

ESI Hot Papers in September 2024

- Towards higher-dimensional structured light**
Chao He, Yijie Shen & Andrew Forbes
Light Sci Appl **11**, 205 (2022). DOI: 10.1038/s41377-022-00897-3
- Fundamentals and comprehensive insights on pulsed laser synthesis of advanced materials for diverse photo-and electrocatalytic applications**
Jayaraman Theerthagiri, K. Karuppasamy, Seung Jun Lee, R. Shwetharani, Hyun-Seok Kim, S. K. Khadheer Pasha, Muthupandian Ashokkumar & Myong Yong Choi
Light Sci Appl **11**, 250 (2022). DOI: 10.1038/s41377-022-00904-7
- Self-assembled liquid crystal architectures for soft matter photonics**
Ling-Ling Ma, Chao-Yi Li, Jin-Tao Pan, Yue-E. Ji, Chang Jiang, Ren Zheng, Ze-Yu Wang, Yu Wang, Bing-Xiang Li & Yan-Qing Lu
Light Sci Appl **11**, 270 (2022). DOI: 10.1038/s41377-022-00930-5
- Phase-controlled van der Waals growth of wafer-scale 2D MoTe₂ layers for integrated high-sensitivity broadband infrared photodetection**
Di Wu, Chenguang Guo, Longhui Zeng, Xiaoyan Ren, Zhifeng Shi, Long Wen, Qin Chen, Meng Zhang, Xin Jian Li, Chong-Xin Shan & Jiansheng Jie
Light Sci Appl **12**, 5 (2023). DOI: 10.1038/s41377-022-01047-5
- Angular momentum holography via a minimalist metasurface for optical nested encryption**
Hui Yang, Peng He, Kai Ou, Yueqiang Hu, Yuting Jiang, Xiangnian Ou, Honghui Jia, Zhenwei Xie, Xiaocong Yuan & Huigao Duan
Light Sci Appl **12**, 79 (2023). DOI: 10.1038/s41377-023-01125-2
- Compact multi-foci metalens spectrometer**
Ruoxing Wang, Muhammad Afnan Ansari, Hammad Ahmed, Yan Li, Wenfeng Cai, Yanjun Liu, Songtao Li, Jianlong Liu, Li Li & Xianzhong Chen
Light Sci Appl **12**, 103 (2023). DOI: 10.1038/s41377-023-01148-9
- Photonic structures in radiative cooling**
Minjae Lee, Gwansik Kim, Yeongju Jung, Kyung Rok Pyun, Jinwoo Lee, Byung-Wook Kim & Seung Hwan Ko
Light Sci Appl **12**, 134 (2023). DOI: 10.1038/s41377-023-01119-0
- Integrated metasurfaces for re-envisioning a near-future disruptive optical platform**
Younghwan Yang, Junhwa Seong, Minseok Choi, Junkyeong Park, Gyeongtae Kim, Hongyoon Kim, Junhyeon Jeong, Chunghwan Jung, Joohoon Kim, Gyoseon Jeon, Kyung-il Lee, Dong Hyun Yoon & Junsuk Rho
Light Sci Appl **12**, 152 (2023). DOI: 10.1038/s41377-023-01169-4
- Ultra-highly sensitive dual gases detection based on photoacoustic spectroscopy by exploiting a long-wave, high-power, wide-tunable, single-longitudinal-mode solid-state laser**
Shunda Qiao, Ying He, Haiyue Sun, Pietro Patimisco, Angelo Sampaolo, Vincenzo Spagnolo & Yufei Ma
Light Sci Appl **13**, 100 (2024). DOI: 10.1038/s41377-024-01459-5