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ISSN 2051-6347 CODEN MHAOAL 10(12) 5317-5986 (2023)



Cover See Wei Tao, Tiangang Luan, Seyoung Koo, Xiaoyuan Ji *et al.*, pp. 5474–5483. Image reproduced by permission of Xiaoyuan Ji from *Mater. Horiz.*, 2023, **10**, 5474.



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The future of metal-organic frameworks and covalent organic frameworks: rational synthesis and customized applications

Xing Han, Wenqiang Zhang, Zhijie Chen,* Yan Liu* and Yong Cui*



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Materials Horizons (electronic: ISSN 2051-6355) is published 12 times a year by

the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

All orders, with cheques made payable to the Royal Society of Chemistry, should be sent to the Royal Society of Chemistry Order Department, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road Cambridge, CB4 0WF, UK

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2023 Annual (electronic) subscription price: £2697, \$4615. Customers in Canada will be subject to a surcharge to cover GST. Customers in the EU subscribing to the electronic version only will be charged VAT.

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Building and designing systems from the molecular level

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Without capping layer

With capping laye



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V v's vacuum

BiFeO₃

Ec

H₂/H₂O

0₂/H₂O

--- Er

E_v



0.02 (mAcm⁻²)

0.01

Current Density 0

V v's NHE

Applied Potential (V, vs NHE) 0.2 0.4 0.6 0.8 1.0

2 0.0 0.2 0.4 0.6 0.8 Applied Potential (V, vs Ag/AgCI)

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Superior high-temperature capacitive performance of polyaryl ether ketone copolymer composites enabled by interfacial engineered charge traps

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