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Selected Papers from XLII National Conference on Calorimetry, Thermal Analysis and Applied Thermodynamics

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Deadline for manuscript submissions:
closed (30 June 2022)

Message from the Guest Editors

This conference has a long tradition in providing a unique stage to young and distinguished researchers coming from different regions of Italy and from countries abroad to present the most recent developments and share ideas on a plethora of topics in the fields of thermal analysis and calorimetry, ranging from food to biocalorimetry, lifetime prediction of materials, cultural heritage, life science, polymer science, and pharmaceuticals. The official language is English, while the scientific common background is classical and applied thermodynamics, as suggested by the title of the conference. This Special Issue aims at collecting a valuable selection of contributions, favoring (but not limited to) those who provide significant insights into physico-chemical processes and a corresponding description of reaction mechanisms, the characterization of all kinds of phase transitions, innovative routes for thermal energy storage and energy conversion, and original approaches focused on applied thermodynamics with particular reference to the entropic contribution, following a classical and/or applied thermodynamic approach.

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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