

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.



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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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

