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Halide Perovskite-Inspired Optoelectronics

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Deadline for manuscript submissions:

closed (29 February 2024)

Message from the Guest Editors

Dear Colleagues,

Perovskite-inspired materials (PIMs). both threedimensional perovskite derivatives, namely, Sn(II) halide perovskites and halide elpasolites, and electronic analogs (i.e., zero-, one-, and two-dimensional metal halides comprising cations such as Ag+, Na+, Bi3+, Sb3+, In3+, Sn4+, and Ti⁴⁺) have emerged as low-toxic alternatives to LHPs. Yet, the performance of PIMs in photovoltaics, lightemitting diodes, and other optoelectronics is far inferior to that of LHPs, which has been attributed to their low high photoluminescence auantum vields. concentration, suboptimal thin film morphology, and poor selection of charge transport layers in the corresponding devices.

This Special Issue will focus on the synthesis, photophysics, and material and device engineering of lead-free PIMs for an improved understanding of the fundamental aspects, enhanced device performance, and the discovery of unexplored applications.

You can submit your paper at the following link: https://www.mdpi.com/si/181599

Dr. Paola Vivo Guest Editor

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Message from the Editor-in-Chief

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