

# Energy Advances

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## IN THIS ISSUE

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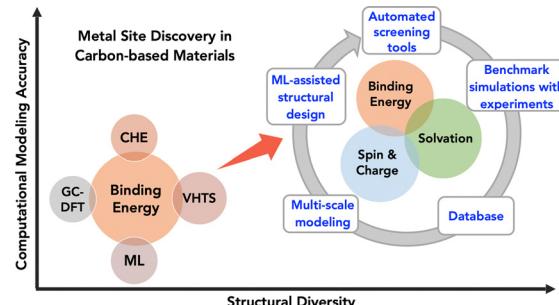
See Marc F. Tesch,  
Anna K. Mechler *et al.*,  
pp. 1823–1830.  
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*Energy Adv.*,  
2023, 2, 1823.

## REVIEWS

1781

### Advancements in computational approaches for rapid metal site discovery in carbon-based materials for electrocatalysis

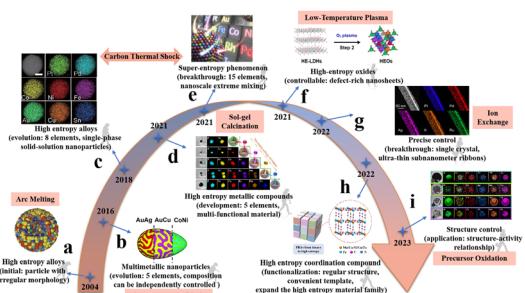
Somayeh Faraji, Zhiyu Wang, Paola Lopez-Rivera and Mingjie Liu\*



1800

### High entropy materials—emerging nanomaterials for electrocatalysis

Hang Li, Li Ling, Shengfa Li, Feng Gao\* and Qingyi Lu\*



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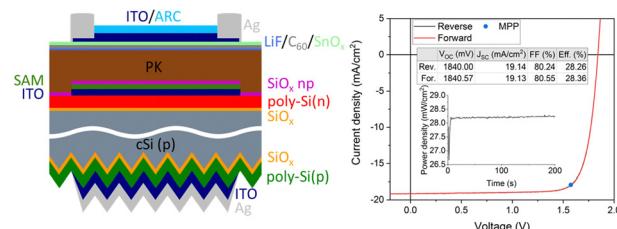
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1818

## Rear textured p-type high temperature passivating contacts and their implementation in perovskite/silicon tandem cells

Arnaud Walter,\* Brett A. Kamino, Soo-Jin Moon,  
Patrick Wyss, Juan J. Diaz Leon, Christophe Alleb  ,  
Antoine Descoeuadres, Sylvain Nicolay, Christophe Ballif,  
Quentin Jeangros and Andrea Ingenito\*

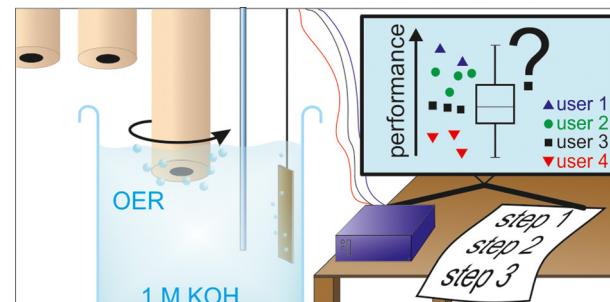


## PAPERS

1823

## The rotating disc electrode: measurement protocols and reproducibility in the evaluation of catalysts for the oxygen evolution reaction

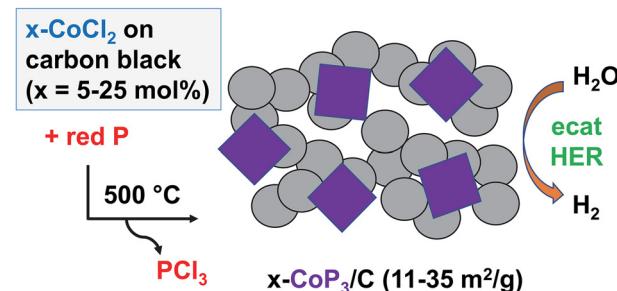
Marc F. Tesch,\* Sebastian Neugebauer,  
Praveen V. Narangoda, Robert Schlögl and  
Anna K. Mechler\*



1831

# Flexible direct synthesis of phosphorus-rich CoP<sub>3</sub> on carbon black and its examination in hydrogen evolution electrocatalysis

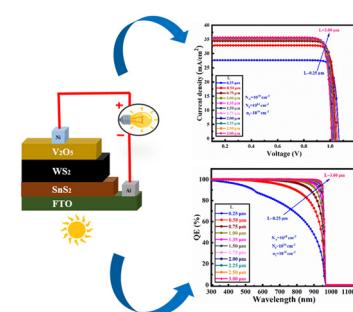
Ishanka A. Liyanage, Hannah Barmore and  
Edward G. Gillan\*



1843

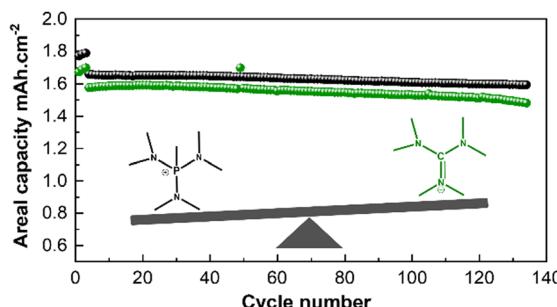
## Design and analysis of a $\text{SnS}_2/\text{WS}_2/\text{V}_2\text{O}_5$ double-heterojunction toward high-performance photovoltaics

Jubair Al Mahmud, Md. Ferdous Rahman,\*  
Abdul Kuddus,\* Md. Hasan Ali, A. T. M. Saiful Islam,  
Md. Dulal Haque, Sheikh Rashel Al Ahmed,  
Muhammad Mushtaq and Abu Bakar Md. Ismail



## PAPERS

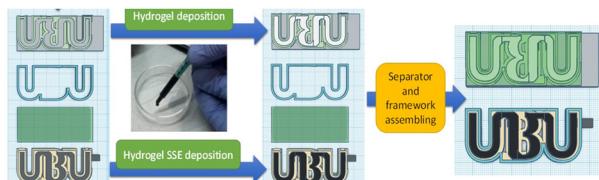
1859



## A comparison of the impact of cation chemistry in ionic liquid-based lithium battery electrolytes

Faezeh Makhlooghiazad,\* Colin S. M. Kang, Mojtaba Eftekharinia, Patrick C. Howlett, Oliver Hutt, Maria Forsyth, Luke A. O'Dell and Jennifer M. Pringle\*

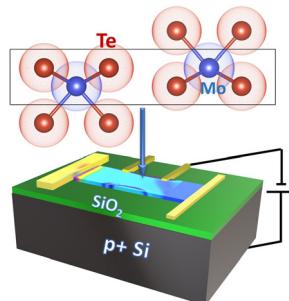
1872



## Semi-solid electrodes based on injectable hydrogel electrolytes for shape-conformable batteries

Mario Borlaf, Matias L. Picchio, Gisela Carina Luque, Miryam Criado-Gonzalez, Gregorio Guzmán-Gonzalez, Daniel Pérez-Antolín, Gabriele Lingua, David Mecerreyres\* and Edgar Ventosa\*

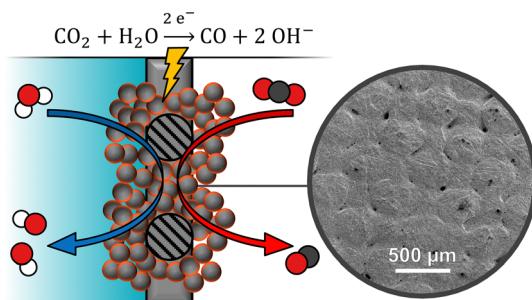
1882



## Electrostatic modulation of thermoelectric transport properties of 2H-MoTe₂

Tianhui Zhu, Sree Sourav Das, Safoura Nayeb Sadeghi, Farjana Ferdous Tonni, Sergiy Krylyuk, Costel Constantin, Keivan Esfarjani, Albert V. Davydov and Mona Zebarjadi\*

1893



## Electrowetting limits electrochemical CO₂ reduction in carbon-free gas diffusion electrodes

Lorenz M. Baumgartner, Andrey Goryachev, Christel I. Koopman, David Franzen, Barbara Ellendorff, Thomas Turek and David A. Vermaas\*

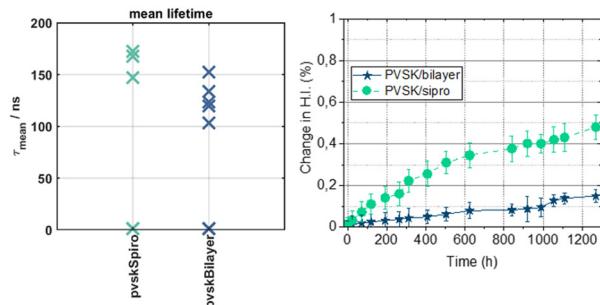


## PAPERS

1905

**An  $\text{Fe}_3\text{O}_4$  based hole transport bilayer for efficient and stable perovskite solar cells**

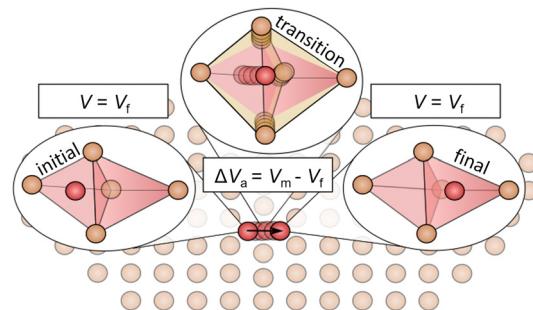
Akbar Ali Qureshi, Emilia R. Schütz, Sofia Javed,\* Lukas Schmidt-Mende and Azhar Fakharuddin\*



1915

**Pressure dependence of ionic conductivity in site disordered lithium superionic argyrodite  $\text{Li}_6\text{PS}_5\text{Br}$** 

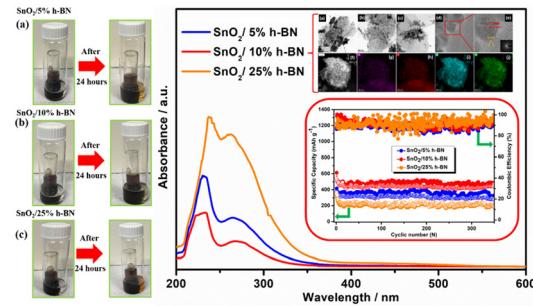
Vasiliki Faka, Matthias T. Agne, Paul Till, Tim Bernges, Marcel Sadowski, Ajay Gautam, Karsten Albe and Wolfgang G. Zeier\*



1926

 **$\text{SnO}_2$ /h-BN nanocomposite modified separator as a high-efficiency polysulfide trap in lithium–sulfur batteries**

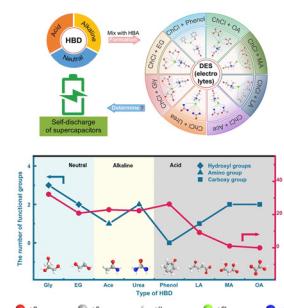
Chandra Sekhar Bongu, Yasmin Mussa, Sara Aleid, Muhammad Arsalan and Edreese H. Alsharaeh\*



1935

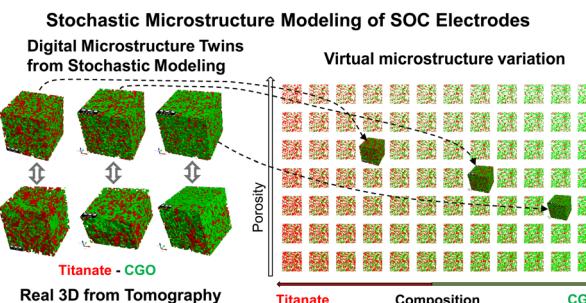
**Screening the deep eutectic electrolytes for supercapacitors with alleviated self-discharge**

Wenxia Huang, Xiaohui Yan, Yige Xiong, Qihui Guo, Xin Zhang, Fengyu Huang, Houqiang Shi and Xiang Ge\*



## PAPERS

1942



**Stochastic microstructure modeling of SOC electrodes based on a pluri-Gaussian method**

Philip Marmet,\* Lorenz Holzer, Thomas Hocker, Vinzenz Muser, Gernot K. Boiger, Mathias Fingerle, Sarah Reeb, Dominik Michel and Joseph M. Brader

## CORRECTION

1968

**Correction: Generation of covalent organic framework-derived porous N-doped carbon nanosheets for highly efficient electrocatalytic hydrogen evolution**

Sayan Halder, Anup Kumar Pradhan, Soumen Khan and Chanchal Chakraborty\*

