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Research on Metallofullerenes

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Deadline for manuscript submissions:
closed (31 May 2024)

Message from the Guest Editors

Dear Colleagues,

The 40th anniversary of the first experimental observation of fullerenes in a laser-vaporized graphite cluster beam mass spectrum, made by H. W. Kroto, J. R. Heath, S. C. O'Brien, R. F. Curl, and R. E. Smalley (DOI:10.1038/318162a0), is approaching. It will be the anniversary not only for fullerenes and buckminsterfullerene in particular, but also for the first endohedral metallofullerene observed, La@C60, just a few days later (DOI:10.1021/ja00311a102). There was tremendous progress in the field since then documented by tens of thousands of publications: The production of fullerenes in macroscopic quantities, i.e., hundreds of observed and isolated new species, has influenced their characterization both experimentally and theoretically, reaching various applications as MRI and X-ray contrast agents, radiotracers, photovoltaic cells, nanoelectronics, superconductors, and others.

The field of metallofullerene research is on the top with hundreds of new publications each year; in this Special Issue on Metallofullerenes in Inorganics, on the chemical and physical properties of metallofulleres, studied both experimentally and theoretically, is thus very timely.

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Message from the Editor-in-Chief

Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

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