

Outstanding Papers in 2021

[Mini-LED, Micro-LED and OLED displays: present status and future perspectives](#)

Yuge Huang, En-Lin Hsiang, Ming-Yang Deng and Shin-Tson Wu

Light: Science & Applications 2020, **9**: 105; doi: 10.1038/s41377-020-0341-9

[Ultrafast and broadband photodetectors based on a perovskite/organic bulk heterojunction for large-dynamic-range imaging](#)

Chenglong Li, Hailu Wang, Fang Wang, Tengfei Li, Mengjian Xu, Hao Wang, Zhen Wang, Xiaowei Zhan, Weida Hu and Liang Shen

Light: Science & Applications 2020, **9**: 31; doi: 10.1038/s41377-020-0264-5

[Strategies to approach high performance in Cr³⁺-doped phosphors for high-power NIR-LED light sources](#)

Zhenwei Jia, Chenxu Yuan, Yongfu Liu, Xiao-Jun Wang, Peng Sun, Lei Wang, Haochuan Jiang and Jun Jiang

Light: Science & Applications 2020, **9**: 86; doi: 10.1038/s41377-020-0326-8

[Micro-light-emitting diodes with quantum dots in display technology](#)

Zhaojun Liu, Chun-Ho Lin, Byung-Ryool Hyun, Chin-Wei Sher, Zhijian Lv, Bingqing Luo, Fulong Jiang, Tom Wu, Chih-Hsiang Ho, Hao-Chung Kuo and Jr-Hau He

Light: Science & Applications 2020, **9**: 83; doi: 10.1038/s41377-020-0268-1

[Recent advances in 2D, 3D and higher-order topological photonics](#)

Minkyung Kim, Zubin Jacob and Junsuk Rho

Light: Science & Applications 2020, **9**: 130; doi: 10.1038/s41377-020-0331-y

[Low-dose real-time X-ray imaging with nontoxic double perovskite scintillators](#)

Wenjuan Zhu, Wenbo Ma, Yirong Su, Zeng Chen, Xinya Chen, Yaoguang Ma, Lizhong Bai, Wenge Xiao, Tianyu Liu, Haiming Zhu, Xiaofeng Liu, Huafeng Liu, Xu Liu and Yang (Michael) Yang

Light: Science & Applications 2020, **9**: 112; doi: 10.1038/s41377-020-00353-0

[Ten years of spasers and plasmonic nanolasers](#)

Shaimaa. Azzam¹, Alexander V. Kildishev, Ren-Min Ma, Cun-Zheng Ning, Rupert Oulton, Vladimir M. Shalaev, Mark I. Stockman, Jia-Lu Xu and Xiang Zhang

Light: Science & Applications 2020, **9**: 90; doi: 10.1038/s41377-020-0319-7

[Low-threshold topological nanolasers based on the second-order corner state](#)

Weixuan Zhang, Xin Xie, Huiming Hao, Jianchen Dang, Shan Xiao, Shushu Shi, Haiqiao Ni, Zhichuan Niu, Can Wang, Kuijuan Jin, Xiangdong Zhang and Xiulai Xu

Light: Science & Applications 2020, **9**: 109; doi: 10.1038/s41377-020-00352-1

[Simple experimental procedures to distinguish photothermal from hot-carrier processes in plasmonics](#)

Guillaume Baffou, Ivan Bordacchini, Andrea Baldi and Romain Quidant

Light: Science & Applications 2020, **9**: 108; doi: 10.1038/s41377-020-00345-0

[Electromagnetic chirality: from fundamentals to nontraditional chiroptical phenomena](#)

Jungho Mun, Minkyung Kim, Younghwan Yang, Trevon Badloe, Jincheng Ni, Yang Chen, Cheng-Wei Qiu and Junsuk Rho

Light: Science & Applications 2020, **9**: 139; doi: 10.1038/s41377-020-00367-8

[Malus-metasurface-assisted polarization multiplexing](#)

Liangui Deng, Juan Deng, Zhiqiang Guan, Jin Tao, Yang Chen, Yan Yang, Daxiao Zhang, Jibo Tang, Zhongyang Li¹, Zile Li, Shaohua Yu, Guoxing Zheng, Hongxing Xu, Cheng-Wei Qiu and Shuang Zhang

Light: Science & Applications 2020, **9**: 101; doi: 10.1038/s41377-020-0327-7

Outstanding Papers in 2021

[High-performance silicon-graphene hybrid plasmonic waveguide photodetectors beyond 1.55 \$\mu\text{m}\$](#)

Jingshu Guo, Jiang Li, Chaoyue Liu, Yanlong Yin, Wenhui Wang, Zhenhua Ni, Zhilei Fu, Hui Yu, Yang Xu, Yaocheng Shi, Yungui Ma, Shiming Gao, Limin Tong and Daoxin Dai

Light: Science & Applications 2020, **9**: 29; doi: 10.1038/s41377-020-0263-6

[High-temperature infrared camouflage with efficient thermal management](#)

Huanzheng Zhu, Qiang Li, Chunqi Zheng, Yu Hong, Ziquan Xu, HanWang, Weidong Shen, Sandeep Kaur, Pintu Ghosh and Min Qiu

Light: Science & Applications 2020, **9**: 60; doi: 10.1038/s41377-020-0300-5

[Black phosphorus-based photothermal therapy with aCD47-mediated immune checkpoint blockade for enhanced cancer immunotherapy](#)

Zhongjian Xie, Minhua Peng, Ruitao Lu, Xiangying Meng, Weiyuan Liang, Zhongjun Li, Meng Qiu, Bin Zhang, Guohui Nie, Ni Xie, Han Zhang and Paras N. Prasad

Light: Science & Applications 2020, **9**: 161; doi: 10.1038/s41377-020-00388-3

[Strain engineering of 2D semiconductors and graphene: from strain fields to band-structure tuning and photonic applications](#)

Zhiwei Peng, Xiaolin Chen, Yulong Fan, David J. Srolovitz and Dangyuan Lei

Light: Science & Applications 2020, **9**: 190; doi: 10.1038/s41377-020-00421-5