

## ESI Hot Papers in May 2023

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1. [Circularly polarized luminescence from organic micro-/nano-structures](#)

Yongjing Deng, Mengzhu Wang, Yanling Zhuang, Shujuan Liu, Wei Huang & Qiang Zhao

*Light Sci Appl* **10**, 76 (2021). DOI: 10.1038/s41377-021-00516-7

2. [Multifunctional metasurfaces enabled by simultaneous and independent control of phase and amplitude for orthogonal polarization states](#)

Mingze Liu, Wenqi Zhu, Pengcheng Huo, Lei Feng, Maowen Song, Cheng Zhang, Lu Chen, Henri J. Lezec, Yanqing Lu, Amit Agrawal & Ting Xu

*Light Sci Appl* **10**, 107 (2021). DOI: 10.1038/s41377-021-00552-3

3. [X-ray-charged bright persistent luminescence in NaYF<sub>4</sub>:Ln<sup>3+</sup>@NaYF<sub>4</sub> nanoparticles for multidimensional optical information storage](#)

Yixi Zhuang, Dunrong Chen, Wenjing Chen, Wenxing Zhang, Xin Su, Renren Deng, Zhongfu An, Hongmin Chen & Rong-Jun Xie

*Light Sci Appl* **10**, 132 (2021). DOI: 10.1038/s41377-021-00575-w

4. [Precursor-dependent structural diversity in luminescent carbonized polymer dots \(CPDs\): the nomenclature](#)

Qingsen Zeng, Tanglue Feng, Songyuan Tao, Shoujun Zhu & Bai Yang

*Light Sci Appl* **10**, 142 (2021). DOI: 10.1038/s41377-021-00579-6

5. [Polarisation optics for biomedical and clinical applications: a review](#)

Chao He, Honghui He, Jintao Chang, Binguo Chen, Hui Ma & Martin J. Booth

*Light Sci Appl* **10**, 194 (2021). DOI: 10.1038/s41377-021-00639-x

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6. [Augmented reality and virtual reality displays: emerging technologies and future perspectives](#)

Jianghao Xiong, En-Lin Hsiang, Ziqian He, Tao Zhan & Shin-Tson Wu

*Light Sci Appl* **10**, 216 (2021). DOI: 10.1038/s41377-021-00658-8

7. [Optical meta-waveguides for integrated photonics and beyond](#)

Yuan Meng, Yizhen Chen, Longhui Lu, Yimin Ding, Andrea Cusano, Jonathan A. Fan, Qiaomu Hu, Kaiyuan Wang, Zhenwei Xie, Zhoutian Liu, Yuanmu Yang, Qiang Liu, Mali Gong, Qirong Xiao, Shulin Sun, Minming Zhang, Xiaocong Yuan & Xingjie Ni

*Light Sci Appl* **10**, 235 (2021). DOI: 10.1038/s41377-021-00655-x

8. [Deep learning in optical metrology: a review](#)

Chao Zuo, Jiaming Qian, Shijie Feng, Wei Yin, Yixuan Li, Pengfei Fan, Jing Han, Kemao Qian & Qian Chen

*Light Sci Appl* **11**, 39 (2022). DOI: 10.1038/s41377-022-00714-x