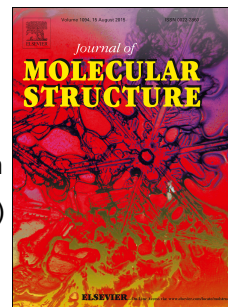


Accepted Manuscript

Anisotropic dielectric phase transition triggered by pendulum-like motion coupled with proton transfer in a layered hybrid crystalline material (4-nitroanilinium⁺) (18-crown-6) (H₂PO₄⁻) (H₃PO₄)₂



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PII: S0022-2860(18)30399-5

DOI: [10.1016/j.molstruc.2018.03.102](https://doi.org/10.1016/j.molstruc.2018.03.102)

Reference: MOLSTR 25041

To appear in: *Journal of Molecular Structure*

Received Date: 24 December 2017

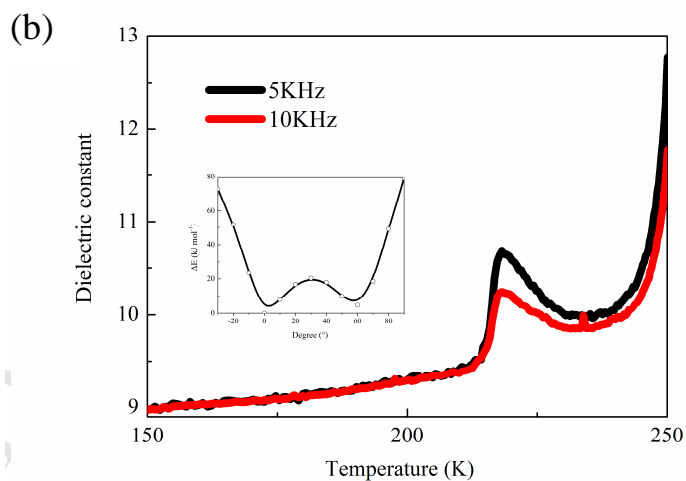
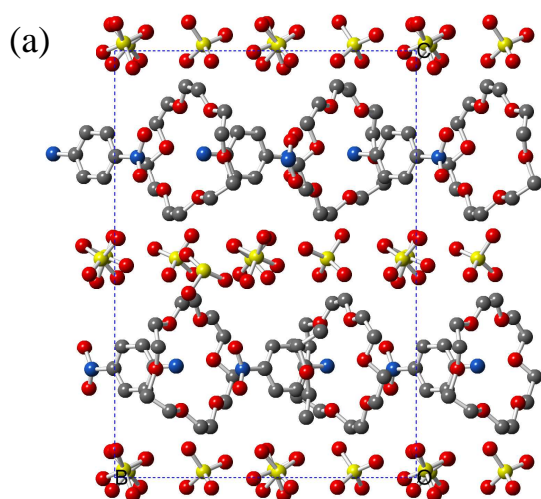
Revised Date: 22 March 2018

Accepted Date: 24 March 2018

Please cite this article as: Y. Liu, C.-l. Zhu, L.-l. Qin, X.-y. Zheng, Z.-q. Liu, Anisotropic dielectric phase transition triggered by pendulum-like motion coupled with proton transfer in a layered hybrid crystalline material (4-nitroanilinium⁺) (18-crown-6) (H₂PO₄⁻) (H₃PO₄)₂, *Journal of Molecular Structure* (2018), doi: 10.1016/j.molstruc.2018.03.102.

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a) View of the self-assembly packing of supramolecular cations and anions along the a -axis in complex **1**, showing the organic cation layer and the inorganic phosphate anion layer were arranged alternately. b) Dielectric constants of **1** measured along the a -axis at frequencies of 5 KHz and 10 KHz. Inset: calculated potential energy for the pendulum-like motion of the nitro-group.



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