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Multi-Functional Smart Dielectric Materials for High Voltage Insulation

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Message from the Guest Editors

Smart materials based on nano-dielectrics are actively synthesizing and implementing recently such as submarine cable using XLPE doped with MgO, DC cables using PE with carbon black as an insulation, hydro-generator insulation using nano-silica, motor insulation using hybrid organic-inorganic nano-insulation. The European program Horizon 2020 has deployed nanomaterials to replace crosslinked technology for HV cables.

This Special Issue aims to provide a platform reporting research advances in smartly designed dielectric materials. Hence, this topic is open to both natural and applied sciences subjects used to apply existing scientific knowledge to develop more practical applications, for example in technology and inventions. The scientific publications related to new and existing smartly structured polymer-based materials synthesis process and their characterization in electric power industry are welcome.













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Message from the Editor-in-Chief

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