

# Energy Advances

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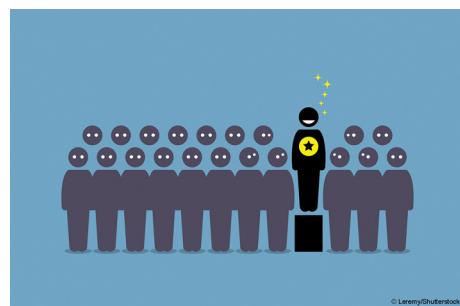
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See Nicholas M. Bedford, Jessica Velisek Carolan *et al.*, pp. 1134–1147. Image reproduced by permission of Nicholas M. Bedford from *Energy Adv.*, 2023, 2, 1134.

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### Synthetic approaches for perovskite thin films and single-crystals

Anastasia Soultati, Marinos Tountas, Konstantina K. Armadorou, Abd. Rashid bin Mohd Yusoff, Maria Vasilopoulou\* and Mohammad Khaja Nazeeruddin\*



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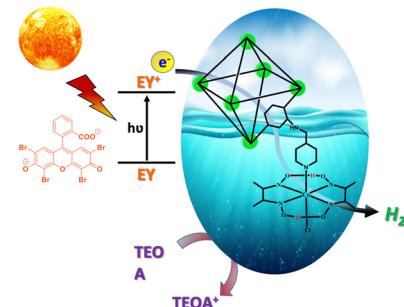


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**Post-synthetic modulation of  $\text{UiO-66-NH}_2$  with a cobaloxime catalyst for efficient hydrogen production**

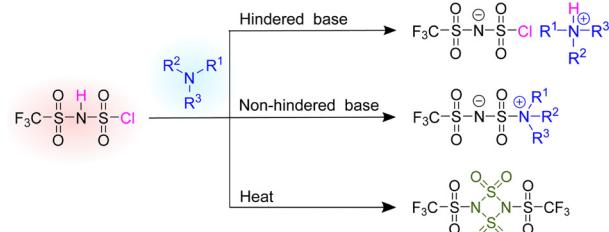
Saddam Sk, Sandip Prabhakar Shelake, Dependu Dolui, Suhana Karim, Rajib Ghosh, M. V. Jyothirmai, Annadanam V. Sesha Sainath, Ujjwal Pal\* and Arnab Dutta\*



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**(Chlorosulfonyl)(trifluoromethanesulfonyl)imide—a versatile building block for battery electrolytes**

Letao Jin, Ziyu Song, Heng Zhang,\* Zhibin Zhou and Wenfang Feng\*

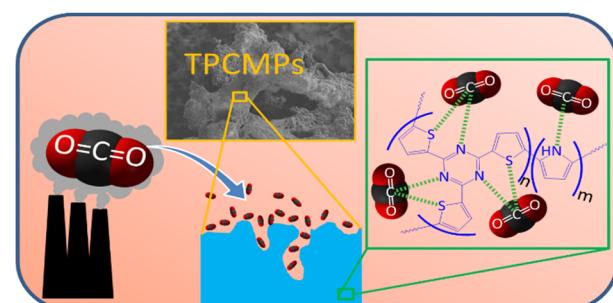


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**Poly(triazine-co-pyrrole)-based conjugated microporous polymers for carbon dioxide capture**

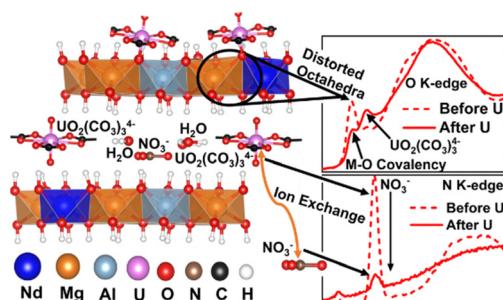
Dushan Suranga Amaraseela, Norazilawati Muhammad Sarih\* and Shehu Habibu



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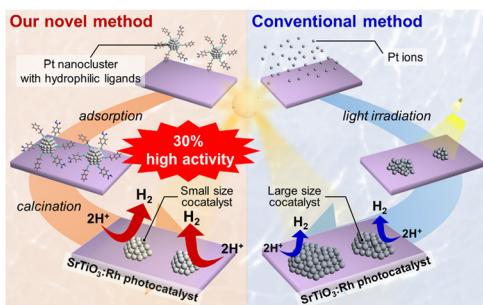
**Enhanced uranium extraction selectivity from seawater using dopant engineered layered double hydroxides**

Muhammad Zubair, Hayden Ou, Yuwei Yang, Daniel T. Oldfield, Lars Thomsen, Bijil Subhash, Jessica L. Hamilton, Joshua T. Wright, Nicholas M. Bedford\* and Jessica Veliseck Carolan\*



## PAPERS

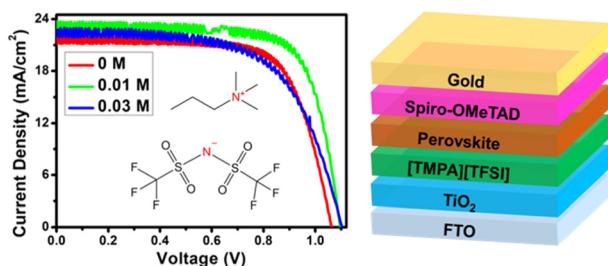
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## Activation of hydrogen-evolution reactivity in an Rh-doped $\text{SrTiO}_3$ photocatalyst under visible-light irradiation by loading with controlled platinum nanoclusters

Daichi Yazaki, Tokuhisa Kawakami,\* Tomoya Tanaka, Daisuke Hirayama, Yamato Shingyouchi and Yuichi Negishi\*

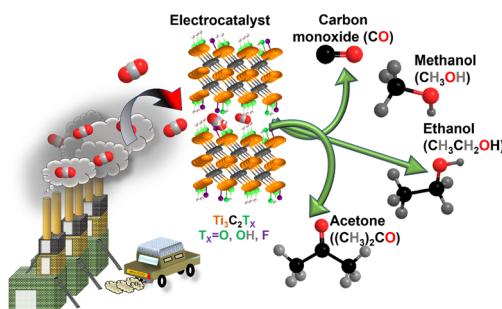
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## Role of antisolvent temperature and quaternary ammonium cation-based ionic liquid engineering in the performance of perovskite solar cells processed under air ambient conditions

Subrata Ghosh,\* Binita Boro, Shivam Porwal, Snehangshu Mishra and Trilok Singh\*

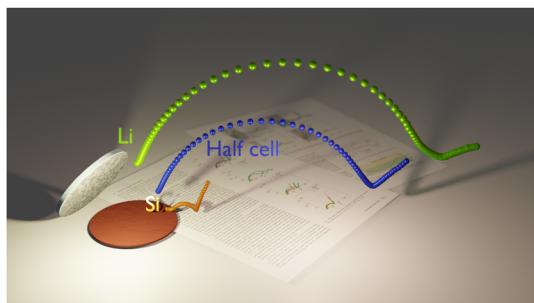
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## Two-dimensional $\text{Ti}_3\text{C}_2\text{T}_x$ MXene nanosheets for $\text{CO}_2$ electroreduction in aqueous electrolytes

Sarathkumar Krishnan, Senthilkumaran Marimuthu, Mayank K. Singh and Dhirendra K. Rai\*

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## Unravelling the electrochemical impedance spectroscopy of silicon half cells with commercial loading

Frederik T. Huld,\* Zhixin Yu\* and Fengliu Lou\*

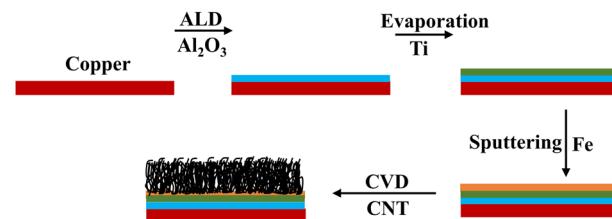


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## Effect of a Ti layer on the growth of binder-free carbon nanotubes on Cu foil and their performance as lithium ion battery anodes

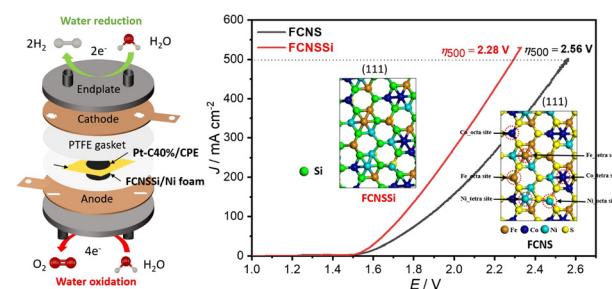
Ganesh Sainadh Gudavalli, Mahesh Nepal, Joshua Young, Manuel Smeu and Tara P. Dhakal\*



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## Silicon atom doping in heterotrimetallic sulfides for non-noble metal alkaline water electrolysis

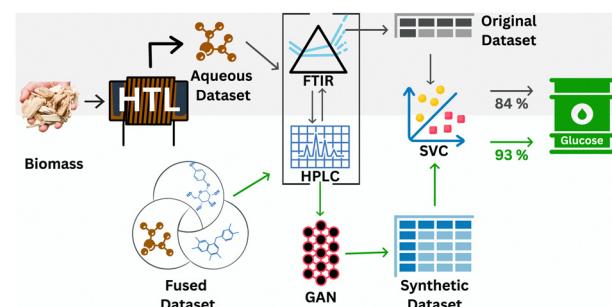
Mohamed Barakat Zakaria Hegazy,\* Leila Bahri, David Tetzlaff, Sebastian A. Sanden and Ulf-Peter Apfel\*



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## Enhancing glucose classification in continuous flow hydrothermal biomass liquefaction streams through generative AI and IR spectroscopy

Silviu Florin Acaru,\* Rosnah Abdullah, Daphne Teck Ching Lai and Ren Chong Lim\*



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## Assessing alkyl side chain effects on electron transport properties of Y6-derived non-fullerene acceptors

Daniele Padula,\* Alessandro Landi\* and Giacomo Prampolini\*

