

## Ausgewählte Publikationen SCoPE

2020

<p><b>Highly efficient dual-fibre optical trapping with 3D printed diffractive Fresnel lenses</b> <i>A. Asadollahbaik, S. Thiele, K. Weber, A. Kumar, J. Drozella, A. Herkommer, H. Giessen, and J. Fick</i> ACS Photonics 7, 88 (2020)</p>
<p><b>Ultra-Efficient Silicon-on-Insulator Grating Couplers with Backside Metal Mirrors</b> <i>N. Hoppe, W. S. Zaoui, L. Rathgeber, Y. Wang, R. H. Klenk, W. Vogel, M. Kaschel, S. L. Portalupi, J. Burghartz, M. Berroth</i> IEEE J. Select. Topics Quantum Electron., Vol. 26, No. 2, 2020, pp. 1-6, Art no. 8200206. DOI: 10.1109/JSTQE.2019.2935296</p>

2019

<p><b>3D printed stacked diffractive microlenses</b> <i>S. Thiele, C. Pruss, A. Herkommer, und H. Giessen</i> Optics Express, 27(24), 35621-35630 (2019)</p>
<p><b>A 2x2 Pixel Array Camera based on a Backside Illuminated Ge-on-Si Photodetector</b> <i>A.C. Köllner, Z. Yu, M. Oehme, J. Anders, M. Kaschel, J. Schulze, J. N. Burghartz</i> 2019 IEEE SENSORS, 1-4</p>
<p><b>A CMOS NMR needle for probing brain physiology with high spatial and temporal resolution</b> <i>J. Handwerker, M. Perez-Rodas, M. Beyerlein, F. Vincent, A. Beck, N. Freytag, X. Yu, R. Pohmann, K. Scheffler, J. Anders</i> Nature methods 17 (1), 64-67 (2019)</p>
<p><b>A new SCAO control concept based on mechanical mirror modes for METIS</b> <i>P. Neureuther, T. Bertram, O. Sawodny</i> Adaptive Optics for Extremely Large Telescopes (AO4ELT6) (2019)</p>
<p><b>Augmented Reality Using High Resolution Adaptive Headlights</b> <i>C. Reinert-Weiss, D. Duhme, and N. Fruehauf</i> IEEE-Konferenz ICCE 2019, Las Vegas USA, 11.-13.01.2019 (2019)</p>
<p><b>CMOS integrated hyperpolarized NMR using NV centers in diamond</b> <i>J. Anders, I. Schwartz, K. Lips, MB. Plenio, F. Jelezko</i> Quantum Technologies and Quantum Information Science V 11167, 111670K (2019)</p>
<p><b>Co-Fabrication of Silicon based TFTs and Micro-Electro-Mechanical Devices</b> <i>N. Fruehauf, P. Schalberger, S. A. Nusayer, C. Jurgschat, and P. Mammel</i> IMID 2019 DIGEST 2019, 225 (2019)</p>
<p><b>Design of a freeform uniformity corrector lens for extended sources in elliptical reflectors</b> <i>D. Rausch, &amp; A. Herkommer</i> Journal of Physics: Photonics, 1(2), 024001 (2019)</p>
<p><b>Design of intra-cavity deformable mirrors for high-power lasers</b> <i>K. Schmidt; S. Piehler; B. Dannecker; T. Dietrich; A. Raisch; T. Graf; M. Abdou Ahmed; O. Sawodny</i> tm - Technisches Messen (2019)</p>
<p><b>Deterministic fabrication of circular Bragg gratings coupled to single quantum emitters via the combination of in-situ optical lithography and electron-beam lithography</b> <i>S. Kolatschek, S. Hepp, M. Sartison, M. Jetter, P. Michler, and S.L. Portalupi</i> J. Appl. Phys. 125, 045701 (2019)</p>
<p><b>Entwurf deformierbarer Spiegel für den Einsatz in Hochleistungslasern</b> <i>K. Schmidt, S. Piehler, B. Dannecker, T. Dietrich, A. Raisch, T. Graf, M. Abdou Ahmed, and O. Sawodny</i> tm – Technisches Messen 86 (3), (2019) <a href="https://doi.org/10.1515/teme-2019-000">https://doi.org/10.1515/teme-2019-000</a></p>

<p><b>Gaussian Process Based Multi-Rate Observer for the Dynamic Positioning Error of a Measuring Machine</b>  <i>M. Ringkowski; O. Sawodny</i>  European Control Conference (ECC) (2019)</p>
<p><b>Improved Optical 1xN On-Chip-Switches Based on Generalized Mach-Zehnder Interferometers</b>  <i>N. Hoppe, L. Kauke, L. Rathgeber, T. Föhn, W. Vogel, M. Berroth</i>  International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD), Ottawa, Canada, 2019, MP04, pp. 27-28. DOI: 10.1109/NUSOD.2019.8806903</p>
<p><b>InAs quantum dots grown on metamorphic buffers as non-classical light sources at telecom C-band: a review</b>  <i>S. L. Portalupi, M. Jetter, and P. Michler</i>  Semicond. Sci. Technol. 34, 053001 (2019)</p>
<p><b>Interplay between electronic and structural transitions in vanadium dioxide revealed by ellipsometry</b>  <i>I. Voloshenko, B. Gompf, A. Berrier, G. Schnoering, F. Kuhl, A. Polity, M. Dressel</i>  J. Vacuum Science and Technology B39, 061202 (2019)</p>
<p><b>Inversion of coupled parabolic PDEs with distributed acting inputs for feedforward controlling thermoelastic deformations</b>  <i>K. Schmidt; O. Sawodny</i>  American Control Conference (ACC) (2019)</p>
<p><b>In-vitro monitoring conformational changes of polypeptide monolayers using infrared plasmonic nanoantennas</b>  <i>R. Semenyshyn, M. Hentschel, C. Stanglmair, T. Teutsch, C. Tarin, C. Pacholski, H. Giessen, and F. Neubrech</i>  Nano Lett. 19, 1 (2019)</p>
<p><b>Low temperature processed TFTs with Ar+O2+H2-sputtered IGZO channel and high-κ anodic-Al2O3 dielectric for flexible devices</b>  <i>S. Aman, G. Mehadi and R. Higashi, Y. Hirota, Y. Magari, D. Koretomo, N. Fruehauf, and M. Furuta,</i>  Abstracts of the 15th ITC (2019)</p>
<p><b>Merging transformation optics with electron-driven photon sources</b>  <i>N. Talebi, S. Meuret, S. Guo, M. Hentschel, A. Polman, H. Giessen, and P. A. van Aken</i>  Nat. Commun. 10, 599 (2019).</p>
<p><b>Mueller matrix metrology: Depolarization reveals size distribution</b>  <i>I. Voloshenko, B. Gompf, A. Berrier, M. Dressel, G. Schnoering, M. Rommel, J. Weis</i>  Appl. Phys. Lett. 115, 063106 (2019)</p>
<p><b>On compensating thermal lensing in high-power lasers using intra-cavity deformable mirrors</b>  <i>K. Schmidt; T. Dietrich; B. Dannecker; T. Graf; M. Abdou Ahmed; O. Sawodny</i>  8th IFAC Symposium on Mechatronics (2019)</p>
<p><b>Optical Gain and Lasing Properties of InP/AlGaInP Quantum-Dot Laser Diode Emitting at 660 nm</b>  <i>Z. Huang, M. Zimmer, S. Hepp, M. Jetter, and P. Michler</i>  IEEE Journal of Quantum Electronics 55, 2000307 (2019)</p>
<p><b>Semiconductor Quantum Dots for Integrated Quantum Photonics</b>  <i>S. Hepp, M. Jetter, S. L. Portalupi, and P. Michler</i>  Adv. Quantum Technol. 1900020 (2019)</p>
<p><b>Single-photon light-emitting diodes based on preselected quantum dots using a deterministic lithography technique</b>  <i>M. Sartison, S. Seyfferle, S. Kolatschek, S. Hepp, M. Jetter, P. Michler, and S. L. Portalupi</i>  Appl. Phys. Lett. 114, 222101 (2019)</p>
<p><b>Towards IC-based quantum sensing-recent achievements and future research trends</b>  <i>J. Anders, T. Pfau, J. Wrachtrup, M. B. Plenio, F. Jelezko, K. Lips</i>  2018 48th European Solid-State Device Research Conference (ESSDERC), 122-125 (2019)</p>

2018

<p><b>A Nyquist rate SAR ADC employing incremental sigma delta DAC achieving peak SFDR= 107 dB at 80 kS/s</b>  <i>A. Al Marashli, J. Anders, J. Becker, M. Ortmanns</i>          IEEE Journal of Solid-State Circuits 53 (5), 1493-1507 (2018)</p>
<p><b>A room-temperature single-photon source based on strongly interacting Rydberg atoms</b>  <i>F. Ripka, H. Kübler, R. Löw, T. Pfau</i>          Science. 362, 446-449 (2018)</p>
<p><b>A transimpedance amplifier based on an {LTPS} process operated in alkali vapor for the measurement of an ionization current</b>  <i>J. Schmidt, P. Schalberger, H. Baur, R. Loew, T. Pfau, H. Kuebler, and N. Fruehauf</i>          Proceedings Volume 10674, Quantum Technologies 2018; 106740D (2018)</p>
<p><b>Alignment-free integration of apertures and non-transparent hulls into 3D-printed micro-optics</b>  <i>A. Toulouse, S. Thiele, H. Giessen, and A. Herkommer</i>          Opt. Lett., vol. 43, no. 5283, 2018</p>
<p><b>An optogalvanic gas sensor for nitric oxide based on Rydberg excitations</b>  <i>J. Schmidt, M. Fiedler, R. Albrecht, D. Djekic, P. Schalberger, H. Baur, R. Löw, N. Fruehauf, T. Pfau, J. Anders, E. R. Grant, H. Kübler</i>          Atomic Physics (2018)</p>
<p><b>Characterization of Electro-Optical Devices with Low Jitter Single Photon Detectors - Towards an Optical Sampling Oscilloscope Beyond 100 GHz”</b>  <i>H. Fedder, S. Oesterwind, M. Wick, I. Shavrin, M. Schlagmüller, F. Olbrich, P. Michler, T. Veigel, M. Berroth, N. Walter, W. Hartmann, W. Pernice, V. Kovalyuk, M. Schlagmuller</i>          European Conference and Exhibition on Optical Communication (ECOC), Rome, Italy, (2018) pp. 1-3. DOI: 10.1109/ECOC.2018.8535415</p>
<p><b>Chem/bio sensing with non-classical light and integrated photonics</b>  <i>J. Haas, M. Schwartz, U. Rengstl, M. Jetter, P. Michler and B. Mizaikoff</i>          Analyst, 143, 583 (2018), Advance Article (<a href="#">url</a>)</p>
<p><b>Deterministic integration and optical characterization of telecom O-band quantum dots embedded into wet-chemically etched Gaussian-shaped microlenses</b>  <i>M. Sartison, L. Engel, S. Kolatschek, F. Olbrich, C. Nawrath, S. Hepp, M. Jetter, P. Michler, and S.L. Portalupi</i>          Appl. Phys. Lett. 113, 032103 (2018)</p>
<p><b>Engineering of Germanium Tunnel Junctions for Optical Applications</b>  <i>R. Koerner, I. A. Fischer, D. Schwarz, C. Clausen, N. Hoppe, J. Schulze, Jörg</i>          IEEE Photonics Journal, Vol. 10, No. 2, 2018, pp. 2200912, 1-12. DOI: 10.1109/JPHOT.2018.2818662</p>
<p><b>Fully On-Chip Single-Photon Hanbury-Brown and Twiss Experiment on a Monolithic Semiconductor-Superconductor Platform</b>  <i>M. Schwartz, E. Schmidt, U. Rengstl, F. Hornung, S. Hepp, S.L. Portalupi, K. Ilin, M. Jetter, M. Siegel, and P. Michler</i>          Nano Lett. 18, 6892 (2018)</p>
<p><b>Gold nanocrystal-mediated sliding of doublet DNA origami filaments</b>  <i>M. J. Urban, S. Both, C. Zhou, A. Kuzyk, K. Lindfors, T. Weiss, and N. Liu</i>          Nat. Commun. 9, 1454 (2018)</p>
<p><b>How to calculate the pole expansion of the optical scattering matrix from the resonant states</b>  <i>T. Weiss and E. A. Muljarov</i>          Phys. Rev. B 98, 085433 (2018)</p>
<p><b>Impedance spectroscopy and equivalent circuits of metal-dielectric composites around the percolation threshold</b>  <i>B. Gompf, M. Dressel, A. Berrier</i>          Appl. Phys. Lett. 113, 243104 (2018)</p>

<p><b>Infrared reflectance factor of various asphalts</b>  <i>A. Baumgartner, A. Amann, C. Müller, A. Herkommer, M. Dressel, S. Fella</i>  Proc. SPIE 19783, 10783 (2018)</p>
<p><b>Large Area Microelectronics - Technology and Trends</b>  <i>N. Fruehauf, N. Kammoun, S.A. Nusayer, C. Reinert-Weiss, and P. Schalberger</i>  AM-FPD'18 in Kyoto, Japan, The Proceedings of AM-FPD'18, 1-1 (2018)</p>
<p><b>Low Temperature Manufacturing Processes for Flexible Liquid Crystal Cells</b>  <i>P. Schalberger, and S.A. Nusayer, A. Giraldo, B. Kundu, D. Pires, and R. Scholl</i>  Proceedings of the SID-ME spring meeting 2018, Jena (2018)</p>
<p><b>Model Predictive Control of Multi-Mirror Adaptive Optics Systems</b>  <i>Martin Glück; Jörg-Uwe Pott; Oliver Sawodny</i>  IEEE Conference on Control Technology and Applications (CCTA) (2018)</p>
<p><b>Modeling and simulating the thermoelastic deformation of mirrors using transient multilayer models</b>  <i>K. Schmidt; P. Wittmüß; S. Piehler; M. Abdou Ahmed; T. Graf; O. Sawodny</i>  Mechatronics (2018)</p>
<p><b>Modellierung optisch adressierter Spiegel für adaptive Hochleistungslaser</b>  <i>K. Schmidt; P. Wittmüß; S. Piehler; M. Abdou Ahmed; T. Graf; O. Sawodny</i>  at – Automatisierungstechnik (2018)</p>
<p><b>Near-Infrared Optical Investigations of Snow, Ice and Water Layers on Diffuse Reflecting Surfaces</b>  <i>A. Baumgartner, A. Amann, M. Merz, A. herkommer, M. Dressel, S. Fella</i>  Rev. Scientific Instruments 89, 123106 (2018)</p>
<p><b>On the depolarization in granular thin films: a Müller-matrix approach</b>  <i>B. Gompf, M. Gill, M. Dressel, A. Berrier</i>  Journal of the OSA A35 (2018)</p>
<p><b>Organic thin film transistors on back molded plastic foil</b>  <i>P. Gaucci, N. Fruehauf, A. Ilchmann, B. Polzinger, W. Eberhardt, and H. Kueck</i>  IOP Publishing Ltd, Flexible and Printed Electronics, Vol. 3, No. 1 (2018)</p>
<p><b>Process Optimization for TFT Integrated MEMS Shutter Display</b>  <i>S.A. Nusayer, P. Schalberger, H. Baur, C. Jurgschat, and N. Fruehauf</i>  IDW'18, Nagoya/Japan, Proceedings of Int. Display Workshop, S. 1356-1359 (2018)</p>
<p><b>Proof of concept for an optogalvanic gas sensor for {NO} based on Rydberg excitations</b>  <i>J. Schmidt, M. Fiedler, R. Albrecht, D. Djekic, P. Schalberger, H. Baur, R. Loew, N. Fruehauf, T. Pfau, J. Anders, E. Grant, and H. Kuebler</i>  Appl. Phys. Lett. 1, 7, p. 011113 (2018)</p>
<p><b>Proof of concept for an optogalvanic gas sensor for NO based on Rydberg excitations</b>  <i>J. Schmidt, M. Fiedler, R. Albrecht, D. Djekic, P. Schalberger, H. Baur, R. Löw, N. Fruehauf, T. Pfau, J. Anders, E. R. Grant, H. Kübler</i>  Applied Physics Letters 113 (1), 011113 (2018)</p>
<p><b>Pure circular dichroism by curved rows of plasmonic nanoparticles</b>  <i>M. Wang, B. Gompf, M. Dressel, N. Destouches, A. Berrier</i>  Optica Materials Express 8, 1215 (2018)</p>
<p><b>Pure single-photon emission from In(Ga)As QDs in a tunable fiber-based external mirror microcavity</b>  <i>T. Herzog, M. Sartison, S. Kolatschek, S. Hepp, A. Bommer, C. Pauly, F. Mücklich, C. Becher, M. Jetter, S. L. Portalupi, and P. Michler</i>  Quantum Sci. Technol.3, 034009 (2018)</p>
<p><b>Resonant-state expansion for open optical systems: Generalization to magnetic, chiral, and bi-anisotropic materials</b>  <i>E. A. Muljarov, and T. Weiss</i>  Opt. Lett. 43, 1978 (2018)</p>

<p><b>Signatures of single-photon interaction between two quantum dots located in different cavities of a weakly coupled double microdisk structure</b>  <i>S. Seyfferle, F. Hargart, M. Jetter, E. Hu, and P. Michler</i>  Phys. Rev. B 97, 035302 (2018) (<a href="#">url</a>)</p>
<p><b>TFT Integrated Microelectromechanical Shutter for Display Application</b>  <i>S.A. Nusayer, P. Schalberger, H. Baur, and N. Fruehauf</i>  SID Display Week 2018, Los Angeles/USA, Digest of Technical Papers, Session 39-4, Seiten 498-501 (2018)</p>
<p><b>The MICADO First Light Imager for ELT: Control Concept for the Derotator</b>  <i>M. Glück; J.-U. Pott; O. Sawodny</i>  SPE Conference on Astronomical Telescopes and Instrumentation (2018)</p>
<p><b>Thin-disk oscillator delivering radially polarized beams with up to 980W of CW output power</b>  <i>T. Dietrich, M. Rumpel, F. Beirrow, C. May Mateo, C. Pruss, W. Osten, M. Abdou Ahmed, and T. Graf</i>  Opt. Lett. 43, 1371-1374 (2018)</p>
<p><b>Two-photon interference in an atom-quantum dot hybrid system</b>  <i>H. Vural, S.L. Portalupi, J. Maisch, S. Kern, J. Weber, M. Jetter, J. Wrachtrup, R. Löw, I. Gerhardt, and P. Michler</i>  <i>Optica</i> 5, 367 (2018)</p>

## 2017

<p><b>3D printed eagle eye: Compound microlens system for foveated imaging</b>  <i>S. Thiele, K. Arzenbacher, T. Gissibl, H. Giessen, and A. M. Herkommer</i>  <i>Science Advances</i> 3, e1602655 (2017)</p>
<p><b>A transimpedance amplifier based on a LTPS process operated in alkali vapor</b>  <i>J. Schmidt, P. Schalberger, H. Baur, R. Löw, T. Pfau, H. Kübler and N. Frühauf</i>  24th International Workshop on Active-Matrix Flatpanel Displays and Devices (AM-FPD)</p>
<p><b>Analysis and efficient numerical simulations of subfemtosecond time-resolved PEEM experiments with plasmons</b>  <i>T. J. Davis, B. Frank, D. Podbiel, P. Kahl, F.-J. Meyer zu Heringdorf, and H. Giessen</i>  ACS Photonics 4, 2461 (2017)</p>
<p><b>Analytic optimization of near-eld optical chirality enhancement</b>  <i>C. Kramer, M. Schäferling, T. Weiss, H. Giessen, and T. Brixner</i>  ACS Photonics 4, 396-406 (2017)</p>
<p><b>Analytical Normalization of Resonant States in Photonic Crystal Slabs and Periodic Arrays of Nanoantennas at Oblique Incidence</b>  <i>T. Weiss, M. Schäferling, H. Giessen, N. A. Gippius, S. G. Tikhodeev, W. Langbein, and E. A. Muljarov</i>  Phys. Rev. B 96, 045129 (2017)</p>
<p><b>Betrieb eines Transimpedanzverstärkers basierend auf einem LTPS Prozess in einem Alkalidampf</b>  <i>J. Schmidt, P. Schalberger, H. Baur, R. Löw, T. Pfau, H. Kübler und N. Frühauf</i>  AM-FPD 2017, Proceedings No. 7-3, Kyoto, Japan</p>
<p><b>Combining in-situ lithography with 3D printed solid immersion lenses for single quantum dot spectroscopy</b>  <i>M. Sartison, S. Portalupi, T. Gissibl, M. Jetter, H. Giessen &amp; P. Michler</i>  Scientific Reports 7, Article number: 39916 (2017)</p>
<p><b>Deformable mirrors for intra-cavity use in high-power thin-disk lasers</b>  <i>S. Piehler, T. Dietrich, P. Wittmüss, O. Sawodny, M. A. Ahmed, T. Graf T.</i>  Optics Express; 2017, 25 (4), pp. 4254-4267</p>
<p><b>Disturbance Feedforward Control for Vibration Suppression in Adaptive Optics of Large Telescopes</b>  <i>M. Glück; J. Pott; O. Sawodny</i>  AO4ELT5 (2017)</p>

<p><b>Fiber-integrated spectroscopy device for hot alkali vapor</b>  <i>J. Gutekunst, D. Weller, H. Kübler, J. Negel, M. A. Ahmed, T. Graf, and R. Löw</i>  <i>Appl. Opt.</i> 56, Issue 21, 5898-5902 (2017), 10.1364/AO.56.005898</p>
<p><b>Heat sink sandwich extends wavelength for semiconductor membrane laser</b>  H. Kahle, C.M. Mateo, R. Bek, M Jetter and U. Brauch  <i>Laser Focus World</i> 53, 70 (2017)</p>
<p><b>High-power single-stage single-crystal Yb:YAG fiber amplifier for radially polarized ultrashort laser pulses</b>  <i>M. Eckerle, F. Beirrow, T. Dietrich, F. Schaal, C. Pruss, W. Osten, N. Aubry, M. Perrier, J. Didierjean, X. Délen, F. Balembos, P. Georges, M. A. Ahmed, T. Graf</i>  <i>Applied Physics B</i> (2017) 123:139</p>
<p><b>Illumination design for extended sources based on phase space mapping. Optical Engineering</b>  <i>D. Rausch, M. Rommel, A. Herkommer, &amp; T. Talpur</i>  56(6), 065103 (2017)</p>
<p><b>Imaging the Nonlinear Plasmoemission Dynamics of Electrons from Strong Plasmonic Fields</b>  <i>D. Podbiel, P. Kahl, A. Makris, B. Frank, S. Sindermann, T. J. Davis, H. Giessen, M. Horn-von Hoegen, and F.-J. Meyer zu Heringdorf</i>  <i>Nano Lett.</i> 17, 6569 (2017)</p>
<p><b>Improving the performance of interferometric imaging through the use of disturbance feedforward</b>  <i>M. Böhm; M. Glück; A. Keck; J.-U. Pott; O. Sawodny</i>  <i>Journal of the Optical Society of America A</i> (2017)</p>
<p><b>Large-area two-dimensional plasmonic meta-glasses and meta-crystals: a comparative study</b>  <i>S. De Zuani, M. Rommel, R. Vogelgesang, J. Weis, B. Gompf, M. Dressel, A. Berrier</i>  <i>Plasmonics</i> 12, 1381 (2017)</p>
<p><b>Mathematical Modeling of a Plasmonic Palladium-Based Hydrogen Sensor</b>  <i>T. Teutsch, N. Strohfeltd, F. Sterl, A. Warsewa, E. Herkert, D. Paone, H. Giessen, and C. Tarin</i>  <i>IEEE Sens. J.</i> (2017)</p>
<p><b>Nearly diffraction limited FTIR mapping using an ultrastable broadband Unbiased all-optical random-number generator</b>  <i>T. Steinle, J. N. Greiner, J. Wrachtrup, H. Giessen, and I. Gerhardt</i>  <i>Phys. Rev. X</i> 7, 041050 (2017)</p>
<p><b>Physical interpretation of Mueller matrix spectra: a versatile method applied gold gratings</b>  <i>M. Wang, A. Löhle, B. Gompf, M. Dressel, A. Berrier</i>  <i>Opt. Express</i> 25, 6983 (2017)</p>
<p><b>Polarization-entangled photons from an InGaAs-based quantum dot emitting in the telecom C-band</b>  F. Olbrich, J. Hörschele, M. Müller, J. Kettler, S. L. Portalupi, M. Paul, M. Jetter and P. Michler  <i>Appl. Phys. Lett.</i> 111, 133106 (2017)</p>
<p><b>Investigations of an Accelerometer-based Disturbance Feedforward Control for Vibration Suppression in Adaptive Optics of Large Telescopes</b>  <i>M. Glück; J.-U. Pott; O. Sawodny</i>  Publications of the Astronomical Society of the Pacific (2017)</p>
<p><b>Quantum-Dot Single-Photon Sources for Entanglement Enhanced Interferometry</b>  <i>M. Müller, H. Vural, C. Schneider, A. Rastelli, O.G. Schmidt, S. Höfling, and P. Michler</i>  <i>Phys. Rev. Lett.</i> 118, 257402 (2017)</p>
<p><b>Schottky-Fotodioden basierend auf laserkristallisierten Germanium-Schichten</b>  <i>F. Dreyer, N. Hoppe, J. Köhler, W. Vogel, M. Dahlinger, M. Félix Rosa, L. Rathgeber, J. Werner, M. Berroth</i>  Kleinheubacher Tagung, U.R.S.I. Landesausschuss in der Bundesrepublik Deutschland e.V. Book of Abstracts, Miltenberg, 2017, KH2017-Di-D2-04</p>
<p><b>Sealed and Compact Fiber Links to Integrated Photonics Using Grating Couplers</b>  <i>N. Hoppe, M. Haug, T. Polder, M. Félix Rosa, W. Vogel, P. Scheck, L. Rathgeber, D. Widmann, M. Berroth</i>  IEEE International Conference on Group IV Photonics, Berlin, Germany, 2017, pp. 139–140. doi: 10.1109/GROUP4.2017.8082235</p>

<p><b>Short-range surface plasmonics: Localized electron emission dynamics from a 60 nm spot on an atomically at single crystalline gold surface</b>  <i>B. Frank, P. Kahl, D. Podbiel, G. Spektor, M. Orenstein, L. Fu, T. Weiss, M. Horn-von Hogen, T. J. Davis, F.-J. Meyer von Heringdorf, and H. Giessen</i>  <i>Science Advances 3, e1700721 (2017)</i></p>
<p><b>Single mode fiber based delivery of OAM light by 3D direct laser writing</b>  <i>K. Weber, F. Hütt, S. Thiele, T. Gissibl, A. Herkommer, and H. Giessen</i>  <i>Opt. Express 25, 19672 (2017)</i></p>
<p><b>Single Quantum Dot with microlens and 3D printed microobjective as integrated bright single photon source</b>  <i>S. Fischbach, A. Schlehahn, A. Thoma, N. Srocka, T. Gissibl, S. Ristok, S. Thiele, A. Kaganskiy, A. Strittmatter, T. Heindel, S. Rodt, A. Herkommer, H. Giessen, and S. Reitzenstein</i>  <i>ACS Photonics 4, 1327 (2017)</i></p>
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**Triggered single-photon emission in the red spectral range from optically excited InP/(Al,Ga)InP quantum dots embedded in micropillars up to 100 K**

*M. Bommer, W.-M. Schulz, R. Roßbach, M. Jetter, P. Michler, T. Thomay, A. Leitenstorfer, and R. Bratschitsch*  
J. Appl. Phys. 110, 063108 (2011)

**Wavelength tunable ultraviolet laser emission via intra-cavity frequency doubling of an AlGaInP vertical external-cavity surface-emitting laser down to 328 nm**

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