmental illumination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, B244.	0.8	10
17	Are hue and saturation carried in different neural channels?. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, B299.	0.8	2
18	Compact, modular and in-plane AOSLO for high-resolution retinal imaging. Biomedical Optics Express, 2018, 9, 4275.	1.5	6

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19	Vision science and adaptive optics, the state of the field. Vision Research, 2017, 132, 3-33.	0.7	115
20	Motion of glossy objects does not promote separation of lighting and surface colour. Royal Society Open Science, 2017, 4, 171290.	1.1	8
21	Bow-shaped caustics from conical prisms: a 13th-century account of rainbow formation from Robert Grosseteste's De iride. Applied Optics, 2017, 56, G197.	0.9	4
22	Hue shifts produced by temporal asymmetries in chromatic signals. Journal of Vision, 2017, 17, 2.	0.1	4
23	Recording fixational eye movements with a new AOSLO: simulation, measurement and evaluation. Journal of Vision, 2017, 17, 34.	0.1	1
24	When the brightest is not the best: Illuminant estimation based on highlight geometry. Journal of Vision, 2017, 17, 139.	0.1	0
25	Listening between the lines: medieval and modern science. Palgrave Communications, 2016, 2, .	4.7	1
26	All the Colours of the Rainbow: Robert Grosseteste's Three-Dimensional Colour Space. , 2016, , 59-84.		0
27	Low levels of specularity support operational color constancy, particularly when surface and illumination geometry can be inferred. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, A306.	0.8	21
28	Critical band masking reveals the effects of optical distortions on the channel mediating letter identification. Frontiers in Psychology, 2014, 5, 1060.	1.1	7
29	History: A medieval multiverse. Nature, 2014, 507, 161-163.	13.7	2
30	Color-coordinate system from a 13th-century account of rainbows. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, A341.	0.8	12
31	S-cone psychophysics. Visual Neuroscience, 2014, 31, 211-225.	0.5	27
32	A medieval multiverse?: Mathematical modelling of the thirteenth century universe of Robert Grosseteste. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140025.	1.0	8
33	All the colours of the rainbow. Nature Physics, 2014, 10, 540-542.	6.5	2
34	Accounting for the phase, spatial frequency and orientation demands of the task improves metrics based on the visual Strehl ratio. Vision Research, 2013, 90, 57-67.	0.7	8
35	Distinct Contributions to Facial Emotion Perception of Foveated versus Nonfoveated Facial Features. Emotion Review, 2013, 5, 30-35.	2.1	10
36	Different aberrations raise contrast thresholds for single-letter identification in line with their effect on cross-correlation-based confusability. Journal of Vision, 2013, 13, 12-12.	0.1	4

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37	Compatible and incompatible representations in visual sensory storage. Journal of Vision, 2012, 12, 1-1.	0.1	13
38	Context-dependent judgments of color that might allow color constancy in scenes with multiple regions of illumination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, A247.	0.8	13
39	Modulation of the face- and body-selective visual regions by the motion and emotion of point-light face and body stimuli. NeuroImage, 2012, 59, 1700-1712.	2.1	88
40	A three-dimensional color space from the 13th century. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, A346.	0.8	20
41	Slow updating of the achromatic point after a change in illumination. Journal of Vision, 2012, 12, 19-19.	0.1	15
42	Not all aberrations are equal: Reading impairment depends on aberration type and magnitude. Journal of Vision, 2011, 11, 20-20.	0.1	11
43	Is there brief temporal buffering of successive visual inputs?. Quarterly Journal of Experimental Psychology, 2011, 64, 767-791.	0.6	16
44	Guest Editorial: Proceedings of the 20th Biennial Symposium of the International Colour Vision Society July 2009, Braga, Portugal. Ophthalmic and Physiological Optics, 2010, 30, 419-420.	1.0	0
45	The effect of notched noise on flicker detection and discrimination. Journal of Vision, 2009, 9, 21-21.	0.1	7
46	Latency characteristics of the short-wavelength-sensitive cones and their associated pathways. Journal of Vision, 2009, 9, 5-5.	0.1	11
47	Guest Editors' Foreword: Proceedings of the 19th Biennial Symposium of the International Colour Vision Society. Held July 2007 BelÃ©m, Brazil. Visual Neuroscience, 2008, 25, 229-230.	0.5	0
48	The loss of the PDE6 deactivating enzyme, RGS9, results in precocious light adaptation at low light levels. Journal of Vision, 2008, 8, 10.	0.1	16
49	Residual cone vision without Â-transducin. Journal of Vision, 2007, 7, 8-8.	0.1	14
50	Do masks terminate the icon?. Quarterly Journal of Experimental Psychology, 2006, 59, 150-160.	0.6	27
51	Specificity of Cone Inputs to Macaque Retinal Ganglion Cells. Journal of Neurophysiology, 2006, 95, 837-849.	0.9	109
52	Human cone light adaptation: From behavioral measurements to molecular mechanisms. Journal of Vision, 2006, 6, 5-5.	0.1	56
53	Transitions between color categories mapped with a reverse Stroop task. Visual Neuroscience, 2006, 23, 453-460.	0.5	5
54	Do magnocellular and parvocellular ganglion cells avoid short-wavelength cone input?. Visual Neuroscience, 2006, 23, 441-446.	0.5	28

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55	Sensory, computational and cognitive components of human colour constancy. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 1329-1346.	1.8	179
56	Colour constancy in context: Roles for local adaptation and levels of reference. Journal of Vision, 2004, 4, 3.	0.1	73
57	Photostimulator allowing independent control of rods and the three cone types. Visual Neuroscience, 2004, 21, 263-267.	0.5	79
58	Is the S-opponent chromatic sub-system sluggish?. Vision Research, 2004, 44, 2919-2929.	0.7	57
59	Perceptual Organization of Colour. , 0, , .		1