



## Advances in Cuprates and Iron-Based Superconductors: Physics, Properties, and Applications

Guest Editors:

**Dr. Armando Galluzzi**

Department of Physics “E.R.  
Caianiello”, University of Salerno,  
Via Giovanni Paolo II, 132, I-84084  
Fisciano, Salerno, Italy

**Dr. Massimiliano Polichetti**

Department of Physics “E.R.  
Caianiello”, University of Salerno,  
Via Giovanni Paolo II, 132, I-84084  
Fisciano, Salerno, Italy

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### Message from the Guest Editors

The discovery of superconductivity in cuprates was received with great enthusiasm due to the fact that  $T_c$  can exceed the temperature of liquid nitrogen in many cases. Nevertheless, due to issues such as high anisotropy values, superconductor–insulator–superconductor (SIS) grain boundary junction, etc., materials like YBCO or BSCCO have never been fully exploited for superconductivity power applications. Nevertheless, the interest in these materials has always existed. Furthermore, despite having a lower  $T_c$  than cuprates, iron-based superconductors (IBSs) exhibit higher  $J_c$  and  $H_{c2}$  values along with lower values of anisotropy and superconductor–normal–superconductor (SNS) grain boundary junction, and thus have been proposed as a valid alternative to cuprates.

For more details, please see the Special Issue website at:

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Dr. Armando Galluzzi  
Dr. Massimiliano Polichetti  
*Guest Editors*





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### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

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Materials Editorial Office  
MDPI, St. Alban-Anlage 66  
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