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## **Towards an ab-axis giant proximity effect using ionic liquid gating**

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Towards an *ab*-axis giant proximity effect  
using ionic liquid gating



# Towards an *ab*-axis giant proximity effect using ionic liquid gating

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The cover image aims to summarize the ionic liquid gating performed on cuprates. The droplet in the background represents the ionic liquid. *N,N*-diethyl-*N*-(2-methoxyethyl)-*N*-methylammonium (DEME) cations and bis(trifluoromethanesulfonyl)imide (TFSI) anions. The ions are located just above the atomic terraces of a  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$  crystal.

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