



Application of Metal Containing Polymers

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Message from the Guest Editors

Dear Colleagues,

Metal-containing polymers, also named organometallic polymers or metallopolymers, are a class of polymers that can contain a variety of metal centers from the main group to transition metals and lanthanides. Furthermore, metal centers can be located either in the side group of the polymer or at the chain ends. The targeted design of metal, ligand, and spacer group combinations and variations in polymeric architectures allows precise functions of the material for a variety of different applications. With the incorporation of metal complexes into polymers, the advantageous properties of polymers (e.g., targeted molar masses, functional groups, different polymeric architectures, processability, easy scale-up) are combined with those of metal complexes including catalytic activity, electronic and optical properties, or biomedical potential. Thus, applications areas of metal-containing polymers are versatile and extend from catalysis and self-healing materials to conductive materials or nanoscience.





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