

# John D Bullough

## List of Publications by Year in descending order

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Version: 2024-02-01

159  
papers

3,298  
citations

172386

29  
h-index

175177

52  
g-index

173  
all docs

173  
docs citations

173  
times ranked

1377  
citing authors

#	ARTICLE	IF	CITATIONS
1	A model of phototransduction by the human circadian system. <i>Brain Research Reviews</i> , 2005, 50, 213-228.	9.1	295
2	Circadian light. <i>Journal of Circadian Rhythms</i> , 2014, 8, 2.	2.9	211
3	Evaluating Light Source Efficacy under Mesopic Conditions Using Reaction Times. <i>Leukos</i> , 1997, 26, 125-138.	0.3	144
4	Circadian photobiology: an emerging framework for lighting practice and research. <i>Lighting Research and Technology</i> , 2002, 34, 177-187.	1.2	134
5	A proposed unified system of photometry. <i>Lighting Research and Technology</i> , 2004, 36, 85-109.	1.2	134
6	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.	3.0	103
7	Several views of metal halide and high-pressure sodium lighting for outdoor applications. <i>Lighting Research and Technology</i> , 2009, 41, 297-320.	1.2	95
8	A new approach to understanding the impact of circadian disruption on human health. <i>Journal of Circadian Rhythms</i> , 2014, 6, 7.	2.9	92
9	Simulated driving performance and peripheral detection at mesopic and low photopic light levels. <i>Lighting Research and Technology</i> , 2000, 32, 194-198.	1.2	82
10	Preliminary evidence for spectral opponency in the suppression of melatonin by light in humans. <i>NeuroReport</i> , 2004, 15, 313-316.	0.6	82
11	Predicting discomfort glare from outdoor lighting installations. <i>Lighting Research and Technology</i> , 2008, 40, 225-242.	1.2	71
12	Effects of flicker characteristics from solid-state lighting on detection, acceptability and comfort. <i>Lighting Research and Technology</i> , 2011, 43, 337-348.	1.2	70
13	Driver decision making in response to peripheral moving targets under mesopic light levels. <i>Lighting Research and Technology</i> , 2007, 39, 53-67.	1.2	69
14	Toward a model of outdoor lighting scene brightness. <i>Lighting Research and Technology</i> , 2011, 43, 7-30.	1.2	68
15	Outdoor site-lighting performance: A comprehensive and quantitative framework for assessing light pollution. <i>Lighting Research and Technology</i> , 2008, 40, 201-224.	1.2	65
16	Circadian effectiveness of two polychromatic lights in suppressing human nocturnal melatonin. <i>Neuroscience Letters</i> , 2006, 406, 293-297.	1.0	62
17	Impact of Surrounding Illumination on Visual Fatigue and Eyestrain While Viewing Television. <i>Journal of Applied Sciences</i> , 2006, 6, 1664-1670.	0.1	61
18	The Blue-Light Hazard: A Review. <i>Leukos</i> , 2000, 29, 6-14.	0.3	59

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19	Lighting for subsidiary streets: investigation of lamps of different SPD. Part 2 "Brightness. Lighting Research and Technology, 2007, 39, 233-249.	1.2	58
20	Phototransduction for human melatonin suppression. Journal of Pineal Research, 2002, 32, 209-213.	3.4	54
21	Of Mice and Women: Light as a Circadian Stimulus in Breast Cancer Research. Cancer Causes and Control, 2006, 17, 375-383.	0.8	49
22	Discomfort and Disability Glare from Halogen and HID Headlamp Systems. , 0, , .		46
23	Spectral sensitivity for extrafoveal discomfort glare. Journal of Modern Optics, 2009, 56, 1518-1522.	0.6	46
24	Detection and acceptability of stroboscopic effects from flicker. Lighting Research and Technology, 2012, 44, 477-483.	1.2	45
25	Evaluating the blue-light hazard from solid state lighting. International Journal of Occupational Safety and Ergonomics, 2019, 25, 311-320.	1.1	45
26	Human melatonin suppression by light: a case for scotopic efficiency. Neuroscience Letters, 2001, 299, 45-48.	1.0	43
27	Light and magnetic fields in a neonatal intensive care unit. Bioelectromagnetics, 1996, 17, 396-405.	0.9	40
28	The impact of spectral power distribution on the performance of an achromatic visual task. Lighting Research and Technology, 2003, 35, 141-156.	1.2	40
29	Does architectural lighting contribute to breast cancer?. Journal of Carcinogenesis, 2006, 5, 20.	2.5	39
30	A method for assessing the visibility benefits of roadway lighting. Lighting Research and Technology, 2010, 42, 215-241.	1.2	36
31	On light as an alerting stimulus at night. Acta Neurobiologiae Experimentalis, 2007, 67, 171-8.	0.4	29
32	Making the move to a unified system of photometry. Lighting Research and Technology, 2007, 39, 393-408.	1.2	27
33	A discussion of recommended standards for lighting in the newborn intensive care unit. Journal of Perinatology, 2006, 26, S19-S26.	0.9	25
34	Influence of Spectral Power Distribution on Scene Brightness at Different Light Levels. LEUKOS - Journal of Illuminating Engineering Society of North America, 2014, 10, 3-9.	1.5	25
35	Interactions among Light Source Luminance, Illuminance and Size on Discomfort Glare. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 5, 199-202.	0.4	23
36	Additivity in Murine Circadian Phototransduction. Zoological Science, 2005, 22, 223-227.	0.3	21

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37	Preliminary evidence for a change in spectral sensitivity of the circadian system at night. <i>Journal of Circadian Rhythms</i> , 2014, 3, 14.	2.9	21
38	Design and optimization of a retinal flux density meter. <i>Measurement Science and Technology</i> , 2002, 13, 821-828.	1.4	20
39	Scene brightness of illuminated interiors. <i>Lighting Research and Technology</i> , 2016, 48, 823-831.	1.2	20
40	Response to Simulated Traffic Signals Using Light-Emitting Diode and Incandescent Sources. <i>Transportation Research Record</i> , 2000, 1724, 39-46.	1.0	20
41	Effect of different coloured luminous surrounds on LED discomfort glare perception. <i>Lighting Research and Technology</i> , 2013, 45, 464-475.	1.2	19
42	Spectral Sensitivity Modeling and Nighttime Scene Brightness Perception. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2015, 11, 11-17.	1.5	19
43	Parking lot lighting based upon predictions of scene brightness and personal safety. <i>Lighting Research and Technology</i> , 2017, 49, 293-304.	1.2	18
44	Demonstration of additivity failure in human circadian phototransduction. <i>Neuroendocrinology Letters</i> , 2005, 26, 493-8.	0.2	18
45	Application Efficacy. <i>Leukos</i> , 2001, 30, 73-96.	0.3	17
46	Evaluation of High-Intensity Discharge Automotive Forward Lighting. , 2001, ,		17
47	Spectral Effects of High-Intensity Discharge Automotive Forward Lighting on Visual Performance. , 0, ,		17
48	Investigating visual mechanisms underlying scene brightness. <i>Lighting Research and Technology</i> , 2017, 49, 16-32.	1.2	15
49	Development of Autoluminescent Surfacing for Concrete Pavements. <i>Transportation Research Record</i> , 2008, 2070, 22-31.	1.0	14
50	On Melatonin Suppression from Polychromatic and Narrowband Light. <i>Chronobiology International</i> , 2008, 25, 653-656.	0.9	13
51	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, 726-739.	0.9	13
52	Testing a provisional model of scene brightness with and without objects of different colours. <i>Lighting Research and Technology</i> , 2011, 43, 173-184.	1.2	13
53	Driving in Snow: Effect of Headlamp Color at Mesopic and Photopic Light Levels. , 0, ,		12
54	Discomfort Glare from Headlamps: Interactions Among Spectrum, Control of Gaze and Background Light Level. , 0, ,		12

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55	Headlamp Parameters and Glare. , 0, , .		12
56	Impacts of Fog Characteristics, Forward Illumination, and Warning Beacon Intensity Distribution on Roadway Hazard Visibility. Scientific World Journal, The, 2016, 2016, 1-8.	0.8	12
57	Intelligent control of roadway lighting to optimize safety benefits per overall costs. , 2011, , .		11
58	Spectral sensitivity and scene brightness at low to moderate photopic light levels. Lighting Research and Technology, 2016, 48, 676-688.	1.2	11
59	Assessment of an Adaptive Driving Beam Headlighting System: Visibility and Glare. Transportation Research Record, 2016, 2555, 81-85.	1.0	10
60	Toward performance specifications for flashing warning beacons. Transportation Research Part F: Traffic Psychology and Behaviour, 2016, 43, 36-47.	1.8	10
61	Traffic Signal Luminance and Visual Discomfort at Night. Transportation Research Record, 2001, 1754, 42-47.	1.0	9
62	Visual Benefits of High-Intensity Discharge Automotive Forward Lighting. , 2002, , .		9
63	Visual Benefits of Blue Coated Lamps for Automotive Forward Lighting. , 0, , .		9
64	Visual Performance Under Mesopic Conditions: Consequences for Roadway Lighting. Transportation Research Record, 2004, 1862, 89-94.	1.0	9
65	Luminance versus Luminous Intensity as a Metric for Discomfort Glare. , 2011, , .		9
66	Spectral considerations for outdoor lighting: Designing for perceived scene brightness. Lighting Research and Technology, 2015, 47, 909-919.	1.2	9
67	Influence of flicker characteristics on stroboscopic effects. Lighting Research and Technology, 2016, 48, 857-870.	1.2	9
68	Impacts of average illuminance, spectral distribution, and uniformity on brightness and safety perceptions under parking lot lighting. Lighting Research and Technology, 2020, 52, 626-640.	1.2	9
69	Evaluation of Automotive Stop Lamps Using Incandescent and Sweeping Neon and LED Light Sources. , 0, , .		8
70	Headlight Glare Exposure and Recovery. , 2005, , .		8
71	Brightness contrast perception in the mesopic region. Ophthalmic and Physiological Optics, 2006, 26, 300-312.	1.0	8
72	Adaptive High Beam Systems: Visual Performance and Safety Effects. , 2014, , .		8

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73	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, 055004.	1.4	8
74	Toward the development of standards for yellow flashing lights used in work zones. <i>Lighting Research and Technology</i> , 2018, 50, 552-570.	1.2	8
75	Strategies for Optimizing Headlamp Illumination and Visibility Along Curves. , 2006, , .		7
76	Spectral Effects of LED Forward Lighting: Visibility and Glare. , 0, , .		7
77	Vehicle Headlights: Aiming for Better Driving Safety. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2016, 12, 183-184.	1.5	7
78	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.	0.8	7
79	Onset Times and Detection of Colored Signal Lights. <i>Transportation Research Record</i> , 2005, 1918, 123-127.	1.0	7
80	Effects of Sweeping, Color and Luminance Distribution on Response to Automotive Stop Lamps. , 2002, , .		6
81	Methods for Assessing the Impact of Oncoming Glare on Driving Behavior. , 0, , .		6
82	Vehicle Lighting and Modern Roundabouts: Implications for Pedestrian Safety. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2012, 5, 195-198.	0.4	6
83	Real-World Demonstrations of Novel Pedestrian Crosswalk Lighting. <i>Transportation Research Record</i> , 2017, 2661, 62-68.	1.0	6
84	Investigation of flashing and intensity characteristics for vehicle-mounted warning beacons. <i>Accident Analysis and Prevention</i> , 2018, 119, 23-28.	3.0	6
85	Simple Model of Forward Visibility for Snowplow Operators Through Snow and Fog at Night. <i>Transportation Research Record</i> , 1997, 1585, 19-24.	1.0	5
86	Evaluation of light-emitting diodes for signage applications. , 2004, , .		5
87	Spectral sensitivity of the circadian system. , 2004, , .		5
88	Luminance requirements for lighted signage. , 2006, 6337, 357.		5
89	Performance Evaluation of Semipermanent High-Mast Lighting for Highway Construction Projects. <i>Transportation Research Record</i> , 2008, 2055, 53-59.	1.0	5
90	Technological Aspects of Solid-State and Incandescent Sources for Miner Cap Lamps. <i>IEEE Transactions on Industry Applications</i> , 2009, 45, 1583-1588.	3.3	5

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91	Visibility from Vehicle Headlamps and Roadway Lighting in Urban, Suburban and Rural Locations. , 2010, , .		5
92	Warning Light Flash Frequency as a Method for Visual Communication to Drivers. Transportation Research Record, 0, , 036119812098332.	1.0	5
93	Rational Basis for Light Emitting Diode Street Lighting Retrofit Luminaire Selection. Transportation Research Record, 2021, 2675, 634-638.	1.0	5
94	Issues With Use of Airfield LED Light Fixtures. , 2012, , .		5
95	Perceived brightness of incandescent and LED aviation signal lights. Aviation, Space, and Environmental Medicine, 2007, 78, 893-900.	0.6	5
96	Survey of Snowplow Operators About Forward Lighting and Visibility During Nighttime Operations. Transportation Research Record, 1997, 1585, 25-29.	1.0	4
97	Headlamp Illumination and Glare: An Approach to Predicting Peripheral Visibility. , 2004, , .		4
98	Implementing Semipermanent High-Mast Lighting for Highway Construction Projects. Transportation Research Record, 2008, 2055, 49-52.	1.0	4
99	Real-World Measurement of Headlamp Illumination. , 0, , .		4
100	LEGIBILITY OF URBAN HIGHWAY TRAFFIC SIGNS USING NEW RETROREFLECTIVE MATERIALS. Transport, 2010, 25, 229-236.	0.6	4
101	Characterising the effective intensity of multiple-pulse flashing signal lights. Lighting Research and Technology, 2013, 45, 377-390.	1.2	4
102	Work Zone Lighting and Visual Performance. Transportation Research Record, 2013, 2337, 25-34.	1.0	4
103	Visual Task Performance and Perceptions of Lighting Quality Under Flickering Illumination. Journal of Light and Visual Environment, 2013, 37, 189-193.	0.2	4
104	Assessment of Adaptive Driving Beam Photometric Performance. , 2016, , .		4
105	Response to White Light Emitting Diode Aviation Signal Lights Varying in Correlated Color Temperature. Transportation Research Record, 2019, 2673, 667-675.	1.0	4
106	Perspectives on Intelligent Road Lighting Control. Journal of Science and Technology in Lighting, 2022, 45, 7-21.	0.3	4
107	Detection and Identification of Light-Emitting Diode Traffic Signals by Protan Observers. Transportation Research Record, 2003, 1844, 52-58.	1.0	3
108	Evaluation of Light-Emitting Diode Warning Beacons for Maintenance Vehicles. Transportation Research Record, 2011, 2220, 82-87.	1.0	3

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109	Conspicuity of flashes of light: interactions between intensity and duration. Journal of Modern Optics, 2013, 60, 1193-1199.	0.6	3
110	Human Factors Impacts of Light-Emitting Diode Airfield Lighting. Transportation Research Record, 2017, 2626, 51-57.	1.0	3
111	Investigating Blue-Light Exposure from: Lighting and Displays. Information Display, 2020, 36, 17-20.	0.1	3
112	Lighting as a Circadian Rhythm-Entraining and Alertness-Enhancing Stimulus in the Submarine Environment. SSRN Electronic Journal, 0, , .	0.4	3
113	Brief Communication: Impact of Sign Panel Luminance on Visual Comfort. Interdisciplinary Journal of Signage and Wayfinding, 2019, 3, 3-7.	0.8	3
114	Subjective Color Preferences of Common Road Sign Materials Under Headlamp Bulb Illumination. , 0, , .		2
115	Visual Recovery and Discomfort Following Exposure to Oncoming Headlamps. SAE International Journal of Passenger Cars - Mechanical Systems, 2009, 2, 745-749.	0.4	2
116	Public Perceptions of Vehicle Headlamps: Visibility and Glare. , 2011, , .		2
117	Efficacy of wipers-on, headlamps-on legislation. Safety Science, 2012, 50, 575-578.	2.6	2
118	Headlamp Levelness and Glare: Preliminary Analyses Based on Field Data. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 6, 770-774.	0.4	2
119	Impacts of Dynamic Rear Lighting on Driver Response. , 0, , .		2
120	LEDs in automotive lighting. , 2014, , 595-605.		2
121	High visibility reflective sign sheeting materials: field and computational evaluations of visual performance. Transport, 2018, 33, 344-352.	0.6	2
122	Driver Behavior in Response to Flashing Lights. Transportation Research Record, 2019, 2673, 703-708.	1.0	2
123	Output Reduction over Time of Germicidal UV-C Lamps Used for Treating Agricultural Crops. LEUKOS - Journal of Illuminating Engineering Society of North America, 2022, 18, 438-446.	1.5	2
124	Influence of Intensity, Duration and Spectral Characteristics on Glare Recovery for Peripheral Visibility. , 0, , .		2
125	The Effect of Glare on Visual Performance Under Reduced Headlamp Illumination. , 2005, , .		1
126	Onset Times and Detection of Colored Signal Lights. Transportation Research Record, 2005, 1918, 123-127.	1.0	1



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127	Rear Signal Lighting: From Research to Standards, Now and in the Future. , 0, , .		1
128	Effect of Dynamic Lighting Conditions on Visual Detection. , 0, , .		1
129	Ecoluminance: A New Approach to Visual Guidance for Roadways. International Journal of Sustainable Transportation, 2013, 8, 127-150.	2.1	1
130	Aviation-Related Light-Emitting Diode (LED) Perception Research. Aviation, Space, and Environmental Medicine, 2013, 84, 876-878.	0.6	1
131	Understanding the Safety Effects of Vehicle Lighting Through Naturalistic Driving Data. , 0, , .		1
132	Intelligent Warning Lights and Driving Safety. , 2015, , .		1
133	Indirect Detection of Visual Signals for Emergency Notification. Fire Technology, 2016, 52, 1427-1444.	1.5	1
134	LEDs and automotive lighting applications. , 2018, , 647-658.		1
135	73â€: <i>Invited Paper:</i> Are Displays Giving Us the Blues?. Digest of Technical Papers SID International Symposium, 2020, 51, 1098-1101.	0.1	1
136	A Metabolicâ€“Transcriptional Network Links Sleep and Cellular Energetics in the Brain. , 2014, , 245-264.		1
137	INTEGRATING RESEARCH ON SAFETY PERCEPTIONS UNDER PARKING LOT ILLUMINATION. , 2019, , .		1
138	Temporal Aspects of Lighting: A Study on Detection and Acceptance during Starting. Journal of Light and Visual Environment, 2007, 31, 19-24.	0.2	1
139	A Novel Barricade Warning Light System Using Wireless Communications. , 0, , .		1
140	INVESTIGATION OF STROBOSCOPIC EFFECTS FROM CHROMATIC FLICKER. , 2019, , .		1
141	Influence of Background Spectral Distribution on Perceptions of Discomfort Glare. , 0, , .		1
142	Influence of Foreground Illumination from Headlamps on Visibility and Preference. , 2009, , .		0
143	Many facets of light pollution. Physics Today, 2010, 63, 8-10.	0.3	0
144	Visual Display Effectiveness at Mesopic Luminances. Journal of Display Technology, 2011, 7, 167-169.	1.3	0

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145	Effect of different colored background lighting on LED discomfort glare perception. , 2012, , .		0
146	Photometry, Colorimetry and Radiometry: Issues and Applications. Journal of Modern Optics, 2013, 60, 1099-1099.	0.6	0
147	Development of a Guide for Replacement of Roadway Lighting with New Lighting Technologies. Transportation Research Record, 2013, 2384, 95-101.	1.0	0
148	Opinion: Will road lighting wither?. Lighting Research and Technology, 2017, 49, 672-672.	1.2	0
149	Investigating the Influence of Headlight Glare and Aim on Risk-Related Driving Behavior. , 0, , .		0
150	Influence of Oncoming Light Exposure on Safety Outcomes in a Naturalistic Driving Study. , 0, , .		0
151	14â€²: Dynamic Peripheral Communication for Advanced Automotive Applications. Digest of Technical Papers SID International Symposium, 2019, 50, 180-183.	0.1	0
152	Intelligent Vehicle Lighting: Impacts on Visual Perception of Drivers Varying in Age. , 0, , .		0
153	Road Lighting. , 2012, , 1-7.		0
154	Road Lighting. , 2016, , 1127-1132.		0
155	Spectral Considerations for Transportation Lighting Systems. , 2017, , .		0
156	INFLUENCE OF LIGHT LEVELS ON VISIBILITY FOR SAFETY AT AUTOMATED TELLER MACHINE FACILITIES. , 2019, , .		0
157	Brief Communication: Impact of Sign Character Aspect Ratio on Legibility. Interdisciplinary Journal of Signage and Wayfinding, 2019, 3, 8-11.	0.8	0
158	Road Lighting. , 2020, , 1-6.		0
159	ASSESSING THE VISIBILITY OF RAISED PAVEMENT MARKERS AND ALTERNATIVE FORMS OF DELINEATION. Transport, 2020, 35, 98-107.	0.6	0