Biswanath Roy

List of Publications by Year
in descending order

32 papers	109 citations	1683354 5 h-index	1588620 8 g-index
32 all docs	32 docs citations	32 times ranked	68 citing authors

#	Article	IF	Citations
1	Development of Dynamic Light Controller for Variable CCT White LED Light Source. LEUKOS - Journal of Illuminating Engineering Society of North America, 2015, 11, 209-222.	1.5	12
2	Optimization of luminaire layout to achieve a visually comfortable and energy efficient indoor general lighting scheme by Particle Swarm Optimization. LEUKOS - Journal of Illuminating Engineering Society of North America, 2021, 17, 91-106.	1.5	12
3	Evaluation of a daylight-responsive, iterative, closed-loop light control scheme. Lighting Research and Technology, 2020, 52, 257-273.	1.2	8
4	Design of an off-axis freeform diversity receiver to improve SINR performance of a multi-cell VLC system. Optics Communications, 2022, 510, 127937.	1.0	7
5	Signal to interference plus noise ratio improvement of a multi‐cell indoor visible light communication system through optimal parameter selection complying lighting constraints. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4291.	2.6	6
6	Indoor lighting optimization: a comparative study between grid search optimization and particle swarm optimization. Journal of Optics (India), 2019, 48, 429-441.	0.8	5
7	Correlating Indian measured sky luminance distribution and Indian Design clear sky model with five CIE Standard clear sky models. Journal of Optics (India), 2011, 40, 150-161.	0.8	4
8	Adaptive dimming scheme based daylight pipe integrated indoor lighting system under Perez All-weather sky model. , 2016, , .		4
9	Evaluation of a light controller for a LED-based dynamic light source. Lighting Research and Technology, 2018, 50, 571-582.	1.2	4
10	Adaptation luminance variation under lamps of different spectral compositions with variable surrounding luminance effects. Journal of Optics (India), 2019, 48, 527-538.	0.8	4
11	Design, Development and Practical Realization of a VLC Supportive Indoor Lighting System. Light & Engineering, 2020, , 87-97.	0.1	4
12	Development and simulation of dynamic conductance based wattage-independent Compact Fluorescent Lamp model in high frequency environment. , 2016, , .		3
13	Development & simulation of dynamic conductance based high intensity discharge lamp model driven by low frequency square wave electronic ballast. , 2016, , .		3
14	Stability analysis of a universal LED driver. , 2017, , .		3
15	Universal control algorithm for automatic current regulated LED driver. International Journal of Power Electronics, 2020, 12, 169.	0.1	3
16	Electrical model formulation for multicolor light‐emitting diode modules and its application to design dimmable driver. International Journal of Circuit Theory and Applications, 2021, 49, 1559-1582.	1.3	3
17	An approach to ensure joint illumination & communication performance of a forward error corrected indoor visible light communication (VLC) system in presence of ambient light interference. Journal of Optical Communications, 2024, 44, s1767-s1776.	4.0	3
18	Application of Perez Daylight Efficacy Model for Kolkata. Journal of the Institution of Engineers (India): Series B, 2015, 96, 339-348.	1.3	2

#	Article	IF	Citations
19	Performance analysis of fluorescent and led lamp system. , 2016, , .		2
20	Development and Performance Assessment of White LED Dimmer. Journal of the Institution of Engineers (India): Series B, 2017, 98, 461-466.	1.3	2
21	Design topology based comparative study on electric and photometric parameters of commercially available led lamp systems. , 2017, , .		2
22	A Fault-Detecting and Motion-Sensing Wireless Light Controller for LED Lighting System. , 2020, , .		2
23	Multi-parameter optimization of a hemispheric angle diversity receiver to reduce SINR fluctuation for an indoor MIMO-VLC system. , 2021, , .		2
24	Estimation of Mesopic Adaptation Luminance under Different Surrounding Lighting Ambience. , 2020, , .		2
25	Interreflection Calculation under Daylight by Monte Carlo Method. Journal of Optics (India), 2002, 31, 95-104.	0.8	1
26	Design and development of daylight responsive RF light controller. , 2017, , .		1
27	Application of developed wattage independent CFL model for design and evaluation of voltage dimmable electronic ballast. , 2017, , .		1
28	Wattage-independent dynamic conductance model of compact fluorescent lamps: Validation and application in high-frequency operation. Lighting Research and Technology, 2018, 50, 1107-1123.	1.2	1
29	A design methodology for acoustic resonance-free, high-frequency, dimmable electronic ballast for high-pressure sodium-vapour lamps. Lighting Research and Technology, 2020, 52, 524-539.	1.2	1
30	Effect Of Chromaticity Of Surrounding Light Sources on Mesopic Adaptation Luminance. Light & Engineering, 2021, , 30-38.	0.1	1
31	Universal control algorithm for automatic current regulated LED driver. International Journal of Power Electronics, 2020, 12, 169.	0.1	1
32	A Generalized Dynamic Conductance Model for High Intensity Discharge Lamps and its Prospective Application to Design Dimmable Electronic Ballast. Light & Engineering, 2021, , 59-71.	0.1	0