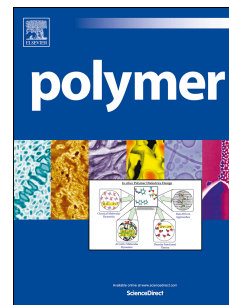


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Pickering emulsion polymerization of poly(ionic liquid)s encapsulated nano-SiO₂ composite particles with enhanced electro-responsive characteristic

Jia Zhao, Yang Liu, Chen Zheng, Qi Lei, Yuezhen Dong, Xiaopeng Zhao, Jianbo Yin



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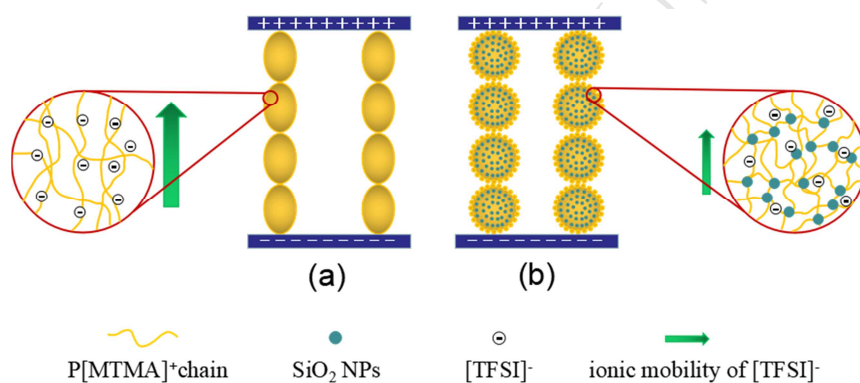
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Graphic abstract

Poly(ionic liquid)s encapsulated nano-SiO₂ composite particles were synthesized by a Pickering emulsion polymerization, which showed enhanced electro-responsive electrorheological effectiveness and temperature stability because nano-SiO₂ could act as cross-linking points to restrain thermally promoted segment relaxation of poly(ionic liquid)s and improve the activation energy of ion transport.



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