

Special Issue Reprint

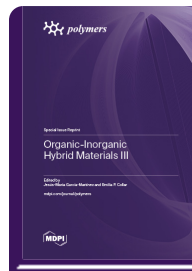
Organic-Inorganic Hybrid Materials III

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This reprint is dedicated to the captivating and intricate field of organic–inorganic hybrid materials. So, this third installment builds upon the success of the previous Special Issues and presents new original contributions and approaches to this topic. The papers included in this reprint align with the definition of hybrid materials recommended by the IUPAC (International Union of Pure and Applied Chemistry). This implies that a hybrid material comprises a close mixture of inorganic, organic, or both components, typically interpenetrating scales of less than one micrometer. In any case, it is well worth mentioning that functional hybrid materials are not just physical mixtures but also nanocomposites at the molecular scale, with at least one organic or inorganic component having a characteristic length on the nanometer scale. Consequently, the properties of hybrid materials are not just the sum of the individual contributions of their components but also arise from the strong synergy created by a hybrid interface. This synergy is a crucial aspect of hybrid materials, highlighting the unique properties that can be achieved through careful design. The works compiled in this book offer an excellent example of the current and future trends in organic–inorganic hybrid materials. These fourteen articles provide information and inspiration for future approaches in this fascinating scientific field.

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