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Multiscale Analysis of Polymer Nanocomposites

Guest Editors:

Dr. Tien-Thinh Le
1. Laboratoire Modélisation et Simulation Multi Echelle, Université Paris-Est, MSME UMR 8208 CNRS, 5 bd Descartes, 77454 Marne-la-Vallée, France
2. Faculty of Mechanical Engineering and Mechatronics, Phenikaa University, Hanoi, Vietnam

Dr. Goshtasp Cheraghian
Civil Engineering and Environmental Science, Technische Universität Braunschweig, 38106 Braunschweig, Germany

Message from the Guest Editors

Polymer nanocomposites are heterogeneous materials, exhibiting novel multi-physical phenomena that are linked to interactions at the smallest scales. These interactions cause significant alterations of the local physical properties – in particular, of the matrix phase (for instance, transition and/or modification of phase, specific conformation, modification of the degree of crystallinity for an organic polymer matrix, etc.). For such nano-reinforced materials, interactions at small scales (between nanofillers and the matrix, or between different nanofillers) are no longer negligible and must be interpreted and modeled in a multi-scale framework.

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