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**List of publications:
(as of Dec 31st, 2021)**

Basic bibliometric data:

> 450 journal publications
> 14000 citations (Web-of-Science), > 19000 (Google Scholar)
17 patent families or patent applications
9 books and book articles
h-index: 71 (Google Scholar), 61 (Web-of-Science)

Journal articles:

2022

475.) Abed Alrhman Eliwi, Mahdi Malekshahi Byranvand, Paul Fassel, Motiur Rahman Khan, Ihtezaz Muhaimin Hossain, Markus Frericks, Simon Ternes, Tobias Abzieher, Jonas A. Schwenzler, Thomas Mayer, Jan P. Hofmann, Bryce S. Richards, Uli Lemmer, Michael Saliba, and Ulrich W. Paetzold, *Optimization of SnO₂ electron transport layer for efficient planar perovskite solar cells with very low hysteresis*, Mater. Adv. (in press) (2022).

<https://doi.org/10.1039/d1ma00585e>

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474.) Junchi Chen, Dominik Theobald, Abdullah Bin Shams, Qihao Jin, Adrian Mertens, Guillaume Gomard, and Uli Lemmer, *Silver-Nanoparticle-Based Metallodielectric Wavelength-Selective Reflectors for Quantum-Dot-Enhanced White-Light-Emitting Diodes*, ACS Appl. Nano Mater. (in press) (2021).

<https://doi.org/10.1021/acsanm.1c02885>

473.) Md Mofasser Mallick, Avishek Sarbajna, Andres Georg Rösch, Leonard Franke, Holger Geßwein, Yolita M. Eggeler, Uli Lemmer, Ultra-flexible β -Cu₂- δ Se-based p-type printed thermoelectric films, Applied Materials Today (in press) (2021).

<https://doi.org/10.1016/j.apmt.2021.101269>

472.) Shudong Yu, Bing Guo, Siegbert Johnsen, Gabriele Wiegand, Uli Lemmer, Xia Guo, Maojie Zhang, Yongfang Li, Christian Sprau, Hendrik Hölscher, Alexander Colsmann, and Guillaume Gomard, *Nanoporous Polymer Reflectors for Organic Solar Cells*, *Energy Technol.* 2100676 (2021).

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471.) Yidenekachew J. Donie, Yingxuan Yuan, Isabel Allegro, Fabian Schackmar, Ihteaz M. Hossain, Robert Huber, Julie Roger, Ulrich W. Paetzold, Guillaume Gomard, Uli Lemmer, *A Self-Assembly Method for Tunable and Scalable Nano-Stamps: A Versatile Approach for Imprinting Nanostructures*, *Adv. Mater. Technol.* 2101008 (2021).

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470.) Md Mofasser Mallick, Leonard Franke, Andres Georg Rösch, Sarfraz Ahmad, Holger Geßwein, Yolita M. Eggeler, Magnus Rohde, and Uli Lemmer, *Realizing High Thermoelectric Performance of Bi-Sb-Te-Based Printed Films through Grain Interface Modification by an In Situ Grown β -Cu₂- δ Se Phase*, *ACS Appl. Mater. Interfaces* **13**, 61386 (2021).

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469.) Peter Krebsbach, Stefan Schlißke, Noah Strobel, Mervin Seiberlich, Luis A. Ruiz-Preciado, Christian Rainer, Xiaokun Huang, Uli Lemmer, and Gerardo Hernandez-Sosa, *Inkjet-Printed Tin Oxide Hole-Blocking Layers for Organic Photodiodes*, *ACS Appl. Electron. Mater.* **3**, 4959 (2021).

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468.) Qihao Jin, Qiaoshuang Zhang, Junchi Chen, Tim Gehring, Santiago Eizaguirre, Robert Huber, Guillaume Gomard, Uli Lemmer, Rainer Kling, *High Dynamic Range Smart Window Display by Surface Hydrophilization and Inkjet Printing*, *Adv. Mater. Technol.* 2101026 (2021).

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467.) Somayeh Moghadamzadeh, Ihteaz M Hossain, Moritz Loy, David Benedikt Ritzer, Hang Hu, Dirk Hauschild, Adrian Mertens, Jan-Philipp Becker, Amir A Haghghirad, Erik Ahlswede, Lothar Weinhardt, Uli Lemmer, Bahram Abdollahi Nejand, Ulrich W Paetzold, *In₂O₃:H-Based Hole-Transport-Layer-Free Tin/Lead Perovskite Solar Cells for Efficient Four-Terminal All-Perovskite Tandem Solar Cells*, *ACS Appl. Mater. Interfaces* **13**, 46488 (2021).

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466.) Yang Li, Isabel Allegro, Milian Kaiser, Aditya J. Malla, Bryce S. Richards, Uli Lemmer, Ulrich W. Paetzold, Ian A. Howard, *Exciton versus free carrier emission: Implications for photoluminescence efficiency and amplified spontaneous emission thresholds in quasi-2D and 3D perovskites*, *Materials Today* **49**, 35 (2021).

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465.) Saba Gharibzadeh, Paul Fassel, Ihteaz M. Hossain, Pascal Rohrbeck, Markus Frericks, Moritz Schmidt, The Duong, Motiur Rahman Khan, Tobias Abzieher, Bahram Abdollahi Nejand, Fabian Schackmar, Osbel Almora, Thomas Feeney, Roja Singh, Dirk Fuchs, Uli Lemmer, Jan P. Hofmann, Stefan A. L. Weber, and Ulrich W. Paetzold, *Two birds with one stone: dual grain-boundary and interface passivation enables >22% efficient inverted methylammonium-free perovskite solar cells*, *Energy Environ. Sci.* **14**, 5875 (2021).

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464.) Salih Okur, Chun Li, Zejun Zhang, Sahi Vaidurya Pratap, Mohammed Mohammed Sarheed, Adnan Kanbar, Leonard Franke, Felix Geislhöringer, Lars Heinke, Uli Lemmer, Peter Nick, and Christof Wöll, *Sniff Species: SURMOF-Based Sensor Array Discriminates Aromatic Plants beyond the Genus Level*, *Chemosensors* **9**, 171 (2021).

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463.) Rihan Wu, Qihao Jin, Catherine Storey, Jack Collins, Guillaume Gomard, Uli Lemmer, Leigh Canham, Rainer Kling, Andrey Kaplan, *Gold nanoplasmonic particles in tunable porous silicon 3D scaffolds for ultra-low concentration detection by SERS*, *Nanoscale Horiz.* **6**, 781 (2021).

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462.) Dominik Theobald, Dominik Beutel, Luisa Borgmann, Henning Mescher, Guillaume Gomard, Carsten Rockstuhl, Uli Lemmer, *Simulation of light scattering in large, disordered nanostructures using a periodic T-matrix method*, *J. Quant. Spectrosc. Radiat. Transf.* **277**, 107802 (2021).

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460.) Andres Georg Rösch,* Fabian Giunta, Md. Mofasser Mallick, Leonard Franke, André Gall, Jasmin Aghassi-Hagmann, Jörg Schmalian, and Uli Lemmer, *Improved Electrical, Thermal, and Thermoelectric Properties Through Sample-to-Sample Fluctuations in, Near-Percolation Threshold Composite Materials*, *Adv. Theory Simul.* **4**, 2000284 (2021).

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459.) Yidenekachew J. Donie, Stefan Schliske, Radwanul H. Siddique, Adrian Mertens, Vinayak Narasimhan, Fabian Schackmar, Manuel Pietsch, Ihteaz M. Hossain, Gerardo Hernandez-Sosa, Uli Lemmer, and Guillaume Gomard, *Phase-Separated Nanophotonic Structures by Inkjet Printing*, *ACS Nano* **15**, 7305–7317 (2021).

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455.) Isabel Allegro, Yang Li, Bryce S. Richards, Ulrich W. Paetzold, Uli Lemmer, and Ian A. Howard, *Bimolecular and Auger Recombination in Phase-Stable Perovskite Thin Films from Cryogenic to Room Temperature and Their Effect on the Amplified Spontaneous Emission Threshold*, J. Phys. Chem. Lett. **12**, 2293 (2021).

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452a.) Salih Okur, Peng Qin, Abhinav Chandresh, Chun Li, Zejun Zhang, Ulrich Lemmer, and Lars Heinke, *An Enantioselective e-Nose: An Array of Nanoporous Homochiral MOF Films for Stereospecific Sensing of Chiral Odors*, Angew. Chem. Int. Ed. **60**, 3566 (2021).

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