

## Special Issue

# Anatase Chemistry, Nanostructures and Functionalities

### Message from the Guest Editor

The last few years have witnessed a great rate of technological advancement in the synthesis of anatase. Regardless of the specific fabrication technique, all anatase samples—for example, thin films, crystals, and powders—have in common that their functional properties strongly depend on chemical and phase composition, crystalline structure, presence of defects, interface properties, and surface-related properties. The capability to control and tune the structural properties of anatase has given an enormous boost toward the understanding on fundamental properties of anatase but also to engineer heterostructures with desired properties. This Special Issue aims to collect original research articles as well as review articles featuring the latest achievements and developments in fabrication and processing of anatase as well as in the characterization of their structural, electronic and functional properties. Subject areas include (but are not limited to) anatase thin films fabrication and processing, theory and simulation, anatase nanostructure and properties, device applications.

---

### Guest Editor

Dr. Regina Ciancio  
CNR-IOM, 34149 Trieste, Italy

---

### Deadline for manuscript submissions

closed (20 August 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/81163](https://mdpi.com/si/81163)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

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

[applsci](https://doi.org/10.3390/applsci)





# 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, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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