

John D Bullough

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.

143
papers

2,453
citations

26
h-index

46
g-index

173
ext. papers

2,895
ext. citations

2.1
avg, IF

5.16
L-index

#	Paper	IF	Citations
143	A model of phototransduction by the human circadian system. <i>Brain Research Reviews</i> , 2005 , 50, 213-28		247
142	Circadian light. <i>Journal of Circadian Rhythms</i> , 2010 , 8, 2	2.5	169
141	Evaluating Light Source Efficacy under Mesopic Conditions Using Reaction Times. <i>Leukos</i> , 1997 , 26, 125-138		111
140	A proposed unified system of photometry. <i>Lighting Research and Technology</i> , 2004 , 36, 85-109	2	103
139	Circadian photobiology: an emerging framework for lighting practice and research. <i>Lighting Research and Technology</i> , 2002 , 34, 177-187	2	97
138	To illuminate or not to illuminate: roadway lighting as it affects traffic safety at intersections. <i>Accident Analysis and Prevention</i> , 2013 , 53, 65-77	6.1	76
137	A new approach to understanding the impact of circadian disruption on human health. <i>Journal of Circadian Rhythms</i> , 2008 , 6, 7	2.5	75
136	Several views of metal halide and high-pressure sodium lighting for outdoor applications. <i>Lighting Research and Technology</i> , 2009 , 41, 297-320	2	75
135	Preliminary evidence for spectral opponency in the suppression of melatonin by light in humans. <i>NeuroReport</i> , 2004 , 15, 313-6	1.7	65
134	Simulated driving performance and peripheral detection at mesopic and low photopic light levels. <i>Lighting Research and Technology</i> , 2000 , 32, 194-198	2	59
133	Predicting discomfort glare from outdoor lighting installations. <i>Lighting Research and Technology</i> , 2008 , 40, 225-242	2	55
132	Toward a model of outdoor lighting scene brightness. <i>Lighting Research and Technology</i> , 2011 , 43, 7-30	2	54
131	Circadian effectiveness of two polychromatic lights in suppressing human nocturnal melatonin. <i>Neuroscience Letters</i> , 2006 , 406, 293-7	3.3	53
130	Driver decision making in response to peripheral moving targets under mesopic light levels. <i>Lighting Research and Technology</i> , 2007 , 39, 53-67	2	51
129	Outdoor site-lighting performance: A comprehensive and quantitative framework for assessing light pollution. <i>Lighting Research and Technology</i> , 2008 , 40, 201-224	2	49
128	Lighting for subsidiary streets: investigation of lamps of different SPD. Part 2 Brightness. <i>Lighting Research and Technology</i> , 2007 , 39, 233-249	2	48
127	Phototransduction for human melatonin suppression. <i>Journal of Pineal Research</i> , 2002 , 32, 209-13	10.4	45

126	Effects of flicker characteristics from solid-state lighting on detection, acceptability and comfort. <i>Lighting Research and Technology</i> , 2011 , 43, 337-348	2	44
125	The Blue-Light Hazard: A Review. <i>Leukos</i> , 2000 , 29, 6-14		44
124	Of mice and women: light as a circadian stimulus in breast cancer research. <i>Cancer Causes and Control</i> , 2006 , 17, 375-83	2.8	43
123	Impact of Surrounding Illumination on Visual Fatigue and Eyestrain While Viewing Television. <i>Journal of Applied Sciences</i> , 2006 , 6, 1664-1670	0.3	38
122	Human melatonin suppression by light: a case for scotopic efficiency. <i>Neuroscience Letters</i> , 2001 , 299, 45-8	3.3	37
121	Light and magnetic fields in a neonatal intensive care unit. <i>Bioelectromagnetics</i> , 1996 , 17, 396-405	1.6	37
120	Spectral sensitivity for extrafoveal discomfort glare. <i>Journal of Modern Optics</i> , 2009 , 56, 1518-1522	1.1	33
119	A method for assessing the visibility benefits of roadway lighting. <i>Lighting Research and Technology</i> , 2010 , 42, 215-241	2	31
118	Evaluating the blue-light hazard from solid state lighting. <i>International Journal of Occupational Safety and Ergonomics</i> , 2019 , 25, 311-320	2.1	28
117	Does architectural lighting contribute to breast cancer?. <i>Journal of Carcinogenesis</i> , 2006 , 5, 20	1.9	26
116	Discomfort and Disability Glare from Halogen and HID Headlamp Systems 2002 ,		26
115	On light as an alerting stimulus at night. <i>Acta Neurobiologiae Experimentalis</i> , 2007 , 67, 171-8	1	26
114	Detection and acceptability of stroboscopic effects from flicker. <i>Lighting Research and Technology</i> , 2012 , 44, 477-483	2	24
113	The impact of spectral power distribution on the performance of an achromatic visual task. <i>Lighting Research and Technology</i> , 2003 , 35, 141-156	2	24
112	Making the move to a unified system of photometry. <i>Lighting Research and Technology</i> , 2007 , 39, 393-408		23
111	A discussion of recommended standards for lighting in the newborn intensive care unit. <i>Journal of Perinatology</i> , 2006 , 26, S19-S26	3.1	21
110	Influence of Spectral Power Distribution on Scene Brightness at Different Light Levels. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2014 , 10, 3-9	3.5	20
109	Additivity in murine circadian phototransduction. <i>Zoological Science</i> , 2005 , 22, 223-7	0.8	19

108	Preliminary evidence for a change in spectral sensitivity of the circadian system at night. <i>Journal of Circadian Rhythms</i> , 2005 , 3, 14	2.5	18
107	Demonstration of additivity failure in human circadian phototransduction. <i>Neuroendocrinology Letters</i> , 2005 , 26, 493-8	0.3	18
106	Interactions among Light Source Luminance, Illuminance and Size on Discomfort Glare. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2012 , 5, 199-202	0.3	17
105	Design and optimization of a retinal flux density meter. <i>Measurement Science and Technology</i> , 2002 , 13, 821-828	2	17
104	Response to Simulated Traffic Signals Using Light-Emitting Diode and Incandescent Sources. <i>Transportation Research Record</i> , 2000 , 1724, 39-46	1.7	15
103	Parking lot lighting based upon predictions of scene brightness and personal safety. <i>Lighting Research and Technology</i> , 2017 , 49, 293-304	2	14
102	Spectral Sensitivity Modeling and Nighttime Scene Brightness Perception. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2015 , 11, 11-17	3.5	14
101	A personal light-treatment device for improving sleep quality in the elderly: dynamics of nocturnal melatonin suppression at two exposure levels. <i>Chronobiology International</i> , 2009 , 26, 726-39	3.6	13
100	On melatonin suppression from polychromatic and narrowband light. <i>Chronobiology International</i> , 2008 , 25, 653-6	3.6	13
99	Evaluation of High-Intensity Discharge Automotive Forward Lighting 2001 ,		13
98	Scene brightness of illuminated interiors. <i>Lighting Research and Technology</i> , 2016 , 48, 823-831	2	13
97	Investigating visual mechanisms underlying scene brightness. <i>Lighting Research and Technology</i> , 2017 , 49, 16-32	2	11
96	Effect of different coloured luminous surrounds on LED discomfort glare perception. <i>Lighting Research and Technology</i> , 2013 , 45, 464-475	2	10
95	Testing a provisional model of scene brightness with and without objects of different colours. <i>Lighting Research and Technology</i> , 2011 , 43, 173-184	2	10
94	Application Efficacy. <i>Leukos</i> , 2001 , 30, 73-96		10
93	Impacts of Fog Characteristics, Forward Illumination, and Warning Beacon Intensity Distribution on Roadway Hazard Visibility. <i>Scientific World Journal, The</i> , 2016 , 2016, 4687816	2.2	10
92	Discomfort Glare from Headlamps: Interactions Among Spectrum, Control of Gaze and Background Light Level 2003 ,		8
91	Visual Benefits of High-Intensity Discharge Automotive Forward Lighting 2002 ,		8

90	Influence of flicker characteristics on stroboscopic effects. <i>Lighting Research and Technology</i> , 2016 , 48, 857-870	2	7
89	Luminance versus Luminous Intensity as a Metric for Discomfort Glare 2011 ,		7
88	Development of Autoluminescent Surfacing for Concrete Pavements. <i>Transportation Research Record</i> , 2008 , 2070, 22-31	1.7	7
87	Brightness contrast perception in the mesopic region. <i>Ophthalmic and Physiological Optics</i> , 2006 , 26, 300-12	4.1	7
86	Headlamp Parameters and Glare 2004 ,		7
85	Driving in Snow: Effect of Headlamp Color at Mesopic and Photopic Light Levels 2001 ,		7
84	Toward Performance Specifications for Flashing Warning Beacons. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2016 , 43, 36-47	4.5	7
83	Spectral considerations for outdoor lighting: Designing for perceived scene brightness. <i>Lighting Research and Technology</i> , 2015 , 47, 909-919	2	6
82	Visual Performance Under Mesopic Conditions: Consequences for Roadway Lighting. <i>Transportation Research Record</i> , 2004 , 1862, 89-94	1.7	6
81	Traffic Signal Luminance and Visual Discomfort at Night. <i>Transportation Research Record</i> , 2001 , 1754, 42-47	1.7	6
80	Impacts of average illuminance, spectral distribution, and uniformity on brightness and safety perceptions under parking lot lighting. <i>Lighting Research and Technology</i> , 2020 , 52, 626-640	2	6
79	Preliminary evaluation of discomfort glare from organic light-emitting diode and edge-lit light-emitting diode lighting panels. <i>Journal of Biomedical Optics</i> , 2017 , 22, 55004	3.5	5
78	Spectral sensitivity and scene brightness at low to moderate photopic light levels. <i>Lighting Research and Technology</i> , 2016 , 48, 676-688	2	5
77	Vehicle Lighting and Modern Roundabouts: Implications for Pedestrian Safety. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2012 , 5, 195-198	0.3	5
76	Visibility from Vehicle Headlamps and Roadway Lighting in Urban, Suburban and Rural Locations 2010 ,		5
75	Performance Evaluation of Semipermanent High-Mast Lighting for Highway Construction Projects. <i>Transportation Research Record</i> , 2008 , 2055, 53-59	1.7	5
74	Spectral Effects of High-Intensity Discharge Automotive Forward Lighting on Visual Performance 2003 ,		5
73	Headlight Glare Exposure and Recovery 2005 ,		5

72	Evaluation of Automotive Stop Lamps Using Incandescent and Sweeping Neon and LED Light Sources 2001 ,		5
71	Onset Times and Detection of Colored Signal Lights		5
70	Perceived brightness of incandescent and LED aviation signal lights. <i>Aviation, Space, and Environmental Medicine</i> , 2007 , 78, 893-900		5
69	Work Zone Lighting and Visual Performance: Analysis and Demonstration. <i>Transportation Research Record</i> , 2013 , 2337, 25-34	1.7	4
68	Intelligent control of roadway lighting to optimize safety benefits per overall costs 2011 ,		4
67	Implementing Semipermanent High-Mast Lighting for Highway Construction Projects. <i>Transportation Research Record</i> , 2008 , 2055, 49-52	1.7	4
66	Strategies for Optimizing Headlamp Illumination and Visibility Along Curves 2006 ,		4
65	Spectral Effects of LED Forward Lighting: Visibility and Glare 2006 ,		4
64	Effects of Sweeping, Color and Luminance Distribution on Response to Automotive Stop Lamps 2002 ,		4
63	Cone and melanopsin contributions to human brightness estimation: comment. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018 , 35, 1780-1782	1.8	4
62	Assessment of an Adaptive Driving Beam Headlighting System: Visibility and Glare. <i>Transportation Research Record</i> , 2016 , 2555, 81-85	1.7	4
61	Real-World Demonstrations of Novel Pedestrian Crosswalk Lighting. <i>Transportation Research Record</i> , 2017 , 2661, 62-68	1.7	3
60	Toward the Development of Standards for Yellow Flashing Lights Used in Work Zones. <i>Lighting Research and Technology</i> , 2018 , 50, 552-570	2	3
59	Vehicle Headlights: Aiming for Better Driving Safety. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2016 , 12, 183-184	3.5	3
58	Human Factors Impacts of Light-Emitting Diode Airfield Lighting. <i>Transportation Research Record</i> , 2017 , 2626, 51-57	1.7	3
57	Adaptive High Beam Systems: Visual Performance and Safety Effects 2014 ,		3
56	Conspicuity of flashes of light: interactions between intensity and duration. <i>Journal of Modern Optics</i> , 2013 , 60, 1193-1199	1.1	3
55	Visual Task Performance and Perceptions of Lighting Quality Under Flickering Illumination. <i>Journal of Light and Visual Environment</i> , 2013 , 37, 189-193		3

54	Evaluation of Light-Emitting Diode Warning Beacons for Maintenance Vehicles. <i>Transportation Research Record</i> , 2011 , 2220, 82-87	1.7	3
53	Real-World Measurement of Headlamp Illumination 2010 ,		3
52	LEGIBILITY OF URBAN HIGHWAY TRAFFIC SIGNS USING NEW RETROREFLECTIVE MATERIALS. <i>Transport</i> , 2010 , 25, 229-236	1.4	3
51	Simple Model of Forward Visibility for Snowplow Operators Through Snow and Fog at Night. <i>Transportation Research Record</i> , 1997 , 1585, 19-24	1.7	3
50	Luminance requirements for lighted signage 2006 , 6337, 357		3
49	Detection and Identification of Light-Emitting Diode Traffic Signals by Protan Observers. <i>Transportation Research Record</i> , 2003 , 1844, 52-58	1.7	3
48	Visual Benefits of Blue Coated Lamps for Automotive Forward Lighting 2003 ,		3
47	Methods for Assessing the Impact of Oncoming Glare on Driving Behavior 2005 ,		3
46	Issues With Use of Airfield LED Light Fixtures 2012 ,		3
45	Investigation of flashing and intensity characteristics for vehicle-mounted warning beacons. <i>Accident Analysis and Prevention</i> , 2018 , 119, 23-28	6.1	3
44	Investigating Blue-Light Exposure from: Lighting and Displays. <i>Information Display</i> , 2020 , 36, 17-20	0.8	2
43	Impacts of Dynamic Rear Lighting on Driver Response 2014 ,		2
42	Characterising the effective intensity of multiple-pulse flashing signal lights. <i>Lighting Research and Technology</i> , 2013 , 45, 377-390	2	2
41	Visual Recovery and Discomfort Following Exposure to Oncoming Headlamps. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2009 , 2, 745-749	0.3	2
40	Technological Aspects of Solid-State and Incandescent Sources for Miner Cap Lamps. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 1583-1588	4.3	2
39	Survey of Snowplow Operators About Forward Lighting and Visibility During Nighttime Operations. <i>Transportation Research Record</i> , 1997 , 1585, 25-29	1.7	2
38	Spectral sensitivity of the circadian system 2004 ,		2
37	Perspectives on Intelligent Road Lighting Control. <i>Journal of Science and Technology in Lighting</i> , 2021 ,	0.1	2

36	Assessment of Adaptive Driving Beam Photometric Performance 2016 ,		2
35	Warning Light Flash Frequency as a Method for Visual Communication to Drivers. <i>Transportation Research Record</i> ,036119812098332	1.7	2
34	Response to White Light Emitting Diode Aviation Signal Lights Varying in Correlated Color Temperature. <i>Transportation Research Record</i> , 2019 , 2673, 667-675	1.7	1
33	High visibility reflective sign sheeting materials: field and computational evaluations of visual performance. <i>Transport</i> , 2018 , 33, 344-352	1.4	1
32	LEDs in automotive lighting 2014 , 595-605		1
31	Intelligent Warning Lights and Driving Safety 2015 ,		1
30	Aviation-related light-emitting diode (LED) perception research. <i>Aviation, Space, and Environmental Medicine</i> , 2013 , 84, 876-8		1
29	Headlamp Levelness and Glare: Preliminary Analyses Based on Field Data. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2013 , 6, 770-774	0.3	1
28	Effect of Dynamic Lighting Conditions on Visual Detection 2009 ,		1
27	Headlamp Illumination and Glare: An Approach to Predicting Peripheral Visibility 2004 ,		1
26	Evaluation of light-emitting diodes for signage applications 2004 ,		1
25	A Metabolic Transcriptional Network Links Sleep and Cellular Energetics in the Brain 2014 , 245-264		1
24	Influence of Intensity, Duration and Spectral Characteristics on Glare Recovery for Peripheral Visibility		1
23	Lighting as a Circadian Rhythm-Entraining and Alertness-Enhancing Stimulus in the Submarine Environment. <i>SSRN Electronic Journal</i> ,	1	1
22	Temporal Aspects of Lighting: A Study on Detection and Acceptance during Starting. <i>Journal of Light and Visual Environment</i> , 2007 , 31, 19-24		1
21	A Novel Barricade Warning Light System Using Wireless Communications		1
20	Brief Communication: Impact of Sign Panel Luminance on Visual Comfort. <i>Interdisciplinary Journal of Signage and Wayfinding</i> , 2019 , 3, 3-7	0.6	1
19	73-4: Invited Paper: Are Displays Giving Us the Blues?. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 1098-1101	0.5	1

18	Rational Basis for Light Emitting Diode Street Lighting Retrofit Luminaire Selection. <i>Transportation Research Record</i> ,036119812110038	1.7	1
17	Driver Behavior in Response to Flashing Lights. <i>Transportation Research Record</i> , 2019 , 2673, 703-708	1.7	0
16	Indirect Detection of Visual Signals for Emergency Notification. <i>Fire Technology</i> , 2016 , 52, 1427-1444	3	0
15	LEDs and automotive lighting applications 2018 , 647-658		0
14	Efficacy of wipers-on, headlamps-on legislation. <i>Safety Science</i> , 2012 , 50, 575-578	5.8	0
13	Ecoluminance: A New Approach to Visual Guidance for Roadways. <i>International Journal of Sustainable Transportation</i> , 2013 , 8, 127-150	3.6	0
12	Onset Times and Detection of Colored Signal Lights. <i>Transportation Research Record</i> , 2005 , 1918, 123-127	7	0
11	14-2: Dynamic Peripheral Communication for Advanced Automotive Applications. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 180-183	0.5	
10	Photometry, Colorimetry and Radiometry: Issues and Applications. <i>Journal of Modern Optics</i> , 2013 , 60, 1099-1099	1.1	
9	Opinion: Will road lighting wither?. <i>Lighting Research and Technology</i> , 2017 , 49, 672-672	2	
8	Solid-State Automotive Lighting: Implications for Sustainability and Safety 2012 , 357-361		
7	Development of a Guide for Replacement of Roadway Lighting with New Lighting Technologies. <i>Transportation Research Record</i> , 2013 , 2384, 95-101	1.7	
6	Visual Display Effectiveness at Mesopic Luminances. <i>Journal of Display Technology</i> , 2011 , 7, 167-169		
5	Many facets of light pollution. <i>Physics Today</i> , 2010 , 63, 8-10	0.9	
4	ASSESSING THE VISIBILITY OF RAISED PAVEMENT MARKERS AND ALTERNATIVE FORMS OF DELINEATION. <i>Transport</i> , 2020 , 35, 98-107	1.4	
3	Brief Communication: Impact of Sign Character Aspect Ratio on Legibility. <i>Interdisciplinary Journal of Signage and Wayfinding</i> , 2019 , 3, 8-11	0.6	
2	Output Reduction over Time of Germicidal UV-C Lamps Used for Treating Agricultural Crops. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> ,1-9	3.5	
1	MEASUREMENT OF LIGHT AND COLOR 2016 , 2043-2074		

