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Functional Polymeric Materials for Electrical Insulation Application

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Message from the Guest Editors

As the keystone of electrical insulation systems, functional polymeric materials play a leading role in the upgrading of electrical and electronic equipment in the field, including new power systems, microelectronics, and aerospace. With the development of electrical equipment towards large capacity, high voltage, and high-power density, the insulation system of electrical and electronic equipment must withstand serious electric-field distortion, highertemperature operating conditions and great mechanical stress. Functional polymeric materials with high dielectric strength, high thermal conductivity, high electric-corrosion resistance, non-linear conductance, self-healing ability, etc., provide effective solutions to meet these new requirements. This Special Issue intends to discuss the design, preparation, dielectric properties, testing methods, failure mechanism, and application of functional polymeric materials for electrical insulation. It aims to help all potential readers further understand all aspects in this field.













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Message from the Editor-in-Chief

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