

Special Issue

The Chemical Immobilization and Inactivation of SARS-CoV-2

Message from the Guest Editor

The present Special Issue aims to provide an update on the synthesis of stable antiviral agents and their implementation in polymers to get bioactive materials which will limit the proliferation of SARS-CoV-2. The surface of SARS-CoV-2 is covered by glycosylated S proteins, which are crucial to the viral life cycle. Therefore, these proteins are potential targets for active substances that can effectively immobilize and inactivate the virus. The formation of covalent or ionic bonds, sequestration, and intermolecular interactions play a fundamental role in the immobilization and inactivation of viruses. The introduction of bioactive substances to natural or synthetic polymers (PP, PLA, PANI, NNMO cellulose, chitosan) by electrospinning, melt-blowing, or other techniques will make it possible to obtain construction materials for protective clothing, masks, curtains, packaging materials, and protective layers forming a barrier to the virus.

Guest Editor

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Message from the Editor-in-Chief

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