Special Issue

Density Functional Theory (DFT) of Two-Dimensional Materials

Message from the Guest Editors

Density functional theory (DFT) has become one of the most important tools for the theoretical study of materials, including for the most part their electronic structure, as well as their structural, mechanical, magnetic, and other properties. Moreover, it has become a strong tool for the theoretical prediction of materials.

This Special Issue of Crystals "Density Functional Theory (DFT) of Two-Dimensional Materials", aims to become a collection of original research articles utilizing DFT calculations for the study of 2D materials and their properties. We kindly invite contributions to this Special Issue on a wide range of topics, including, but not limited to, the following:

Theoretical discovery of novel 2D materials with exotic properties;

Structural, mechanical, electronic, magnetic, optical, and transport properties of 2D materials;

Nanoflakes and nanoribbons of 2D materials;

Edge properties of 2D materials;

The effect of structural distortions or doping on 2D materials' properties;

Surface reactivity;

Applications of 2D materials for energy or environmental applications;

One-dimensional and three-dimensional materials based on 2D structures.

Guest Editors

Dr. Zacharias G. Fthenakis

Istituto Nanoscienze-CNR, Piazza San Silvestro 12, 56127 Pisa, Italy

Dr. Nektarios N. Lathiotakis

Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, 48 Vassileos Constantinou Ave., 11635 Athens, Greece

Deadline for manuscript submissions

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Crystals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
crystals@mdpi.com

mdpi.com/journal/ crystals





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About the Journal

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, Pl, Italy

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