





an Open Access Journal by MDPI

# **Plasmonics Technology in Surface Science**

Guest Editor:

### **Dr. Keith Sanders**

Department of Electrical and Computer Engineering, Rice University, Houston, TX, USA

Deadline for manuscript submissions:

30 November 2025

## **Message from the Guest Editor**

Plasmonic technology, which exploits the interactions between electromagnetic fields and free electrons in metal nanostructures, has become a cornerstone in advancing surface science. The resonant oscillations of conduction electrons, known as surface plasmon resonances (SPRs), enable unprecedented control over light at the nanoscale, far beyond the diffraction limit of conventional optics. This capability has profound implications in various fields such as sensing, imaging, and information processing. In surface science, plasmonic phenomena can be leveraged to enhance surface reactions, improve the sensitivity of surface-based sensors, and manipulate molecular-scale interactions. Understanding and utilizing plasmonic effects in conjunction with surface phenomena is crucial for developing advanced technologies in areas like energy harvesting, catalysis, and biomedical applications. As such, the study of plasmonics in surface science is not only scientifically rich but also technologically essential, bridging nanophotonics and surface chemistry to address some of the most pressing challenges in modern material science and engineering.







IMPACT FACTOR 2.9



an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Gaetano Granozzi

Department of Chemical Science, Universita degli Studi di Padova, Padua, Italy

## **Message from the Editor-in-Chief**

Surfaces and interfaces are ubiquitous, and their relevance in Chemistry, Physics, Catalysis, Materials Science & Engineering, Nanoscience, Biology and Nanomedicine is nowadays well acknowledged. Similarly, surfaces cannot be neglected when targeting applications in many strategic fields, such as sensors, energy conversion and storage, environmental and food science, and medical devices.

Surfaces is a new Open Access journal that will provide rapid publication of scholarly articles on studies related to surfaces and interfaces. Its mission is to publish cutting edge articles and conference proceedings and organizing special issues to highlight outstanding research on specific topics, encouraging the application of a rigorous Surface Science-based approach to many complex interesting phenomena and breaking boundaries among different disciplines.

### **Author Benefits**

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

**High Visibility:** indexed within ESCI (Web of Science), Scopus, Inspec, CAPlus / SciFinder, and other databases.

**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

### **Contact Us**