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**List of publications:
(as of February 1, 2018)**

Basic bibliometric data:

> 360 journal publications
> 9100 citations (Web-of-Science), > 12000 (Google Scholar)
17 patents or patent applications
8 books and book articles
h-index: 58 (Google Scholar), 50 (Web-of-Science)

Journal articles:

2018

373.) Mustahsin Adib, Ralph Eckstein, Gerardo Hernandez-Sosa, Martin Sommer, and Uli Lemmer, *SnO₂ Nanowire-Based Aerosol Jet Printed Electronic Nose as Fire Detector*, IEEE Sens. J. **18**, 494 (2018).

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372.) M. F. Schumann, B. Fritz, R. Eckstein, U. Lemmer, G. Gomard, and M. Wegener, Cloaking of metal grid electrodes on Lambertian emitters by free-form refractive surfaces, Opt. Lett. **43**, 527 (2018).

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371.) F. Mathies, P. Brenner, G. Hernandez-Sosa, I. A. Howard, U. W. Paetzold, U. Lemmer, *Inkjet-printed perovskite distributed feedback lasers*, Optics Express **26**, A144 (2018).

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370.) S. Schauer, R. Schmager, R. Hünig, K. Ding, U. W. Paetzold, U. Lemmer, M. Worgull, H. Hölscher, and Guillaume Gomard, *Disordered diffraction gratings tailored by shape-memory based wrinkling and their application to photovoltaics*,

2017

369.) Tobias Abzieher, Florian Mathies, Michael Hetterich, Alexander Welle, Dagmar Gerthsen, Uli Lemmer, Ulrich W. Paetzold, and Michael Powalla, *Additive-Assisted Crystallization Dynamics in Two-Step Fabrication of Perovskite Solar Cells*, Phys. Status Solidi A **214**, 1700509 (2017).

<https://doi.org/10.1002/pssa.201700509>

368.) David Jahn, Ralph Eckstein, Lorenz Maximilian Schneider, Norman Born, Gerardo Hernandez-Sosa, Jan C. Balzer, Ibraheem Al-Naib, Uli Lemmer, and Martin Koch, *Digital Aerosol Jet Printing for the Fabrication of Terahertz Metamaterials*, Adv. Mater. Technol. In press (2017)

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367.) T. Rödlmeier, T. Marszalek, M. Held, S. Beck, C. Müller, R. Eckstein, A. J. Morfa, R. Lovrincic, A. Pucci, U. Lemmer, J. Zaumseil, W. Pisula, and G. Hernandez-Sosa, *Controlled Molecular Orientation of Inkjet Printed Semiconducting Polymer Fibers by Crystallization Templating*, Chem. Mater, 29 10150 (2017).

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366.) Raphael Schmager, Benjamin Fritz, Ruben Hünig, Kaining Ding, Uli Lemmer, Bryce S. Richards, Guillaume Gomard, and Ulrich W. Paetzold, *Texture of the Viola Flower for Light Harvesting in Photovoltaics*, ACS Photonics **4**, 2687 (2017).

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365.) P. Brenner, T. Glöckler, D. Rueda-Delgado, T. Abzieher, M. Jakoby, B. S. Richards, U. W. Paetzold, I. A. Howard, and U. Lemmer, *Triple cation mixed-halide perovskites for tunable lasers*, Opt Mater Express **7**, 4082 (2017).

<https://doi.org/10.1364/OME.7.004082>

364.) Anne Habermehl, Noah Strobel, Ralph Eckstein, Nico Bolse, Adrian Mertens, Gerardo Hernandez-Sosa, Carsten Eschenbaum, and Uli Lemmer, *Lab-on-Chip, Surface-Enhanced Raman Analysis by Aerosol Jet Printing and Roll-to-Roll Hot Embossing*, Sensors **17**, 2401 (2017).

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363.) Radwanul H. Siddique, Yidenekachew J. Donie, Guillaume Gomard, Sisir Yalamanchili, Tsvetelina Merdzhanova, Uli Lemmer, Hendrik Hölscher, *Bioinspired phase-separated disordered nanostructures for thin photovoltaic absorbers*, Sci. Adv. **3**, e1700232 (2017).

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361.) Dominik Theobald, Amos Egel, Guillaume Gomard, and Uli Lemmer, *Plane-wave coupling formalism for T-matrix simulations of light scattering by nonspherical particles* Phys. Rev. A **96**, 033822 (2017).

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- 360.) Amos Egel, Yuri Eremin, Thomas Wriedt, Dominik Theobald, Uli Lemmer, Guillaume Gomard, *Extending the applicability of the T-matrix method to light scattering by flat particles on a substrate via truncation of sommerfeld integrals*, J. Quant. Spectrosc. Radiat. Transfer **202**, 279 (2017).
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- 359.) A Egel, L Pattelli, G Mazzamuto, DS Wiersma, U Lemmer, *CELES: CUDA-accelerated simulation of electromagnetic scattering by large ensembles of spheres*, J. Quant. Spectrosc. Radiat. Transfer **199**, 103 (2017).
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- 358.) N. Bolse, R. Eckstein, M. Schend, A. Habermehl, G. Hernandez-Sosa, C. Eschenbaum, U. Lemmer, *Discrimination of trace nitroaromatics using linear discriminant analysis on aerosol jet printed fluorescent sensor arrays*, Proc. SPIE **10231**, 102310R (2017).
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- 356.) Marina Gerhard, Andreas P. Arndt, Mühenad Bilal, Uli Lemmer, Martin Koch, and Ian A. Howard, *Field-induced exciton dissociation in PTB7-based organic solar cells*, Phys. Rev. **B 95**, 195301 (2017)
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- 355.) J. Preinfalk, T. Eiselt, T. Wehls, V. Rohnacher, T. Hanemann, G. Gomard, U. Lemmer, *Large-area screen-printed internal extraction layers for organic light emitting diodes*, ACS Photonics **4**, 928 (2017)
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- 354.) N. Bolse, R. Eckstein, M. Schend, A. Habermehl, C. Eschenbaum, G. Hernandez-Sosa and U. Lemmer, *A digitally printed optoelectronic nose for the selective trace detection of nitroaromatic explosive vapours using fluorescence quenching*, Flex. Print. Electron. **2**, 024001 (2017).
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- 353.) P. Brenner, O Bar-On, T. Siegle, T. Leonhard, R. Gvishi, C. Eschenbaum, H. Kalt, J. Scheuer and U. Lemmer, *3D whispering-gallery-mode microlasers by direct laser writing and subsequent soft nanoimprint lithography*, Appl. Opt. **56**, 3703 (2017).
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344.) Thomas Eiselt, Guillaume Gomard, Jan Preinfalk, Uwe Gleißner, Uli Lemmer, Thomas Hanemann, *Development and characterization of high refractive index and high scattering acrylate polymer layers*, Opt. Eng. **55**, 117106 (2016).
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