Materials Horizons

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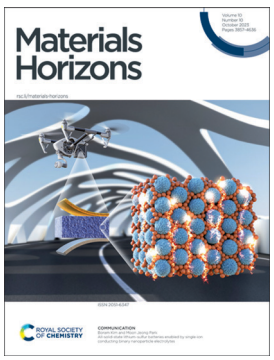

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See Chunjing Guo, Daquan Chen, Xingcai Zhang *et al.*, pp. 3879–3894. Image reproduced by permission of Xingcai Zhang and Daquan Chen from *Mater. Horiz.*, 2023, **10**, 3879.

EDITORIALS

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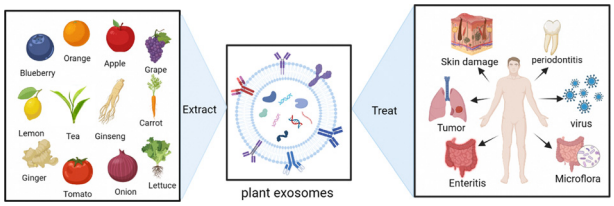

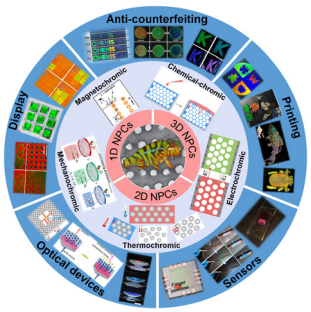

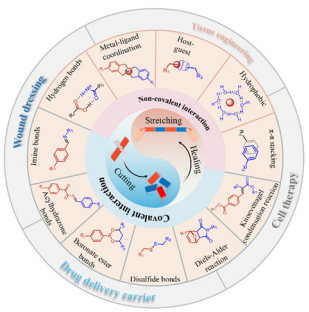

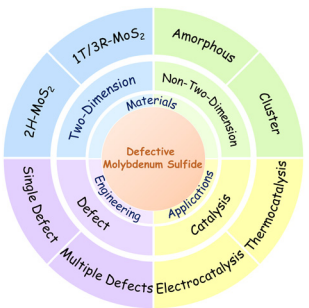

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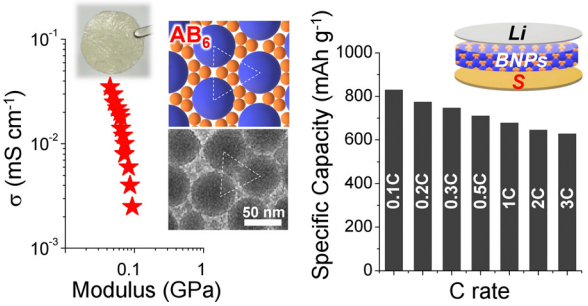

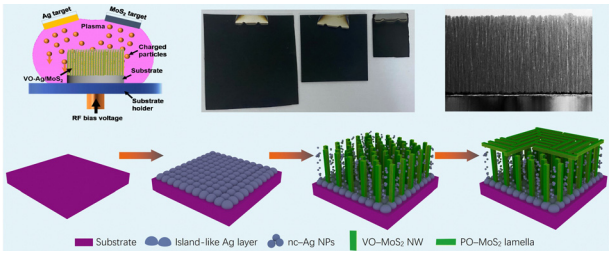

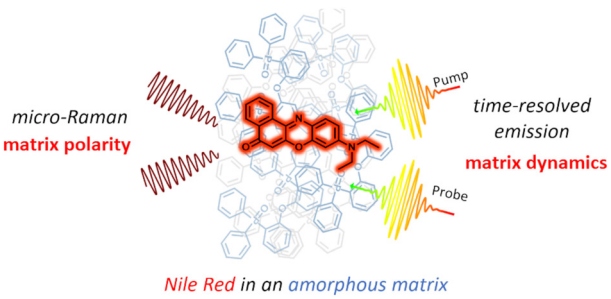

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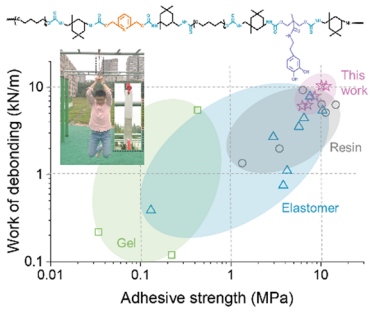

A strain-reinforcing elastomer adhesive with superior adhesive strength and toughness

Chuanlong Li, Wenbo Dong, Longyu Li, Zhengli Dou, Yuhan Li, Liuhe Wei, Qin Zhang,* Qiang Fu and Kai Wu*

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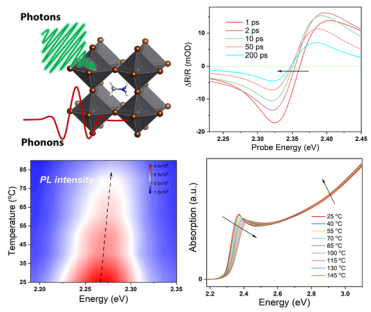

Phonon-driven transient bandgap renormalization in perovskite single crystals

Lijie Wang, Hong Wang, Razan Nughays, Wojciech Ogieglo, Jun Yin, Luis Gutiérrez-Arzaluz, Xinyuan Zhang, Jian-Xin Wang, Ingo Pinnau, Osman M. Bakr and Omar F. Mohammed*

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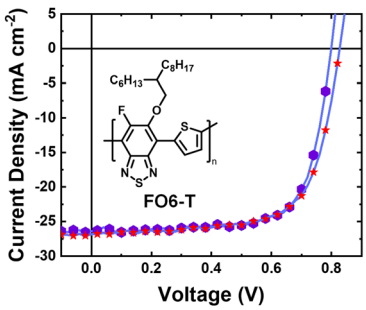

- **Short synthesis**
- **Low Synthetic complexity**
- **High PCE of 15.4%**

A polymer library enables the rapid identification of a highly scalable and efficient donor material for organic solar cells

Martina Rimmele, Zhuoran Qiao, Julianna Panidi, Francesco Furlan, Chulyeon Lee, Wen Liang Tan, Christopher R. McNeill, Youngkyoo Kim, Nicola Gasparini* and Martin Heeney*

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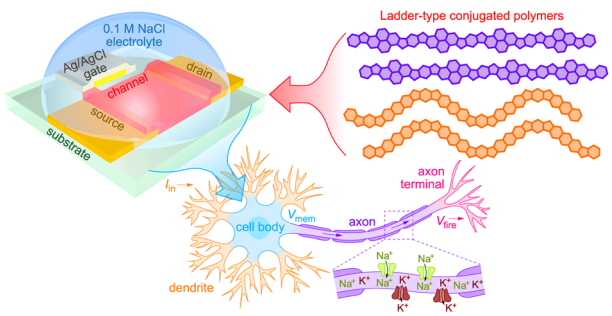

Stable organic electrochemical neurons based on p-type and n-type ladder polymers

Han-Yan Wu, Jun-Da Huang, Sang Young Jeong, Tiefeng Liu, Ziang Wu, Tom van der Pol, Qingqing Wang, Marc-Antoine Stoeckel, Qifan Li, Mats Fahlman, Deyu Tu, Han Young Woo, Chi-Yuan Yang and Simone Fabiano*

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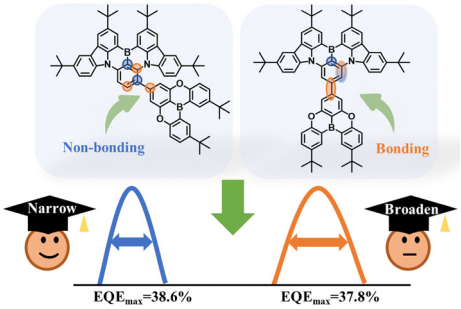

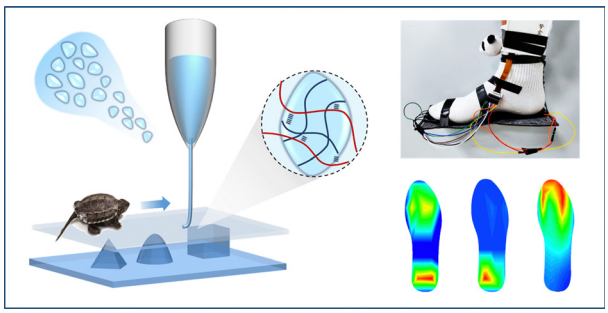

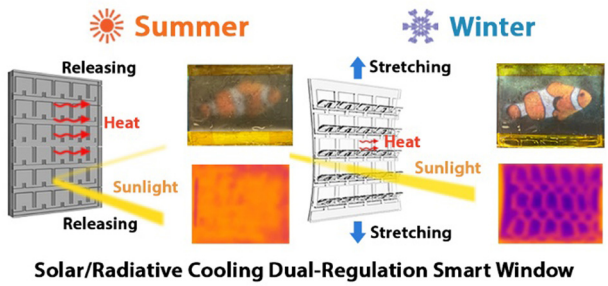

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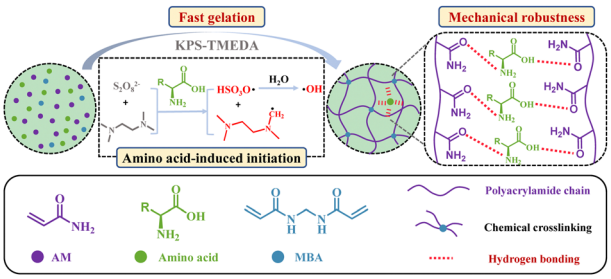

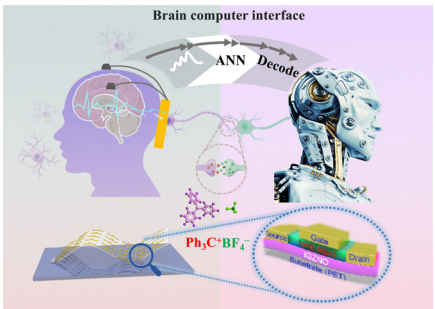

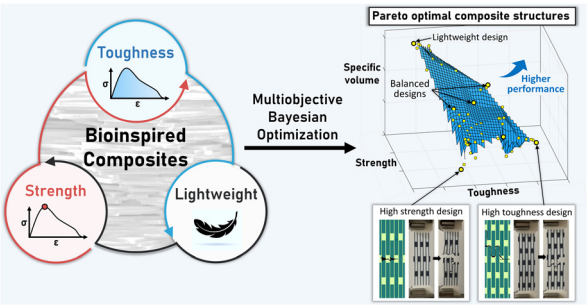

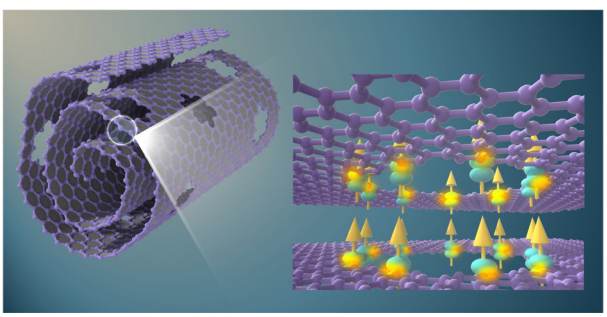

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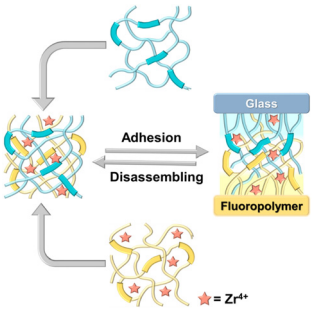

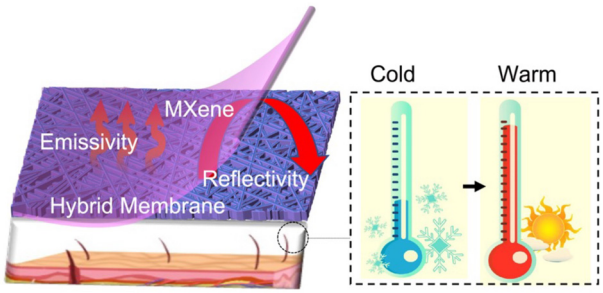

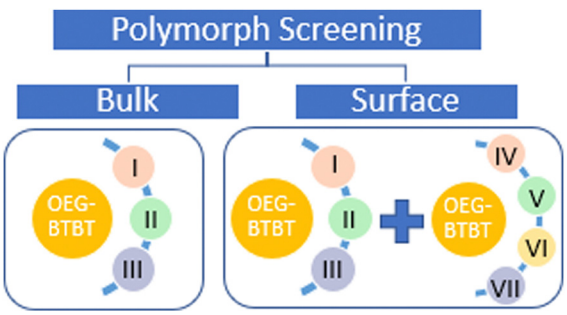

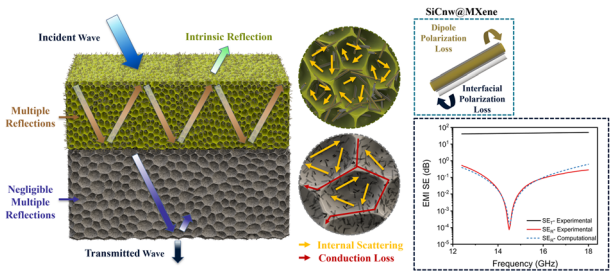

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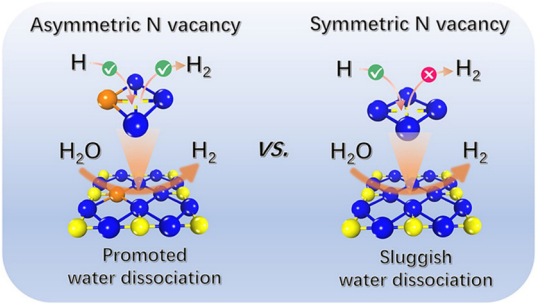

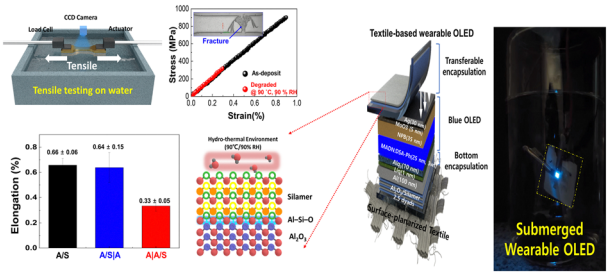

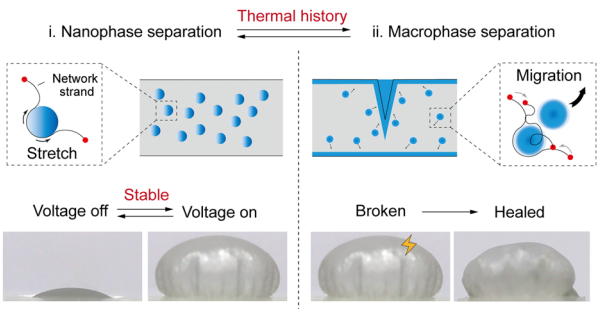

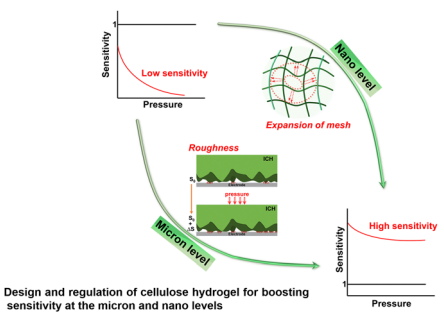

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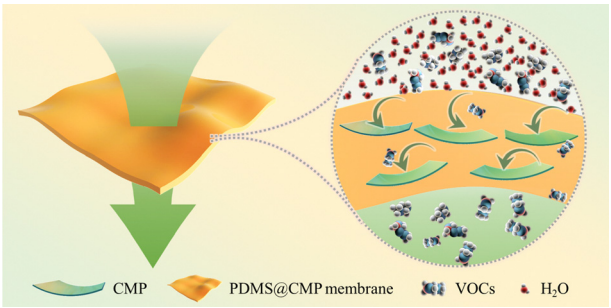

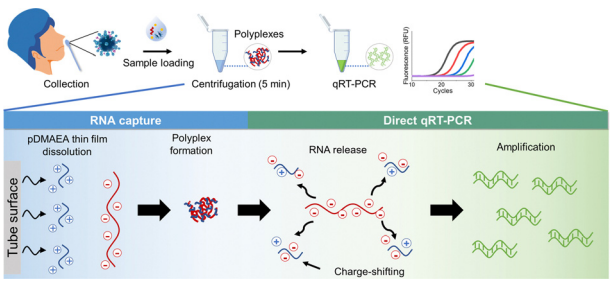

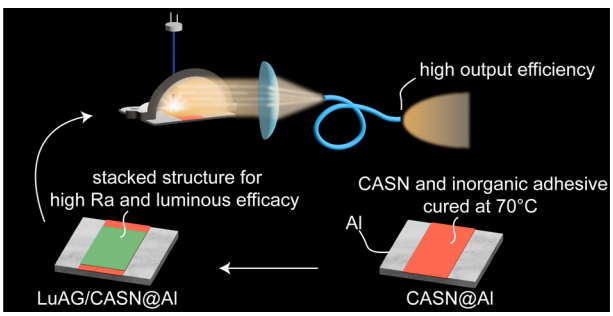

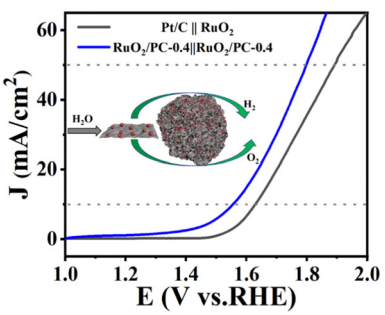

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