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Magnetic Methods in Metal–Organic Materials and Environmental Science

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Message from the Guest Editors

In recent years, various magnetic methods typical for characterization of standard magnetics have been recognized as an efficient research tool in the case of many other groups of materials. These include, among others, intentionally synthesized organometallic compounds (usually based on iron) and industrial side-products (such as fly ashes, air-borne particulate matter, and street dusts), recognized not only as pollutants but also as potential recycling materials. Several questions are crucial and still not entirely understood. In dealing with these problems, the magnetic methods—both standard and very specific—seem to be very helpful, such as thermal and frequency scanning of magnetic susceptibility, magneto-optics, magnetic hysteresis decomposition, Day–Dunlop diagrams, and first-order reversal curve (FORC) analysis. Moreover, a very good supplement to magnetic methods is iron-based Mössbauer spectrometry.





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Message from the Editor-in-Chief

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