

Special Issue

Synthetic Metals 2019

Message from the Guest Editor

In present-day society, how could we live without our cellphone, tablet, or TV set? The discovery of doped polyacetylene in 1976, and the Nobel Prize awarded to A. Heeger, A. Mc Diarmid, and H. Shirakawa in 2000 showed the wide possibilities of the use of these semiconductors. These molecules or macromolecules, which have chemical structures of alternating single and double bonds, can be considered as synthetic metals. The development of these synthetic metals as active material, include their design, their synthesis, their deposition techniques, their nanoscale organization in order to fine-tune electronic, thermal, or mechanical properties, and their performances in devices. The aim of this Special Issue is to provide the most recent advances in the fundamental chemistry and the development of new organic semiconductors for “plastic electronic” applications. Papers and review articles dealing with organic pi-conjugated materials are invited for this Special Issue on “Synthetic Metals”.

Guest Editor

Dr. Bruno Schmaltz

Laboratoire de Physico-Chimie des Matériaux et des Electrolytes pour l'Energie (PCM2E), EA 6699, Faculté Sciences et Techniques, Parc de Grandmont, 37200 Tours, France

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

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About the Journal

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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