Special Issue

LED Lighting Systems with Luminous Flux and Color Control

Message from the Guest Editors

The design of this type of system covers multiple disciplines, including, among others, power electronics, instrumentation, colorimetry and control system design. Potential topics of this Special Issue include, but are not limited to, the following:

- Optimized power topologies for supplying LED lamps with color control (multi-output converters, post-regulators for current control in LED lamps, integrated stages with multiple output, etc.);
- Instrumentation for measuring the level and quality of light in lighting systems (distributed lighting measurement systems, optimized design of light color sensing systems, etc.);
- Optimization of the color spectrum and light quality of LED lamps (optimization of the light emission spectrum of multi-chip LED lamps, circadian lighting, flicker minimization, color deviation correction techniques, etc.);
- Closed-loop control of adjustable color LED lighting systems (advanced digital control applied to lighting systems, algorithms for the control of lighting systems with multiple sensors and lamps, etc.);
- Optimization of energy use in LED lighting systems.

Guest Editors

Dr. Javier Ribas

Electrical Engineering Department, University of Oviedo, 33204 Gijon, Spain

Dr. Pablo José Quintana-Barcia

Department of Electrical, Electronic, Communications and Systems Engineering, University of Oviedo, 33003 Oviedo, Spain

Deadline for manuscript submissions

closed (15 September 2023)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/122868

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/journal/electronics

About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

MDPI