



Hybrid Polymer-Inorganic Nanocomposite

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Message from the Guest Editors

Nanoparticles are gaining wider importance and increasing utility in many areas of engineering and technology. Hybrid materials are composites consisting at least of two constituents at the nanometer or molecular level. Commonly, one of these compounds is inorganic and the other one organic in nature. In a hybrid composite which contains two or more types of fibers, disadvantages of one type of fiber can be complemented by the other having consequent advantages. Nano composites are particle-filled polymers with at least one dimension of the dispersed particle in nanometer scale. Some important features of nano composites include mechanical performance, thermal stability, dielectric behavior, excellent tribological properties, and adhesion to most substrates, good corrosion and scratch resistance. Further understanding and research is required to solve the trade-offs between enhancement of some properties and suppression of others based on requirements of application. A compilation of research in the area of Nanocomposite hybrid materials would provide necessary background information to interested researchers.





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