

# Kevin Houser

## List of Publications by Year in Descending Order

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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.

56  
papers

1,403  
citations

22  
h-index

36  
g-index

96  
ext. papers

1,662  
ext. citations

3.2  
avg, IF

5.35  
L-index

#	Paper	IF	Citations
56	A method and tool to determine the colorimetric and photobiological properties of light transmitted through glass and other optical materials. <i>Building and Environment</i> , <b>2022</b> , 215, 108957	6.5	0
55	Human-centric lighting: Myth, magic or metaphor?. <i>Lighting Research and Technology</i> , <b>2021</b> , 53, 97-118	2	27
54	Human-Centric Lighting: Foundational Considerations and a Five-Step Design Process. <i>Frontiers in Neurology</i> , <b>2021</b> , 12, 630553	4	20
53	A Vector Field Color Rendition Model for Characterizing Color Shifts and Metameric Mismatch. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2020</b> , 16, 99-114	3.4	6
52	Judging the Scientific Quality of Applied Lighting Research. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2019</b> , 15, 97-114	3.4	21
51	A new measure of colour discrimination for LEDs and other light sources. <i>Lighting Research and Technology</i> , <b>2019</b> , 51, 5-23	2	15
50	Adjustable correlated colour temperature for surgical lighting. <i>Lighting Research and Technology</i> , <b>2019</b> , 51, 280-290	2	3
49	Models of colour quality over a wide range of spectral power distributions. <i>Lighting Research and Technology</i> , <b>2019</b> , 51, 331-352	2	22
48	Chroma Shift and Gamut Shape: Going Beyond Average Color Fidelity and Gamut Area. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2018</b> , 14, 149-165	3.4	15
47	Colour gamut size and shape influence colour preference. <i>Lighting Research and Technology</i> , <b>2017</b> , 49, 992-1014	2	38
46	Human perceptions of colour rendition vary with average fidelity, average gamut, and gamut shape. <i>Lighting Research and Technology</i> , <b>2017</b> , 49, 966-991	2	45
45	Systematic Changes in Gamut Size Affect Color Preference. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2017</b> , 13, 23-32	3.4	32
44	What Is the Cause of Apparent Preference for Sources with Chromaticity below the Blackbody Locus?. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2016</b> , 12, 95-99	3.4	28
43	Tutorial: Color Rendering and Its Applications in Lighting. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2016</b> , 12, 7-26	3.4	49
42	Lamp spectrum and spatial brightness at photopic levels: A basis for developing a metric. <i>Lighting Research and Technology</i> , <b>2015</b> , 47, 80-102	2	10
41	Development of the IES method for evaluating the color rendition of light sources. <i>Optics Express</i> , <b>2015</b> , 23, 15888-906	3.2	137
40	Perceptual responses to LED illumination with colour rendering indices of 85 and 97. <i>Lighting Research and Technology</i> , <b>2015</b> , 47, 810-827	2	34

39	Saving energy in an office environment: A serious game intervention. <i>Energy and Buildings</i> , <b>2014</b> , 74, 43-52	6.9	87
38	Color Preference under LEDs with Diminished Yellow Emission. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2014</b> , 10, 119-131	3.4	68
37	Field study of office worker responses to fluorescent lighting of different CCT and lumen output. <i>Journal of Environmental Psychology</i> , <b>2014</b> , 39, 62-76	6.6	37
36	Whiteness Perception under LED Illumination. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2014</b> , 10, 165-180	3.4	31
35	Review of measures for light-source color rendition and considerations for a two-measure system for characterizing color rendition. <i>Optics Express</i> , <b>2013</b> , 21, 10393-411	3.2	88
34	Whiteness metric for light sources of arbitrary color temperatures: proposal and application to light-emitting-diodes. <i>Optics Express</i> , <b>2013</b> , 21, 16702-15	3.2	13
33	Using Forced Choice Discrimination to Measure the Perceptual Response to Light of Different Characteristics. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2013</b> , 9, 245-259	3.4	8
32	Office Worker Response to Fluorescent Lamps of Different CCT and Lumen Output <b>2013</b> ,		1
31	Color discrimination capability under highly structured spectra. <i>Color Research and Application</i> , <b>2012</b> , 37, 441-449	1.2	33
30	Spatial Brightness Perception of Trichromatic Stimuli. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2012</b> , 9, 89-108	3.4	19
29	Light therapy for seniors in long term care. <i>Journal of the American Medical Directors Association</i> , <b>2012</b> , 13, 100-2	4.7	35
28	Status of Solid-State Lighting Based on Entries to the 2010 US DOE Next Generation Luminaire Competition. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2012</b> , 8, 237-259	3.4	20
27	Illuminance Uniformity of Outdoor Sports Lighting. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2011</b> , 7, 221-235	3.4	8
26	A Procedure for Determining Target Illuminances. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2011</b> , 7, 145-158	3.4	13
25	The authorsTreply Sir:. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2010</b> , 7, 12-19	3.4	
24	Light Loss Factors for Sports Lighting. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2010</b> , 6, 183-201	3.4	3
23	Research Methods to Avoid Bias in Categorical Ratings of Brightness. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2009</b> , 5, 167-181	3.4	21
22	A Test of the S/P Ratio as a Correlate for Brightness Perception using Rapid-Sequential and Side-by-Side Experimental Protocols. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2009</b> , 6, 119-137	3.4	20

21	Large-field color matching functions. <i>Color Research and Application</i> , <b>2006</b> , 31, 18-29	1.2	14
20	Higher Color Temperature Lamps May Not Appear Brighter. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2006</b> , 3, 69-81	3-4	29
19	LEDs for General Illumination: The State of the Science. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2006</b> , 3, 121-142	3-4	28
18	Tuning the Fluorescent Spectrum for the Trichromatic Visual Response: A Pilot Study. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2005</b> , 1, 7-23	3-4	42
17	On the Relationship between Object Modeling and the Subjective Response. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2005</b> , 2, 13-28	3-4	4
16	The UNL trichromatic colorimeter. <i>Color Research and Application</i> , <b>2005</b> , 30, 209-220	1.2	1
15	Algebraic Expressions of the CIE Standard Observers and Stockman Cone Fundamentals. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2005</b> , 1, 81-90	3-4	
14	Tuning the fluorescent spectrum for the trichromatic visual response: A pilot study. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , <b>2004</b> , 01, 7-24	3-4	9
13	A review of colour rendering indices and their application to commercial light sources. <i>Lighting Research and Technology</i> , <b>2004</b> , 36, 183-197	2	99
12	Algebraic Expression of the V( $\lambda$ ) Function. <i>Leukos</i> , <b>2004</b> , 33, 30-33		2
11	Visually matching daylight fluorescent lamplight with two primary sets. <i>Color Research and Application</i> , <b>2004</b> , 29, 428-437	1.2	17
10	Measuring the subjective response to interior lighting: paired comparisons and semantic differential scaling. <i>Lighting Research and Technology</i> , <b>2003</b> , 35, 183-195	2	26
9	Spectral and electrical performance of screw-based dimmable compact fluorescent lamps. <i>Lighting Research and Technology</i> , <b>2003</b> , 35, 331-342	2	2
8	A versatile spectral lamp measurement system. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2003</b> , 52, 832-838	4.6	1
7	The subjective response to linear fluorescent direct/indirect lighting systems. <i>Lighting Research and Technology</i> , <b>2002</b> , 34, 243-260	2	41
6	The IQCam Digital Image Photometer System: Principles of Operation and Comparative Performance. <i>Leukos</i> , <b>1999</b> , 28, 182-200		3
5	Toward the Accuracy of Lighting Simulations in Physically Based Computer Graphics Software. <i>Leukos</i> , <b>1999</b> , 28, 117-129		10
4	Recommended methods for conducting human factors experiments on the subjective evaluation of colour rendition. <i>Lighting Research and Technology</i> , 147715352110198	2	2

3	A Review of Human Physiological Responses to Light: Implications for the Development of Integrative Lighting Solutions. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> ,1-28 <sup>3,4</sup>	23
2	A Test of the S/P Ratio as a Correlate for Brightness Perception using Rapid-Sequential and Side-by-Side Experimental Protocols	2
1	Improved Method for Evaluating and Specifying the Chromaticity of Light Sources. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> ,1-18	3-4