

## Electronic Supporting Information

### **Iodobismuthates with *N*-alkyl- or *N,N'*-dialkyl-4,4'-bipyridinium: syntheses, structures and dielectric properties**

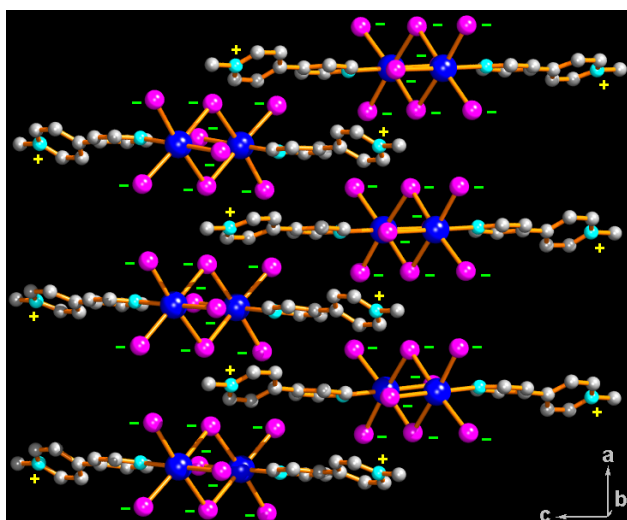
Yang Chen,<sup>a</sup> Zhou Yang,<sup>a</sup> Xin-Yi Wu,<sup>a</sup> Chun-Yan Ni,<sup>a</sup> Zhi-Gang Ren,<sup>a</sup> Hui-Fang Wang,<sup>a</sup> and Jian-Ping Lang<sup>\*a,b</sup>

<sup>a</sup> *College of Chemistry, Chemical Engineering and Materials Science, Soochow University, Suzhou 215123, Jiangsu, P. R. China*

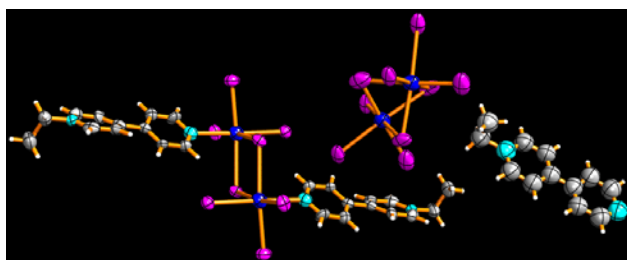
<sup>b</sup> *State Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing 210093, P. R. China.*

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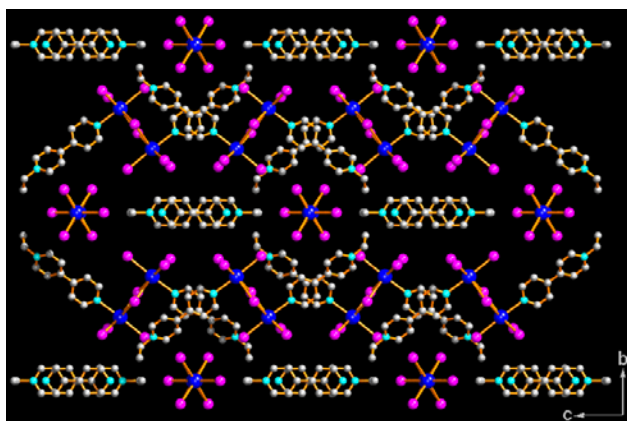
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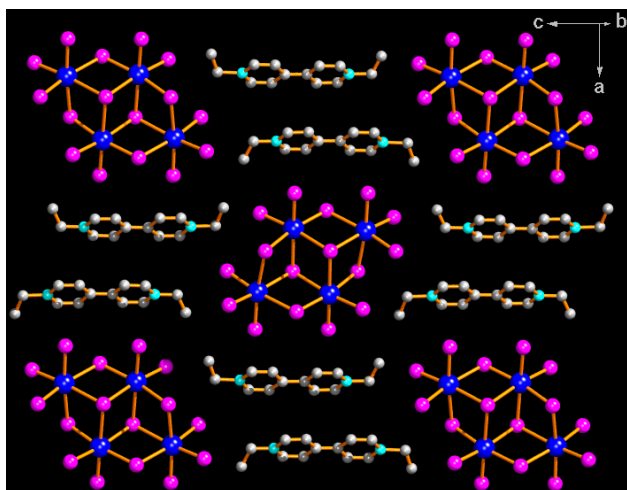
**Fig. S1** 2D  $[\text{Bi}_2\text{I}_6(\mu\text{-I})_2(\text{MQ})_2]$ -based layer in **1**. Hydrogen atoms are omitted for clarity. The “+” and “-” represent the positive charge and negative charge center, respectively. Atom color codes: C, grey; H, white; N, cyan; Bi, blue; I, pink (the same hereinafter).



**Fig. S2** Perspective view of the asymmetric unit of **2** with 50% thermal ellipsoids.



**Fig. S3** 3D packing diagram of **2**, which is similar with that of **1**. H atoms are omitted for clarity.



**Fig. S4** 2D packing diagram of **4** extending along *ac* plane. H atoms are omitted for clarity.