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Solid State Lighting/LED lighting, with Reliability Analysis and Smart Sustainable energy solutions

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Area of Interest:

Solid state lighting, Power electronics, Sustainability and smart solutions, Reliability study and analysis

Technical Publications:

Journals:

1. A. N. Padmasali and S. G. Kini, "Lifetime Color Consistency Analysis of Cool-White LED Luminaires for General Applications", IEEE Transactions on Electron Devices vol. 68, no. 11, pp. 5634-5639, Nov. 2021. (Scoups and WoS, Q1, IF: 2.91)
2. Padmasali, A. and Kini, S. "Experimental investigation and empirical modelling of thermal and drive current effect on optical performance of commercial LEDs", Lighting Research and Technology, vol. 53, no.6, pp. 581-593, Oct. 2021. (Scoups and WoS, Q1, IF: 2.68)
3. A. N. Padmasali and S. G. Kini, "Accelerated Testing Based Lifetime Performance Evaluation of LEDs in LED Luminaire Systems," IEEE Access, vol. 9, no. 7, pp. 137140-137147, 2021. (Scoups and WoS, Q1, IF: 3.37)
4. A. N. Padmasali and S. G. Kini, "A generalized methodology for predicting the lifetime performance of LED Luminaire," IEEE Transactions on Electron Devices, vol. 67, no. 7, pp. 2831-2836, July. 2020. (Scoups and WoS, Q1, IF: 2.91)
5. A. N. Padmasali and S. G. Kini, "Accelerated Degradation Test Investigation for Life-time Performance Analysis of LED Luminaires," IEEE Transactions on Components, Packag. Manuf. Technol, vol. 10, no. 4, pp. 551-558, April 2020. (Scoups and WoS, Q1, IF: 1.922)
6. A. N. Padmasali and S. G. Kini, "A Lifetime Performance Analysis of LED Luminaires Under Real-Operation Profiles," IEEE Transactions on Electron Devices, vol. 67, no. 1, pp. 146-153, Jan. 2020. (Scoups and WoS, Q1, IF: 2.91)
7. Padmasali, A. and Kini, S. "A generalised approach for the estimation of junction temperature and its effect on light output", Lighting Research and Technology, vol. 52, no. 2, pp. 274-291, 2020. (Scoups and WoS, Q1, IF: 2.68)
8. Padmasali, A. and Kini, S. "A novel measure to analyse the reliability of LED luminaires", Lighting Research and Technology, vol. 51, no. 5, pp.1063-1076, 2019. (Scoups and WoS, Q2, IF: 2.31)
9. Padmasali, A. N., Noronha, J. E. and Kini, S. G. "The effect of capacitance on drive current of general lighting LED luminaires", Lighting Research and Technology, vol. 50, no. 8, pp. 1270-1281, 2018. (Scoups and WoS, Q2, IF: 2.31)

10. Padmasali.AN, Kini.SG, “LED life prediction based on lumen depreciation and colour shift”, *Lighting Research and Technology*. vol. 49, no. 1, pp. 84-99, 2017. (Scopus and WoS, Q2, IF: 2.31)
11. Padmasali.AN, Kini.SG, “Prognostic algorithms for L70 life prediction of solid state lighting”, *Lighting Research and Technology*. vol. 48, no. 5, pp. 608-623, 2016. (Scopus and WoS, Q2, IF: 2.31)
12. Chandrasekhar, Boyapati and Padmasali, Anjan “Modelling of 200W LED Driver Circuit Design with LLC Converter.”, *Journal for Research*, 2 (2). pp. 1-7, 2016.

Conference:

1. Anjan N. Padmasali, Shlok Kewalramani, Dorbala Anirudha Sharma, Savitha G. Kini, “Thermal Analysis of Light Emitting Diode Downlighters”, 4th IEEE International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), May 17-18, 2019, India.
2. Anjan N. Padmasali and Savitha G. Kini, “Experimental Investigation on Thermal-Optical-Current Characteristics of Commercial Light Emitting Diodes”, Third IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Aug 11-12 2019, India.
3. Prathvi Nayak, Anjan N Padmasali, Savitha G Kini, “Life Estimation of High-Power LED Using Distribution Based Reliability Analysis”, IEEE International Conference on Recent Trends In Electronics Information Communication Technology, May 19-20, 2017, India.
4. Ishika Chakrabarty, Anjan N Padmasali, Savitha G Kini, “Reliability Estimation of Solid State Luminaires using Design of Experiments”, IEEE International Conference on Recent Trends In Electronics Information Communication Technology, May 19-20, 2017, India.
5. Himanshu, Anjan Padmasali, Adarsh S, “Comparative Analysis of Non-Isolated DC-DC converter for LED Luminaire” AECT national Conference-Jan 2016.

Journal Reviewer:

- IEEE Transactions on Power Electronics,
- IEEE Transactions on Industrial Electronics,
- IEEE Access,
- IEEE Electron Device Letters,
- Lighting Research and Technology etc.