Kevin Smet

List of Publications by Year
in descending order

66 papers	1,476 citations	361045 20 h-index	329751 37 g-index
67 all docs	67 docs citations	67 times ranked	467 citing authors

#	Article	IF	Citations
1	Development of the IES method for evaluating the color rendition of light sources. Optics Express, 2015, 23, 15888.	1.7	184
2	Correlation between color quality metric predictions and visual appreciation of light sources. Optics Express, 2011, 19, 8151.	1.7	105
3	Memory colours and colour quality evaluation of conventional and solid-state lamps. Optics Express, 2010, 18, 26229.	1.7	104
4	CRI2012: A proposal for updating the CIE colour rendering index. Lighting Research and Technology, 2013, 45, 689-709.	1.2	94
5	Colour appearance rating of familiar real objects. Color Research and Application, 2011, 36, 192-200.	0.8	89
6	A memory colour quality metric for white light sources. Energy and Buildings, 2012, 49, 216-225.	3.1	69
7	Tutorial: Color Rendering and Its Applications in Lighting. LEUKOS - Journal of Illuminating Engineering Society of North America, 2016, 12, 7-26.	1.5	68
8	Linear LED tubes versus fluorescent lamps: An evaluation. Energy and Buildings, 2012, 49, 429-436.	3.1	58
9	Chromaticity of unique white in object mode. Optics Express, 2014, 22, 25830.	1.7	48
10	Study of chromatic adaptation using memory color matches, Part I: neutral illuminants. Optics Express, 2017, 25, 7732.	1.7	43
11	Why Color Space Uniformity and Sample Set Spectral Uniformity Are Essential for Color Rendering Measures. LEUKOS - Journal of Illuminating Engineering Society of North America, 2016, 12, 39-50.	1.5	40
12	Study of chromatic adaptation using memory color matches, Part II: colored illuminants. Optics Express, 2017, 25, 8350.	1.7	39
13	Impact of Illumination Correlated Color Temperature, Background Lightness, and Painting Color Content on Color Appearance and Appreciation of Paintings. LEUKOS - Journal of Illuminating Engineering Society of North America, 2020, 16, 25-44.	1.5	38
14	Experimental driven modelling of the color appearance of unrelated self-luminous stimuli: CAM15u. Optics Express, 2015, 23, 12045.	1.7	29
15	Cross-cultural variation of memory colors of familiar objects. Optics Express, 2014, 22, 32308.	1.7	28
16	Chromaticity of unique white in illumination mode. Optics Express, 2015, 23, 12488.	1.7	28
17	Memory and preferred colours and the colour rendition of white light sources. Lighting Research and Technology, 2016, 48, 393-411.	1.2	28
18	Tutorial: The LuxPy Python Toolbox for Lighting and Color Science. LEUKOS - Journal of Illuminating Engineering Society of North America, 2020, 16, 179-201.	1.5	28

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19	Brightness perception of unrelated self-luminous colors. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1248.	0.8	25
20	Optimization of colour quality of LED lighting with reference to memory colours. Lighting Research and Technology, 2012, 44, 7-15.	1.2	24
21	A simple principled approach for modeling and understanding uniform color metrics. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, A319.	0.8	23
22	LRT symposium â€˜Better metrics for better lightingâ€™ â€“ a summary. Lighting Research and Technology, 2014, 46, 619-636.	1.2	21
23	Optimal colour quality of LED clusters based on memory colours. Optics Express, 2011, 19, 6903.	1.7	18
24	Toward a Replacement of the CIE Color Rendering Index for White Light Sources. LEUKOS - Journal of Illuminating Engineering Society of North America, 2016, 12, 61-69.	1.5	18
25	Two Neutral White Illumination Loci Based on Unique White Rating and Degree of Chromatic Adaptation. LEUKOS - Journal of Illuminating Engineering Society of North America, 2018, 14, 55-67.	1.5	17
26	Color appearance model for self-luminous stimuli. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 2000.	0.8	17
27	Methods for Assessing Quantity and Quality of Illumination. Annual Review of Vision Science, 2019, 5, 479-502.	2.3	14
28	Predicting the brightness of unrelated self-luminous stimuli. Optics Express, 2014, 22, 16298.	1.7	13
29	Effect of adapting field size on chromatic adaptation. Optics Express, 2020, 28, 17266.	1.7	13
30	Impact of cross-regional differences on color rendition evaluation of white light sources. Optics Express, 2015, 23, 30216.	1.7	12
31	Impact of Color-Matching Primaries on Observer Matching: Part I â€“ Accuracy. LEUKOS - Journal of Illuminating Engineering Society of North America, 2022, 18, 104-126.	1.5	12
32	Brightness prediction of different sized unrelated self-luminous stimuli. Optics Express, 2015, 23, 13455.	1.7	11
33	Improved and Robust Spectral Reflectance Estimation. LEUKOS - Journal of Illuminating Engineering Society of North America, 2021, 17, 359-379.	1.5	10
34	Tuning color and saving energy with spatially variable laser illumination. Optics Express, 2019, 27, 27136.	1.7	10
35	Analysis of painted artworks' color appearance under various lighting settings. , 2017, , .		9
36	A Vector Field Color Rendition Model for Characterizing Color Shifts and Metameric Mismatch. LEUKOS - Journal of Illuminating Engineering Society of North America, 2020, 16, 99-114.	1.5	9

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37	Brightness Model for Neutral Self-Luminous Stimuli and Backgrounds. LEUKOS - Journal of Illuminating Engineering Society of North America, 2018, 14, 231-244.	1.5	8
38	Safety perception of stairs with integrated lighting. Building and Environment, 2019, 166, 106389.	3.0	8
39	Impact of the starting point chromaticity on memory color matching accuracy. Optics Express, 2019, 27, 35308.	1.7	8
40	Color appearance model incorporating contrast adaptationâ€"Implications for individual differences in color vision. Color Research and Application, 2021, 46, 759-773.	0.8	6
41	Exploring the applicability of the CAM18sl brightness prediction. Optics Express, 2019, 27, 14423.	1.7	6
42	Using smooth metamers to estimate color appearance metrics for diverse colorâ€normal observers. Color Research and Application, 2022, 47, 555-564.	0.8	5
43	THE INFLUENCE OF ADAPTING FIELD SIZE ON DEGREE OF CHROMATIC ADAPTATION. , 2018, , .		4
44	Some concerns regarding the CAT16 chromatic adaptation transform. Color Research and Application, 2020, 45, 172-177.	0.8	3
45	Relationship between pupillary size, brightness, and photoreceptor responses for unrelated selfâ€luminous stimuli at low photopic light levels. Color Research and Application, 2020, 45, 977-991.	0.8	3
46	Impact of Color Matching Primaries on Observer Matching: Part II â€“ Observer Variability. LEUKOS - Journal of Illuminating Engineering Society of North America, 0, , 1-18.	1.5	3
47	Predictive performance of the standard and the modified von Kries chromatic adaptation transforms. Optics Express, 2022, 30, 11872.	1.7	3
48	Road Marking Contrast Threshold Revisited. LEUKOS - Journal of Illuminating Engineering Society of North America, 0, , 1-20.	1.5	3
49	Visualization of Lighting Quality and Object Appearance When Using Multichannel Light Sources. LEUKOS - Journal of Illuminating Engineering Society of North America, 2022, 18, 232-245.	1.5	2
50	34â€1: Evaluating and Minimizing Color Distortion in Wideâ€Gamut Displays Due to Variations of Cone Fundamentals among Colorâ€Normal Observers. Digest of Technical Papers SID International Symposium, 2021, 52, 450-453.	0.1	2
51	CAM18sl brightness prediction for unrelated saturated stimuli including age effects. Optics Express, 2021, 29, 29257.	1.7	2
52	PILOT STUDY ON COLOR MATCHING ACCURACY USING DIFFERENT PRIMARIES. , 2019, , .		2
53	Evaluation and modification of von Kries chromatic adaptation transform. Color and Imaging Conference, 2019, 2019, 23-27.	0.1	2
54	A Comparison of Partition Scaling and Magnitude Estimation for Brightness Scaling. LEUKOS - Journal of Illuminating Engineering Society of North America, 2021, 17, 265-279.	1.5	2

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55	Relationship between perceived room brightness and light source appearance mode in different media: reality, virtual reality and 2D images. Color and Imaging Conference, 2020, 28, 30-35.	0.1	2
56	Improved Method for Evaluating and Specifying the Chromaticity of Light Sources. LEUKOS - Journal of Illuminating Engineering Society of North America, 2023, 19, 35-52.	1.5	2
57	Towards a New Colour Appearance Model for Self-luminous Stimuli. Journal of Science and Technology in Lighting, 2018, 41, 153-164.	0.3	1
58	Assessing the application of an image color appearance model to basic selfâ€luminous scenes. Color Research and Application, 2019, 44, 848-858.	0.8	1
59	Derivation of Brightness Scales Using Partition Scaling. LEUKOS - Journal of Illuminating Engineering Society of North America, 2021, 17, 125-139.	1.5	1
60	APPLYING AN IMAGE COLOUR APPEARANCE MODEL FOR SIMPLE SELF-LUMINOUS SCENES. , 2019, , .		1
61	Magnetically stabilized high pressure discharge in air. European Physical Journal D, 2000, 50, 309.	0.4	0
62	Application specific extension of the MCRI: Memory colors and preferred colors of reddish meat products. Color Research and Application, 2018, 43, 899-906.	0.8	0
63	Selecting the optimal synthesis parameters of InP/Cd[x]Zn[1-x]Se quantum dots when combined with different broad band phosphors to optimize color rendering and efficiency of a remote phosphor white LED. , 2017, , .		0
64	Towards an image-based brightness model for self-luminous stimuli. Optics Express, 2022, 30, 9035.	1.7	0
65	Multi-Channel LED Luminaires: An Object-Oriented Approach for Retail Lighting Based on the SOR Framework. Sustainability, 2022, 14, 5994.	1.6	0
66	Brightness appearance of selfâ€luminous stimuli on a nonâ€uniform background. Color Research and Application, 0, , .	0.8	0