

Biswanath Roy

List of Publications by Year in Descending Order

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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.

25
papers

51
citations

3
h-index

6
g-index

32
ext. papers

84
ext. citations

1.6
avg, IF

3.03
L-index

#	Paper	IF	Citations
25	Design of an off-axis freeform diversity receiver to improve SINR performance of a multi-cell VLC system. <i>Optics Communications</i> , 2022 , 510, 127937	2	0
24	A Generalized Dynamic Conductance Model for High Intensity Discharge Lamps and its Prospective Application to Design Dimmable Electronic Ballast 2021 , 59-71		
23	Signal to interference plus noise ratio improvement of a multi-cell indoor visible light communication system through optimal parameter selection complying lighting constraints. <i>Transactions on Emerging Telecommunications Technologies</i> , 2021 , 32, e4291	1.9	1
22	Optimization of luminaire layout to achieve a visually comfortable and energy efficient indoor general lighting scheme by Particle Swarm Optimization. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2021 , 17, 91-106	3.5	8
21	Electrical model formulation for multicolor light-emitting diode modules and its application to design dimmable driver. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 1559-1582	2	0
20	Effect Of Chromaticity Of Surrounding Light Sources on Mesopic Adaptation Luminance 2021 , 30-38		0
19	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. <i>Journal of Optical Communications</i> , 2020 ,	1.2	1
18	Design, Development and Practical Realization of a VLC Supportive Indoor Lighting System 2020 , 87-97		2
17	A design methodology for acoustic resonance-free, high-frequency, dimmable electronic ballast for high-pressure sodium-vapour lamps. <i>Lighting Research and Technology</i> , 2020 , 52, 524-539	2	1
16	Universal control algorithm for automatic current regulated LED driver. <i>International Journal of Power Electronics</i> , 2020 , 12, 169	0.2	1
15	Evaluation of a daylight-responsive, iterative, closed-loop light control scheme. <i>Lighting Research and Technology</i> , 2020 , 52, 257-273	2	4
14	Adaptation luminance variation under lamps of different spectral compositions with variable surrounding luminance effects. <i>Journal of Optics (India)</i> , 2019 , 48, 527-538	1.3	2
13	Indoor lighting optimization: a comparative study between grid search optimization and particle swarm optimization. <i>Journal of Optics (India)</i> , 2019 , 48, 429-441	1.3	2
12	Evaluation of a light controller for a LED-based dynamic light source. <i>Lighting Research and Technology</i> , 2018 , 50, 571-582	2	3
11	Wattage-independent dynamic conductance model of compact fluorescent lamps: Validation and application in high-frequency operation. <i>Lighting Research and Technology</i> , 2018 , 50, 1107-1123	2	1
10	Development and Performance Assessment of White LED Dimmer. <i>Journal of the Institution of Engineers (India): Series B</i> , 2017 , 98, 461-466	0.9	1
9	Stability analysis of a universal LED driver 2017 ,		2

8	Design topology based comparative study on electric and photometric parameters of commercially available led lamp systems 2017 ,		2
7	Adaptive dimming scheme based daylight pipe integrated indoor lighting system under Perez All-weather sky model 2016 ,		2
6	Development & simulation of dynamic conductance based high intensity discharge lamp model driven by low frequency square wave electronic ballast 2016 ,		2
5	Performance analysis of fluorescent and led lamp system 2016 ,		1
4	Application of Perez Daylight Efficacy Model for Kolkata. <i>Journal of the Institution of Engineers (India): Series B</i> , 2015 , 96, 339-348	0.9	2
3	Development of Dynamic Light Controller for Variable CCT White LED Light Source. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2015 , 11, 209-222	3.5	8
2	Correlating Indian measured sky luminance distribution and Indian Design clear sky model with five CIE Standard clear sky models. <i>Journal of Optics (India)</i> , 2011 , 40, 150-161	1.3	3
1	Interreflection Calculation under Daylight by Monte Carlo Method. <i>Journal of Optics (India)</i> , 2002 , 31, 95-104	1.3	1