

# Outstanding Papers in 2021

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## [3D-printed miniature spectrometer for the visible range with a \$100 \times 100 \mu\text{m}^2\$ footprint](#)

Andrea Toulouse, Johannes Drozella, Simon Thiele, Harald Giessen, Alois Herkommer

*Light: Advanced Manufacturing*, 2021, **2**(1): 20-30. doi: 10.37188/lam.2021.002

## [Recent progress of skin-integrated electronics for intelligent sensing](#)

Dengfeng Li, Kuanming Yao, Zhan Gao, Yiming Liu, Xinge Yu

*Light: Advanced Manufacturing*, 2021, **2**(1): 39-58. doi: 10.37188/lam.2021.004

## [Recent Progress in Heterogeneous III-V-on-Silicon Photonic Integration](#)

Di Liang, John E. Bowers

*Light: Advanced Manufacturing*, 2021, **2**(1): 59-83. doi: 10.37188/lam.2021.005

## [3D printed micro-optics for quantum technology: Optimised coupling of single quantum dot emission into a single-mode fibre](#)

Marc Sartison, Ksenia Weber, Simon Thiele, Lucas Bremer, Sarah Fischbach, Thomas Herzog, Sascha Kolatschek, Michael Jetter, Stephan Reitzenstein, Alois Herkommer, Peter Michler, Simone Luca Portalupi, Harald Giessen

*Light: Advanced Manufacturing*. 2021, **2**. doi: 10.37188/lam.2021.006

## [Metasurfaces for manipulating terahertz waves](#)

Xiaofei Zang, Bingshuang Yao, Lin Chen, Jingya Xie, Xuguang Guo, Alexei V. Balakin, Alexander P. Shkurinov, Songlin Zhuang

*Light: Advanced Manufacturing*. 2021, **2**. doi: 10.37188/lam.2021.010

## [Digital holography in production: an overview](#)

Markus Fratz, Tobias Seyler, Alexander Bertz, Daniel Carl

*Light: Advanced Manufacturing*, 2021, **2**(3): 283-295. doi: 10.37188/lam.2021.015

## [Multi-material multi-photon 3D laser micro- and nanoprinting](#)

Liang Yang, Frederik Mayer, Uwe H. F. Bunz, Eva Blasco, Martin Wegener

*Light: Advanced Manufacturing*, 2021, **2**(3): 296-312. doi: 10.37188/lam.2021.017

## [Review of laser powder bed fusion \(LPBF\) fabricated Ti-6Al-4V: process, post-process treatment, microstructure, and property](#)

Sheng Cao, Yichao Zou, Chao Voon Samuel Lim, Xinhua Wu

*Light: Advanced Manufacturing*, 2021, **2**(3): 313-332. doi: 10.37188/lam.2021.020

## [Design and manufacture AR head-mounted displays: A review and outlook](#)

Dewen Cheng, Qiwei Wang, Yue Liu, Hailong Chen, Dongwei Ni, Ximeng Wang, Cheng Yao, Qichao Hou, Weihong Hou, Gang Luo, Yongtian Wang

*Light: Advanced Manufacturing*, 2021, **2**(3): 350-369. doi: 10.37188/lam.2021.024

## [Holography, and the future of 3D display](#)

Pierre-Alexandre Blanche

*Light: Advanced Manufacturing*, 2021, **2**(4): 446-459. doi: 10.37188/lam.2021.028