

Special Issue

Novel Advances in Nuclear Magnetic Resonance (NMR) for Materials Science

Message from the Guest Editors

NMR is a powerful experimental technique that can be applied to solids and solutions in order to resolve details of the structure, chemical speciation, and species interactions occurring in materials. This non-destructive technique covers a wide range of applications not only in the basic sciences of chemistry, biology, and physics, but also in the fields of geology, medicine, health, and industry. Indeed, the presence of NMR active nuclei such as ^1H , ^{13}C , ^{19}F , ^{27}Al , ^{29}Si , and ^{31}P in all materials makes the application of NMR spectroscopy so popular. Crucial information is obtained about the molecular and electronic structure of the system from the NMR chemical shift, the resonant frequency of a particular nucleus relative to a standard in an NMR spectrum. In this Special Issue, we invite submissions exploiting NMR spectroscopy focusing the state-of-the-art applications of NMR experiments, both solution and solid state, in the fields of material sciences. Review papers about applications of NMR in general or any particular area are also welcome.

Guest Editors

Dr. Nasima Kanwal

School of Chemistry, University of St Andrews, St Andrews, UK

Dr. Natalia Karpukhina

Institute of Dentistry, Barts and The London School of Medicine and Dentistry, Queen Mary University of London, London, UK

Deadline for manuscript submissions

closed (30 November 2021)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/69759

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

mdpi.com/journal/

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