

Special Issue

Matter-Aggregating Systems at a Classical vs. Quantum Interface

Message from the Guest Editors

Matter-aggregating systems, such as spin-involving (Ising, Potts, etc.), dipolar, percolating, or those prone to gelation and/or colloidal formations and self-assembly, to mention but a few, can be viewed as prerequisites of paradigmatic cluster/network formations, ranging from classical to quantum expositions.

The challenge of the proposed Special Issue lies in thoroughly exploring the matter-aggregational outcomes of any type for which a classical–quantum interface is going to readily emerge as it is—for example, in the case of low-dimensional (nano)structures or complex classical–quantum (also biopolymeric) networks in which entanglement and bond creation effects prevail.

The collected articles have to unambiguously show that the linkage between the classical and quantum formations is worth exploring and may become very practical from the point of view of modern quantum (nano)technologies, with an emphasis placed on the nanoscale as the sovereign physical border between classical and quantum realms.

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Editor-in-Chief

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