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JOURNAL NEWS AND ANNOUNCEMENTS

[New Lensless Camera Creates Detailed 3D Images Without Scanning](#)

Researchers have developed an easy-to-build camera that produces 3D images from a single 2D image without any lenses. In an initial application of the technology, the researchers plan to use the new camera, which they call DiffuserCam, to watch microscopic neuron activity in living mice without a microscope. Ultimately, it could prove useful for a wide range of applications involving 3D capture.

Announcement to the world-wide optics community

The OSA Board of Editors welcomes nominations for the position of Editor-in-chief of [Optics Express](#) with a three-year term to begin 1 January 2019. View the full [Announcement](#) for more information about the required qualifications and nomination process.



[Photon-number-resolving megapixel image sensor at room temperature without avalanche gain](#)

Jiaju Ma, Saleh Masoodian, Dakota A. Starkey, and Eric R. Fossum
Optica 4(12) 1474-1481 (2017) View: [HTML](#) | [PDE](#)



[DiffuserCam: lensless single-exposure 3D imaging](#)

Nick Antipa, Grace Kuo, Reinhard Heckel, Ben Mildenhall, Emrah Bostan, Ren Ng, and Laura Waller
Optica 5(1) 1-9 (2018) View: [HTML](#) | [PDE](#) [Suppl. Mat. (1)]



[Deep learning microscopy](#)

Yair Rivenson, Zoltán Göröcs, Harun Günaydin, Yibo Zhang, Hongda Wang, and Aydogan Ozcan
Optica 4(11) 1437-1443 (2017) View: [HTML](#) | [PDE](#) [Suppl. Mat. (1)]



[Monolithic ultra-high-Q lithium niobate microring resonator](#)

Mian Zhang, Cheng Wang, Rebecca Cheng, Amirhassan Shams-Ansari, and Marko Lončar
Optica 4(12) 1536-1537 (2017) View: [HTML](#) | [PDE](#)



[Coherent virtual absorption based on complex zero excitation for ideal light capturing](#)

Denis G. Baranov, Alex Krasnok, and Andrea Alù
Optica 4(12) 1457-1461 (2017) View: [HTML](#) | [PDE](#)



[Multi-photon detection using a conventional superconducting nanowire single-photon detector](#)

Clinton Cahall, Kathryn L. Nicolich, Nurul T. Islam, Gregory P. Lafyatis, Aaron J. Miller, Daniel J. Gauthier, and Jungsang Kim
Optica 4(12) 1534-1535 (2017) View: [HTML](#) | [PDE](#)



[Sparse blind deconvolution for imaging through layered media](#)

Daniel L. Marks, Okan Yurduseven, and David R. Smith
Optica 4(12) 1514-1521 (2017) View: [HTML](#) | [PDE](#)



[Ultrahigh-transparency, ultrahigh-haze nanoglass with fluid-induced switchable haze](#)

Sajad Haghaniifar, Tongchuan Gao, Rafael T. Rodriguez De Vecchis, Bradley Pafchek, Tevis D. B. Jacobs, and Paul W. Leu
Optica 4(12) 1522-1525 (2017) View: [HTML](#) | [PDE](#) [Suppl. Mat. (2)]



[Visual acuity in two-photon infrared vision](#)

Pablo Artal, Silvestre Manzanera, Katarzyna Komar, Adrián Gambín-Regadera, and Maciej Wojtkowski
Optica 4(12) 1488-1491 (2017) View: [HTML](#) | [PDE](#) [Suppl. Mat. (2)]



[High-harmonic generation in periodically poled waveguides](#)

Daniel D. Hickstein, David R. Carlson, Abijith Kowligy, Matt Kirchner, Scott R. Domingue, Nima Nader, Henry Timmers, Alex Lind, Gabriel G. Ycas, Margaret M. Murnane, Henry C. Kapteyn, Scott B. Papp, and Scott A. Diddams
Optica 4(12) 1538-1544 (2017) View: [HTML](#) | [PDE](#)

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