

Materials Horizons

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See Fengqi You *et al.*, pp. 15–44. Image reproduced by permission of Fengqi You from *Mater. Horiz.*, 2026, 13, 15.



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See Siyang Li, Tuck-Whye Wong, Tiefeng Li *et al.*, pp. 219–232. Image reproduced by permission of Siyang Li, Tuck-Whye Wong and Tiefeng Li from *Mater. Horiz.*, 2026, 13, 219.

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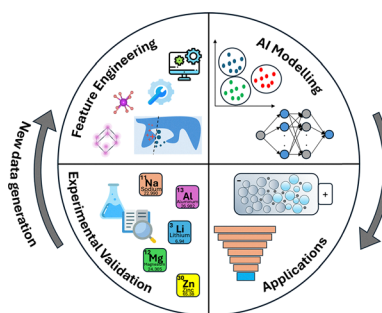


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Vinamr Jain, Zhilong Wang and Fengqi You*



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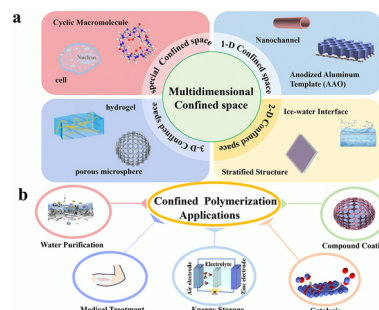
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Confined polymerization: multidimensional regulation, advanced measurements and cutting-edge applications

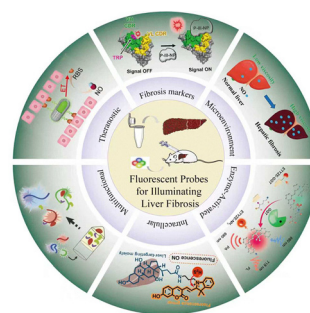
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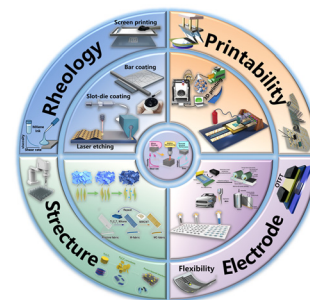
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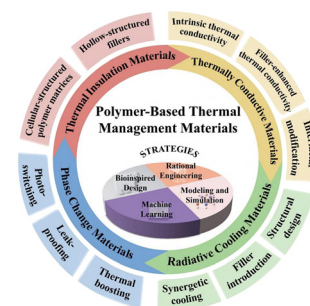
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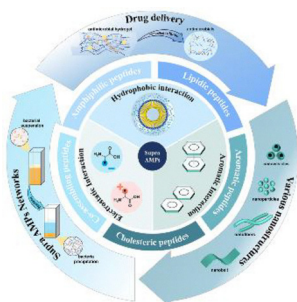
Recent advances in the thermal management performance of polymer-based composite materials

Jia Li, Mengmeng Qin* and Wei Feng*



REVIEWS

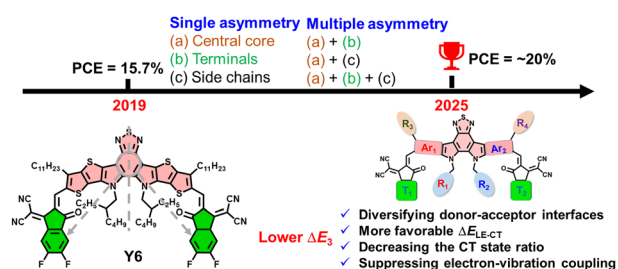
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Supramolecular crafting of peptides as novel antimicrobial materials

Longjie Li, Jiale Hu, Yi Liu, Zongyuan Wang,*
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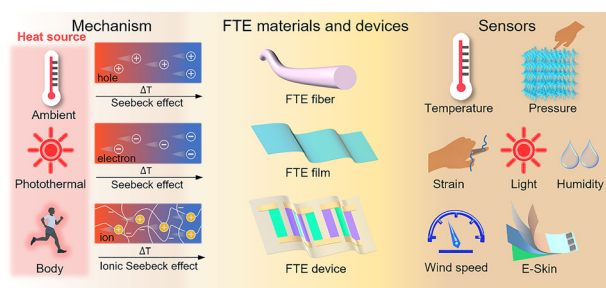
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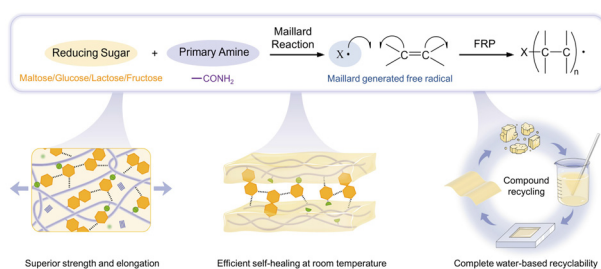


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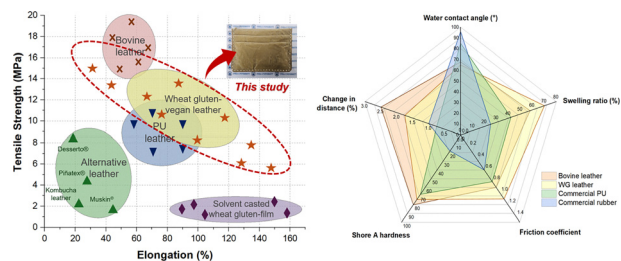
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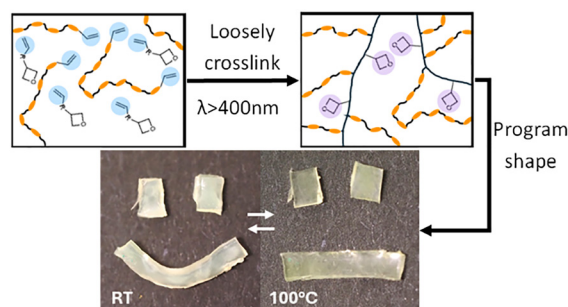
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Shape programming of liquid crystal elastomers by two-stage wavelength-selective photopolymerization

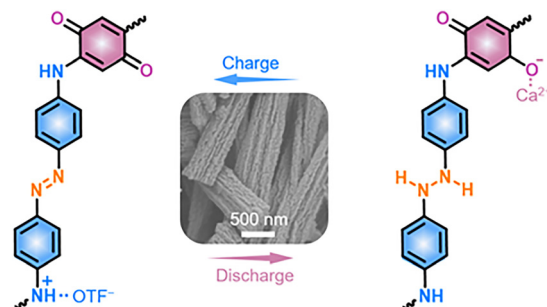
Tom Bruining, Daniela R. Tomé and Danqing Liu*



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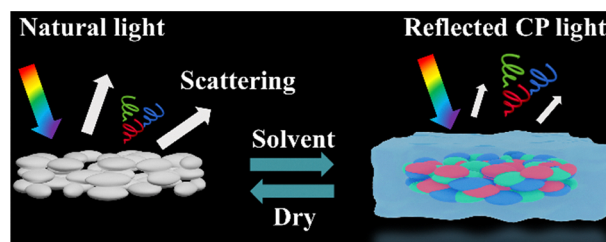
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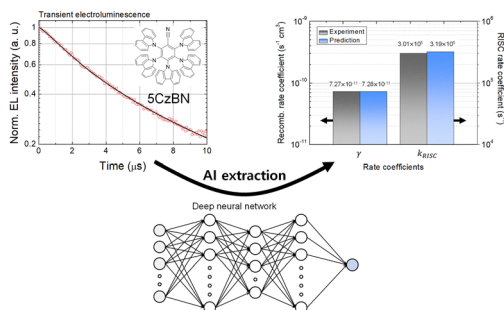
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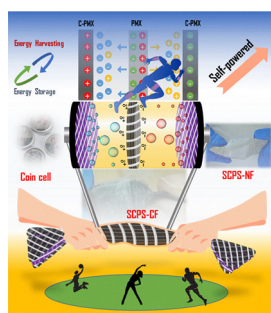
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Junseop Lim, Seungwon Han, Jae-Min Kim* and Jun Yeob Lee*

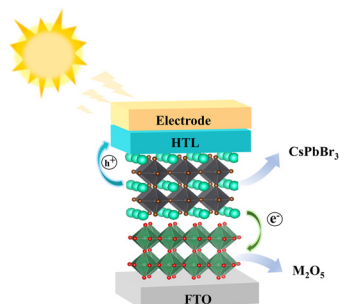
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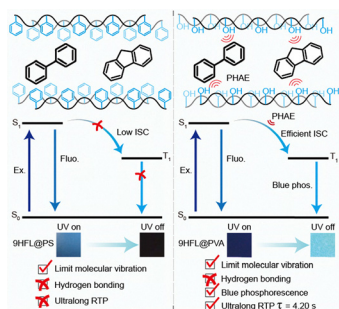
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Unraveling atomic-scale origins of interfacial properties in CsPbBr₃/M₂O₅ (M = Nb, Ta) heterojunctions: a combined first-principles and experimental approach

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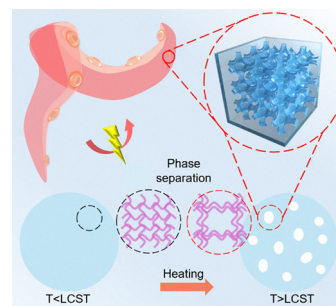
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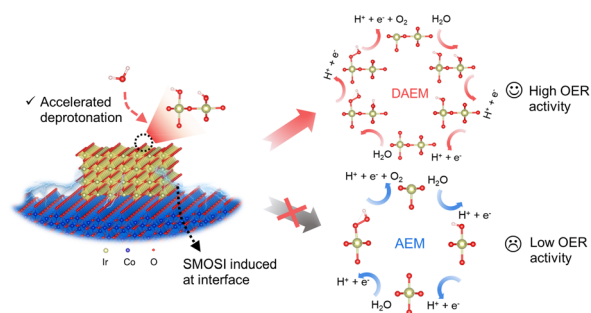
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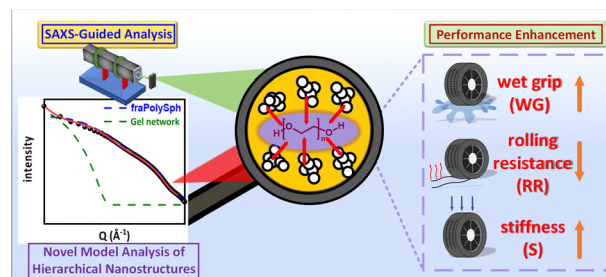
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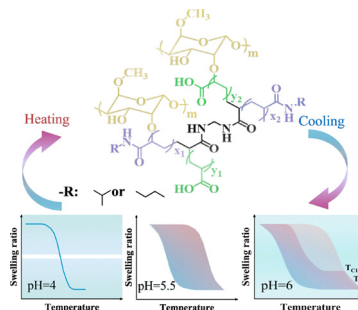
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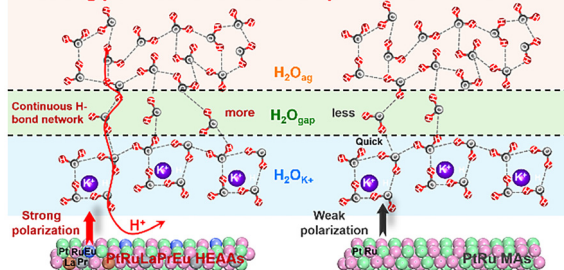
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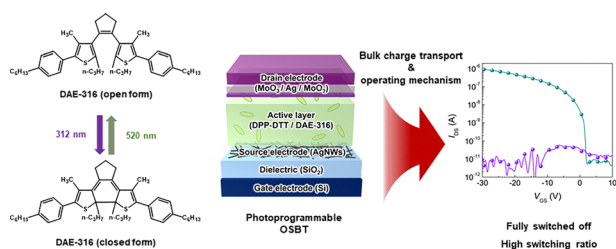
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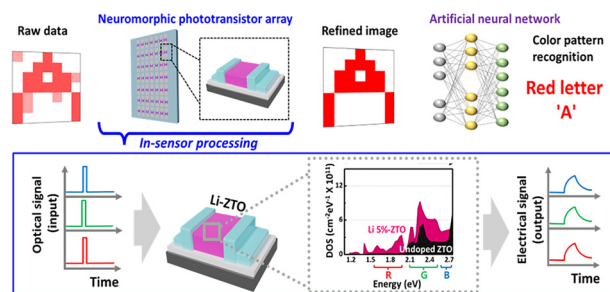
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Strong polarization effect of Ln promotes alkaline HER**The strong polarization effect of lanthanide metals for efficient alkaline hydrogen evolution**Yajun Wang, Siyi Wang, Mingrui Guo, Tianjun Zhang,*
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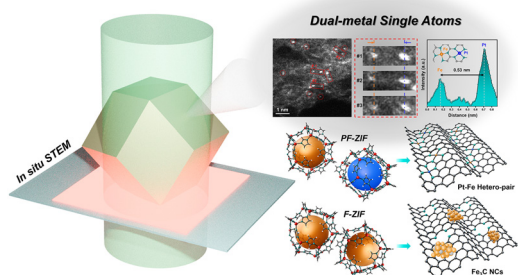
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Jeong-Wan Jo, Yong-Hoon Kim,* Sung Kyu Park* and
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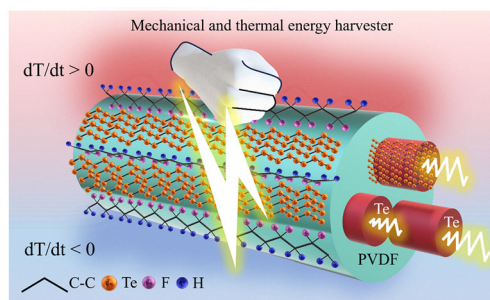
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Yan-Gu Lin, Yu-Lun Chueh and Ming-Yen Lu*

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Ferroelectric nanofibers with nanoconfined tellurium nanobeams for mechanical and thermal energy harvesting and wearable healthcare

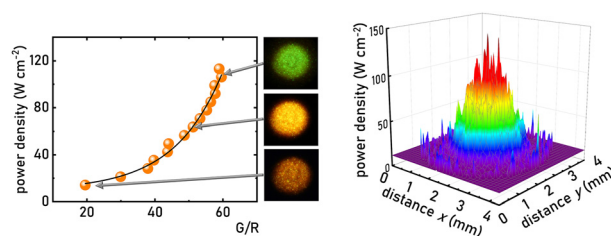
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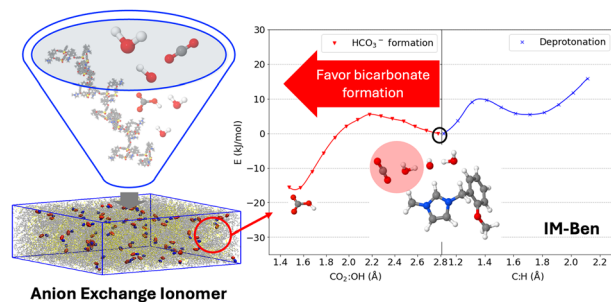
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Molecular insights into CO₂-to-bicarbonate transformation in functionalized anion exchange ionomers for electrochemical separations

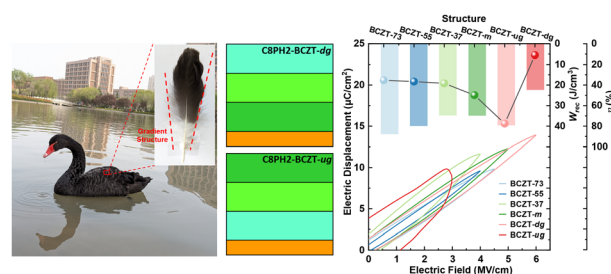
Shi Li, Tianyue Gao, Yupu Lin, Christopher G. Arges* and Rajeev Surendran Assary*



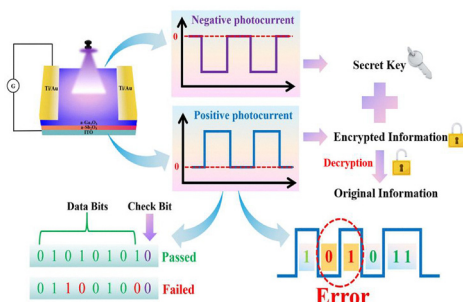
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Bioinspired, compositionally graded cellulose-based dielectrics with Schottky-engineered interfaces for high-performance and sustainable energy storage

Zixiong Sun, Yao Li, Haoyang Xin, Liming Diwu, Zhanhua Wang, Pan Gao, Ye Tian, Hongmei Jing and Zhuo Wang*



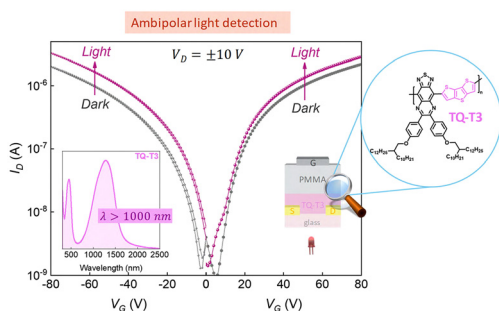
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A bipolar response deep ultraviolet photodetector for encryption and anti-interference communication based on an a-Sb₂O₅/a-Ga₂O₃ heterojunction

Cheng Wu, Peiwen Lv,* Zhaojie Zhu, Yizhi Huang, Chaoyang Tu, Chenlong Chen, G. Lakshminarayana and Yan Wang*

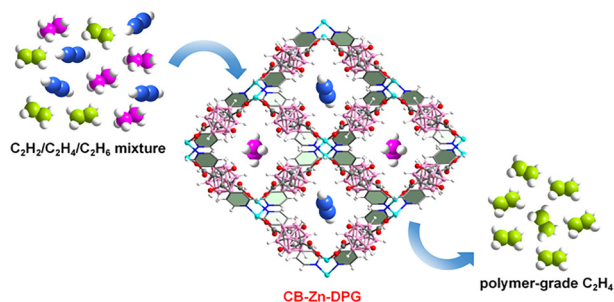
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Novel ambipolar polymers for detection beyond 1000 nm with organic phototransistors

Kaiyang Wei, Davide Nodari, Xabier Rodriguez-Martinez, Leonidas Tsetseris, Alkmini D. Nega, Antonia Dimitrakopoulou-Strauss, Martina Rimmele, Nikos Hastas, Yijia Li, Flurin Eisner, Manolis Matzapetakis, Jaime Martin, Vasilis G. Gregoriou, Nicola Gasparini, Christos L. Chochos and Julianna Panidi*

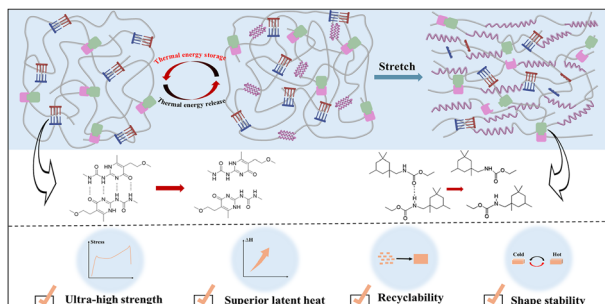
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Moderately polarized carborane-MOF with inverse C₂ selectivity for one-step polymer-grade ethylene purification

Changhong Liu, Guangzu Xiong, Yuzhe Wang, Wenlei Yang, Yiwen Yuan, Hui Wang, Lingyao Wang* and Yuanbin Zhang*

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Mechanically robust and high latent heat solid–solid phase change materials via a H-bonding collaborative strategy for energy storage and conversion

Zhiqiang Li, Chunhua Ge,* Daming Feng, Xinyue Zhang, Lixue Zhou and Xiangdong Zhang*

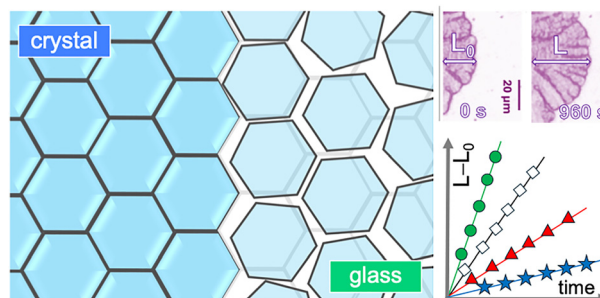


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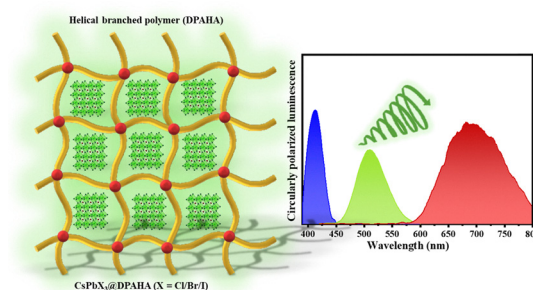
Federico Caporaletti,* Martin Eduardo Villanueva, Sascha Molitor, Biao Zuo and Simone Napolitano*



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Photopolymerized helical acrylate networks enable stable and full-color circularly polarized luminescence in perovskite nanocrystals

Atanu Jana,* Deblina Das, Sourav Mal, Tarak Nath Mandal, Youngsin Park* and Sangeun Cho*



CORRECTION

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Correction: Shape programming of liquid crystal elastomers by two-stage wavelength-selective photopolymerization

Tom Bruining, Daniela R. Tomé and Danqing Liu*

