

Special Issue

Recent Progress in Current Natural and Bioinspired Sensors

Message from the Guest Editors

The utilization of natural and nature-derived dyes with sensing properties has garnered significant attention due to their eco-friendly nature, biocompatibility, and diverse application fields. This Special Issue is devoted to recent advancements in this topic, encompassing the synthesis, characterization, and applications of these materials. Its authors should demonstrate the exploration of new sensors from natural sources, covering novel extraction methods for obtaining natural dyes from various sources. Furthermore, the synthesis and characterization of bioinspired analogs from natural compounds are also considered in this Special Issues. In any case, the dyes and sensors should have a biotechnological application, from bioimaging to food (bio)sensors. This Special Issue provides a comprehensive overview of the recent progress in the field of natural and nature-derived dyes and sensors, offering insights into their synthesis, characterization, and applications.

Guest Editors

Dr. Raquel Nunes da Silva

LAQV-REQUIMTE, Department of Chemistry and Biochemistry, Faculty of Sciences, University of Porto, Rua do Campo Alegre s/n, 4169-007 Porto, Portugal

Dr. Luis Cruz

LAQV-REQUIMTE, Department of Chemistry and Biochemistry, Faculty of Sciences, University of Porto, 4169-007 Porto, Portugal

Deadline for manuscript submissions

closed (31 July 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/208343

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls-ci@mdpi.com

mdpi.com/journal/

appls-ci





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

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

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)