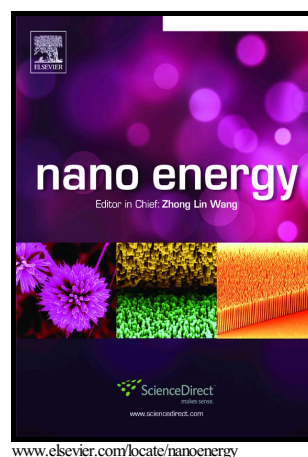


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BaTiO₃ nanocrystal-mediated micro pseudo-electrochemical cells with ultrasound-driven piezotronic enhancement for polymerization

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Abstract

Conventional electrochemical polymerization is performed on electrodes driven by a direct current power source. It is impossible to realize an electrochemical polymerization reaction on the surfaces of individual nanocrystals in an aqueous system due to the difficulty of connecting all of the nanocrystals to a power source with wires or with the aid of microfabrication, especially in the environment of liquid. In this work, a micro pseudo-electrochemical polymerization reaction was proposed for *in situ* synthesis of

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