

Peter Hanselaer

List of Publications by Citations

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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.

116
papers

2,016
citations

24
h-index

41
g-index

131
ext. papers

2,322
ext. citations

2.7
avg, IF

4.99
L-index

#	Paper	IF	Citations
116	An investigation of the chemical stability of a monomer/polymer gel dosimeter. <i>Physics in Medicine and Biology</i> , 2000 , 45, 859-78	3.8	156
115	Current-voltage characteristic of Ti-pSi metal-oxide-semiconductor diodes. <i>Journal of Applied Physics</i> , 1984 , 56, 2309-2314	2.5	93
114	Correlation between color quality metric predictions and visual appreciation of light sources. <i>Optics Express</i> , 2011 , 19, 8151-66	3.3	88
113	High power light-emitting diode junction temperature determination from current-voltage characteristics. <i>Journal of Applied Physics</i> , 2008 , 104, 093104	2.5	87
112	Memory colours and colour quality evaluation of conventional and solid-state lamps. <i>Optics Express</i> , 2010 , 18, 26229-44	3.3	85
111	Absolute determination of photoluminescence quantum efficiency using an integrating sphere setup. <i>Review of Scientific Instruments</i> , 2014 , 85, 123115	1.7	71
110	Colour appearance rating of familiar real objects. <i>Color Research and Application</i> , 2011 , 36, 192-200	1.3	70
109	Criteria for energy efficient lighting in buildings. <i>Energy and Buildings</i> , 2010 , 42, 341-347	7	70
108	A memory colour quality metric for white light sources. <i>Energy and Buildings</i> , 2012 , 49, 216-225	7	64
107	A batch LED reactor for the photocatalytic degradation of phenol. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013 , 71, 43-50	3.7	64
106	Modeling high power light-emitting diode spectra and their variation with junction temperature. <i>Journal of Applied Physics</i> , 2010 , 108, 043104	2.5	56
105	Determination and Optimization of the Luminescence External Quantum Efficiency of Silver-Clusters Zeolite Composites. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6998-7004	3.8	55
104	The influence of a HF and an annealing treatment on the barrier height of p- and n-type Si MIS structures. <i>Applied Physics A: Solids and Surfaces</i> , 1986 , 39, 129-133		55
103	Design of an instrument for measuring the spectral bidirectional scatter distribution function. <i>Applied Optics</i> , 2008 , 47, 5454-67	0.2	53
102	Chromaticity of unique white in object mode. <i>Optics Express</i> , 2014 , 22, 25830-41	3.3	41
101	Linear LED tubes versus fluorescent lamps: An evaluation. <i>Energy and Buildings</i> , 2012 , 49, 429-436	7	39
100	Analysis of energy savings of three daylight control systems in a school building by means of monitoring. <i>Energy and Buildings</i> , 2016 , 127, 969-979	7	34

99	Study of chromatic adaptation using memory color matches, Part I: neutral illuminants. <i>Optics Express</i> , 2017 , 25, 7732-7748	3.3	33
98	Study of chromatic adaptation using memory color matches, Part II: colored illuminants. <i>Optics Express</i> , 2017 , 25, 8350-8365	3.3	31
97	Toward the soft metrology of surface gloss: A review. <i>Color Research and Application</i> , 2014 , 39, 559-570	1.3	29
96	Geometry of illumination, luminance contrast, and gloss perception. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010 , 27, 2046-54	1.8	29
95	Ray mapping method for off-axis and non-paraxial freeform illumination lens design. <i>Optics Letters</i> , 2019 , 44, 771-774	3	29
94	Memory and preferred colours and the colour rendition of white light sources. <i>Lighting Research and Technology</i> , 2016 , 48, 393-411	2	25
93	Experimental driven modelling of the color appearance of unrelated self-luminous stimuli: CAM15u. <i>Optics Express</i> , 2015 , 23, 12045-64	3.3	25
92	Chromaticity of unique white in illumination mode. <i>Optics Express</i> , 2015 , 23, 12488-95	3.3	24
91	Cross-cultural variation of memory colors of familiar objects. <i>Optics Express</i> , 2014 , 22, 32308-28	3.3	24
90	Brightness perception of unrelated self-luminous colors. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013 , 30, 1248-55	1.8	22
89	Impact of Illumination Correlated Color Temperature, Background Lightness, and Painting Color Content on Color Appearance and Appreciation of Paintings. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2020 , 16, 25-44	3.5	22
88	Optimization of colour quality of LED lighting with reference to memory colours. <i>Lighting Research and Technology</i> , 2012 , 44, 7-15	2	21
87	Calculation of the Unified Glare Rating based on luminance maps for uniform and non-uniform light sources. <i>Building and Environment</i> , 2015 , 84, 60-67	6.5	20
86	Estimation of the effective phase function of bulk diffusing materials with the inverse adding-doubling method. <i>Applied Optics</i> , 2014 , 53, 2117-25	1.7	20
85	Luminance-based specular gloss characterization. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011 , 28, 1322-30	1.8	19
84	Flexible design method for freeform lenses with an arbitrary lens contour. <i>Optics Letters</i> , 2017 , 42, 5238-5241	3.3	18
83	Power and photon budget of a remote phosphor LED module. <i>Optics Express</i> , 2014 , 22 Suppl 4, A1079-93	3.3	18
82	Optimal colour quality of LED clusters based on memory colours. <i>Optics Express</i> , 2011 , 19, 6903-12	3.3	18

81	A new integrating sphere design for spectral radiant flux determination of light-emitting diodes. <i>Measurement Science and Technology</i> , 2009 , 20, 095111	2	18
80	Extended adding-doubling method for fluorescent applications. <i>Optics Express</i> , 2012 , 20, 17856-72	3.3	18
79	Power density targets for efficient lighting of interior task areas. <i>Lighting Research and Technology</i> , 2007 , 39, 171-184	2	17
78	Determination of the bulk scattering parameters of diffusing materials. <i>Applied Optics</i> , 2013 , 52, 4083-90.7	1.7	16
77	Overall gloss evaluation in the presence of multiple cues to surface glossiness. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012 , 29, 1105-14	1.8	16
76	A psychophysical model for visual discomfort based on receptive fields. <i>Lighting Research and Technology</i> , 2018 , 50, 205-217	2	12
75	Impact of cross-regional differences on color rendition evaluation of white light sources. <i>Optics Express</i> , 2015 , 23, 30216-26	3.3	12
74	Predicting the brightness of unrelated self-luminous stimuli. <i>Optics Express</i> , 2014 , 22, 16298-309	3.3	12
73	Color appearance model for self-luminous stimuli. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018 , 35, 2000-2009	1.8	12
72	Defining the Actual Luminous Surface in the Unified Glare Rating. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2017 , 13, 201-210	3.5	10
71	Optical determination of the junction temperature of OLEDs. <i>Organic Electronics</i> , 2013 , 14, 2770-2776	3.5	10
70	Selecting the optimal synthesis parameters of InP/CdxZnSe quantum dots for a hybrid remote phosphor white LED for general lighting applications. <i>Optics Express</i> , 2017 , 25, A1009-A1022	3.3	10
69	Simulating the spatial luminance distribution of planar light sources by sampling of ray files. <i>Optics Express</i> , 2013 , 21, 24099-111	3.3	9
68	An Efficient Optothermal Simulation Framework for Optimization of High-Luminance White Light Sources. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-15	1.8	9
67	Brightness prediction of different sized unrelated self-luminous stimuli. <i>Optics Express</i> , 2015 , 23, 13455-66	3.3	8
66	Failure analysis of electrical-thermal-optical characteristics of LEDs based on AlGaInP and InGaN/GaN. <i>Semiconductors</i> , 2012 , 46, 1310-1315	0.7	8
65	Luminance spreading freeform lens arrays with accurate intensity control. <i>Optics Express</i> , 2019 , 27, 32994-33004	3.3	8
64	The use of the adding-doubling method for the optical optimization of planar luminescent down shifting layers for solar cells. <i>Optics Express</i> , 2014 , 22 Suppl 3, A765-78	3.3	7

63	An experimental study of Ti-pSi MIS type Schottky barriers. <i>Journal Physics D: Applied Physics</i> , 1982 , 15, L7-L10	3	7
62	Effect of adapting field size on chromatic adaptation. <i>Optics Express</i> , 2020 , 28, 17266-17285	3.3	7
61	Brightness Model for Neutral Self-Luminous Stimuli and Backgrounds. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2018 , 14, 231-244	3.5	7
60	Rayfiles including spectral and colorimetric information. <i>Optics Express</i> , 2015 , 23, A361-70	3.3	6
59	Analysis of painted artworks color appearance under various lighting settings 2017 ,		6
58	Impact of the Geometrical and Optical Parameters on the Performance of a Cylindrical Remote Phosphor LED. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-14	1.8	6
57	Impact of the accurateness of bidirectional reflectance distribution function data on the intensity and luminance distributions of a light-emitting diode mixing chamber as obtained by simulations. <i>Optical Engineering</i> , 2013 , 52, 095101	1.1	6
56	The influence of silicide formation on the barrier height of Ti/Si MIS Schottky barriers. <i>Semiconductor Science and Technology</i> , 1986 , 1, 376-382	1.8	6
55	Improving the opto-thermal performance of transmissive laser-based white light sources through beam shaping. <i>Optics Express</i> , 2019 , 27, A235-A244	3.3	6
54	Impact of the starting point chromaticity on memory color matching accuracy. <i>Optics Express</i> , 2019 , 27, 35308-35324	3.3	6
53	Practical limitations of near-field goniophotometer measurements imposed by a dynamic range mismatch. <i>Optics Express</i> , 2015 , 23, 2240-51	3.3	5
52	Determination of volume scattering parameters that reproduce the luminance characteristics of diffusers. <i>Optics Express</i> , 2016 , 24, 11727-38	3.3	5
51	Repeatability and reproducibility of specular gloss meters in theory and practice 2016 , 13, 941-951		5
50	Radiance based method for accurate determination of volume scattering parameters using GPU-accelerated Monte Carlo. <i>Optics Express</i> , 2017 , 25, 22575-22586	3.3	5
49	Determination of the optimal amount of scattering in a wavelength conversion plate for white LEDs. <i>Optics Express</i> , 2015 , 23, A1629-41	3.3	5
48	Experimental validation of adding-doubling modeling of solar cells including luminescent down-shifting layers. <i>Journal of Renewable and Sustainable Energy</i> , 2015 , 7, 043130	2.5	5
47	Near-field and far-field goniophotometry of narrow-beam LED arrays. <i>Lighting Research and Technology</i> , 2015 , 47, 470-482	2	5
46	A hybrid tool for spectral ray tracing simulations of luminescent cascade systems. <i>Optics Express</i> , 2014 , 22, 24582-93	3.3	5

45	Bayesian deconvolution method applied to experimental bidirectional transmittance distribution functions. <i>Measurement Science and Technology</i> , 2013 , 24, 035202	2	5
44	Safety perception of stairs with integrated lighting. <i>Building and Environment</i> , 2019 , 166, 106389	6.5	4
43	Large barrier tunnel metal-insulator-semiconductor structures. <i>Semiconductor Science and Technology</i> , 1987 , 2, 94-101	1.8	4
42	Investigation on photoelectrochemical cells based upon silicon/methanol interfaces. Part 2: p-type Si. <i>Solar Energy Materials and Solar Cells</i> , 1982 , 7, 33-42		4
41	Freeform Fresnel lenses with a low number of discontinuities for tailored illumination applications. <i>Optics Express</i> , 2020 , 28, 24489-24500	3.3	4
40	THE INFLUENCE OF ADAPTING FIELD SIZE ON DEGREE OF CHROMATIC ADAPTATION 2018 ,		4
39	Exploring the applicability of the CAM18sl brightness prediction. <i>Optics Express</i> , 2019 , 27, 14423-14436	3.3	4
38	Pupillary light reflex, receptive field mechanism and correction for retinal position for the assessment of visual discomfort. <i>Lighting Research and Technology</i> , 2019 , 51, 291-303	2	4
37	Impact of Color-Matching Primaries on Observer Matching: Part I Accuracy. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 1-23	3.5	4
36	Development of an image-based gloss measurement instrument 2019 , 16, 913-921		3
35	Design of an inexpensive integrating sphere student laboratory setup for the optical characterization of light sources. <i>European Journal of Physics</i> , 2016 , 37, 015302	0.8	3
34	Experimental determination of the absorption and scattering properties of YAG:Ce phosphor 2014 ,		3
33	Taking the spectral overlap between excitation and emission spectra of fluorescent materials into account with Monte Carlo simulations 2014 ,		3
32	Stray light performance of a combined monochromator-spectrograph UV irradiance measuring instrument. <i>Measurement Science and Technology</i> , 2010 , 21, 085304	2	3
31	Feasibility study of a brute-force ray tracing approach to obtain luminance maps of luminaires modeled with ray files 2010 ,		3
30	Modelling the spatial colour distribution of phosphor-white high power light-emitting diodes 2010 ,		3
29	Thermal characterization of single-die and multi-die high power light-emitting diodes 2008 ,		3
28	Efficient Design Method of Segmented Lenses for Lighting Applications with Prescribed Intensity and Low Peak Luminance. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2019 , 15, 281-292	3.5	2

27	Quality Assessment of Virtual Prototypes of Surgical Luminaires using Near-field Ray-data. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2013 , 9, 189-200	3.5	2
26	Fluorescence errors in integrating sphere measurements of remote phosphor type LED light sources 2011 ,		2
25	Efficiency Evaluation of Phosphor-white High-power Light-emitting Diodes. <i>Journal of Light and Visual Environment</i> , 2011 , 35, 199-206		2
24	Modelling Incomplete Chromatic Adaptation and Colour Contrast Using Memory Colour. <i>Color and Imaging Conference</i> , 2016 , 2016, 82-87	0.8	2
23	PILOT STUDY ON COLOR MATCHING ACCURACY USING DIFFERENT PRIMARIES 2019 ,		2
22	BRDF characterization of Al-coated thermoplastic polymer surfaces 2020 , 17, 1195-1205		2
21	Towards a New Colour Appearance Model for Self-luminous Stimuli. <i>Journal of Science and Technology in Lighting</i> , 2018 , 41, 153-164	0.1	1
20	Assessing the application of an image color appearance model to basic self-luminous scenes. <i>Color Research and Application</i> , 2019 , 44, 848-858	1.3	1
19	42.3: Invited Paper: Progress in the Soft Metrology of Appearance: the Contribution of Digital Image Representations. <i>Digest of Technical Papers SID International Symposium</i> , 2014 , 45, 603-606	0.5	1
18	Color sensitivity of the multi-exposure HDR imaging process. <i>Advanced Optical Technologies</i> , 2013 , 2,	0.9	1
17	A Narrow Beam Reflector for a Two-Dimensional Array of Power Light Emitting Diodes. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2008 , 4, 243-254	3.5	1
16	Holistic opto-thermal simulation framework for high-brightness light sources based on fluorescent conversion. <i>Optics Express</i> , 2019 , 27, A1324-A1337	3.3	1
15	A Comparison of Partition Scaling and Magnitude Estimation for Brightness Scaling. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2021 , 17, 265-279	3.5	1
14	Relationship between pupillary size, brightness, and photoreceptor responses for unrelated self-luminous stimuli at low photopic light levels. <i>Color Research and Application</i> , 2020 , 45, 977-991	1.3	1
13	Visualization of Lighting Quality and Object Appearance When Using Multichannel Light Sources. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 1-14	3.5	1
12	Spot phosphor concept applied to a remote phosphor light-emitting diode light engine. <i>Optical Engineering</i> , 2016 , 55, 115103	1.1	1
11	Spot phosphor concept applied to the remote phosphor configuration of a white phosphor-converted LED 2016 ,		1
10	Opto-thermal study of cooling strategies for high-luminance white-light solid-state sources 2016 ,		1

9	Derivation of Brightness Scales Using Partition Scaling. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2021 , 17, 125-139	3.5	1
8	Impact of Color Matching Primaries on Observer Matching: Part II Observer Variability. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 1-18	3.5	1
7	CAM18sl brightness prediction for unrelated saturated stimuli including age effects. <i>Optics Express</i> , 2021 , 29, 29257-29274	3.3	1
6	Road Marking Contrast Threshold Revisited. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 1-20	3.5	1
5	On the temperature dependence of the Mott-Schottky characteristics of high-barrier Ti β -Si metal-insulator-semiconductor diodes. <i>Journal of Applied Physics</i> , 1987 , 61, 2277-2281	2.5	0
4	Optical Modelling of Luminescent Cascade Systems with the Adding-Doubling Method. <i>Springer Proceedings in Physics</i> , 2016 , 67-80	0.2	
3	Receptive Field Mechanism and Pupillary Light Reflex for the Assessment of Visual Discomfort 2018 , 75-80		
2	Application specific extension of the MCRI: Memory colors and preferred colors of reddish meat products. <i>Color Research and Application</i> , 2018 , 43, 899-906	1.3	
1	Multi-Channel LED Luminaires: An Object-Oriented Approach for Retail Lighting Based on the SOR Framework. <i>Sustainability</i> , 2022 , 14, 5994	3.6	