



Graphene-Metal Composite

Guest Editor:

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Deadline for manuscript
submissions:

closed (15 September 2019)

Message from the Guest Editor

Dear Colleagues,

The use of graphene as a direct support for small metal particles or hybrid-architecture materials has gained significant interest in the last 10 years. The two-dimensional structure of graphene provides unique electronic structure properties, which can be tuned or leveraged via interaction with adsorbed metal atoms or metal atom clusters. Application areas where this has seen rapid acceleration of research interest include: tailored catalysts, novel electronics, novel spintronics, biosensors, etc. The main themes invited for discussion in this Special Issue include, but are not limited to, the following:

1. Discoveries or challenges in the synthesis of metal-decorated-graphene composites
2. Ability to modify adsorption and properties of metal-decorated-graphene via dopants
3. Novel metal-decorated-graphene composite catalysts
4. Novel metal-decorated-graphene electronic or spintronic device applications
5. Theoretical screening of related materials (metal-decorated borophene)

Contributions from all disciplines and areas of expertise across industry, national research laboratories, and academia are encouraged and welcomed.



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Dr. R.B. Rankin
Guest Editor

Special Issue



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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.

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