

# Uli Lemmer

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

454  
papers

15,028  
citations

63  
h-index

101  
g-index

516  
ext. papers

16,777  
ext. citations

6.1  
avg, IF

6.44  
L-index

#	Paper	IF	Citations
454	SiC-based Resonant Converters with ZVS Operated in MHz Range Driving Rapidly Variable Loads: Inductively Coupled Plasmas as a Case of Study. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	1
453	Emergence of Deep Traps in Long-Term Thermally Stressed CHNH <sub>2</sub> PbI Perovskite Revealed by Thermally Stimulated Currents.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 13, 552-558	6.4	1
452	Polarization-Sensitive Photodetectors Based on Directionally Oriented Organic Bulk-Heterojunctions. <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2102397	8.1	2
451	Photonic Curing Enables Ultrarapid Processing of Highly Conducting $\text{ECuSe}$ Printed Thermoelectric Films in Less Than 10 ms.. <i>ACS Omega</i> , <b>2022</b> , 7, 10695-10700	3.9	2
450	Silver-Nanoparticle-Based Metallodielectric Wavelength-Selective Reflectors for Quantum-Dot-Enhanced White-Light-Emitting Diodes. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 87-93	5.6	1
449	Ultra-flexible $\text{ECu}_2\text{Se}$ -based p-type printed thermoelectric films. <i>Applied Materials Today</i> , <b>2021</b> , 26, 101269	6.6	5
448	Thermal Stability and Cation Composition of Hybrid Organic-Inorganic Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 15292-15304	9.5	11
447	Bimolecular and Auger Recombination in Phase-Stable Perovskite Thin Films from Cryogenic to Room Temperature and Their Effect on the Amplified Spontaneous Emission Threshold. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 2293-2298	6.4	5
446	Photodegradation of Triple-Cation Perovskite Solar Cells: The Role of Spectrum and Bias Conditions. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 3083-3092	6.1	6
445	Phase-Separated Nanophotonic Structures by Inkjet Printing. <i>ACS Nano</i> , <b>2021</b> , 15, 7305-7317	16.7	4
444	Improved Electrical, Thermal, and Thermoelectric Properties Through Sample-to-Sample Fluctuations in Near-Percolation Threshold Composite Materials. <i>Advanced Theory and Simulations</i> , <b>2021</b> , 4, 2000284	3.5	4
443	Anisotropic optical behavior of an amorphous organic polymer locally aligned by inkjet-printing. <i>Progress in Organic Coatings</i> , <b>2021</b> , 154, 106184	4.8	
442	Exciton versus free carrier emission: Implications for photoluminescence efficiency and amplified spontaneous emission thresholds in quasi-2D and 3D perovskites. <i>Materials Today</i> , <b>2021</b> , 49, 35-35	21.8	5
441	Sniff Species: SURMOF-Based Sensor Array Discriminates Aromatic Plants beyond the Genus Level. <i>Chemosensors</i> , <b>2021</b> , 9, 171	4	1
440	Perovskite Solar Cells with All-Inkjet-Printed Absorber and Charge Transport Layers. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2000271	6.8	31
439	Ink Formulation for Printed Organic Electronics: Investigating Effects of Aggregation on Structure and Rheology of Functional Inks Based on Conjugated Polymers in Mixed Solvents. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2000335	6.8	9
438	Aerosol-Jet-Printed Donor-Blocking Layer for Organic Photodiodes. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2000811	6.4	5

437	Planarized and Compact Light Scattering Layers Based on Disordered Titania Nanopillars for Light Extraction in Organic Light Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001610	8.1	2
436	Shape-Versatile 3D Thermoelectric Generators by Additive Manufacturing. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 85-91	20.1	17
435	Surface energy patterning for ink-independent process optimization of inkjet-printed electronics. <i>Flexible and Printed Electronics</i> , <b>2021</b> , 6, 015002	3.1	4
434	Fully printed origami thermoelectric generators for energy-harvesting. <i>Npj Flexible Electronics</i> , <b>2021</b> , 5,	10.7	33
433	Identification of Mint Scents Using a QCM Based E-Nose. <i>Chemosensors</i> , <b>2021</b> , 9, 31	4	16
432	Annual energy yield of mono- and bifacial silicon heterojunction solar modules with high-index dielectric nanodisk arrays as anti-reflective and light trapping structures. <i>Optics Express</i> , <b>2021</b> , 29, 34494-34509 <sup>1</sup>	3.3	4509 <sup>1</sup>
431	Simulation of light scattering in large, disordered nanostructures using a periodic T-matrix method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2021</b> , 272, 107802	2.1	7
430	InO:H-Based Hole-Transport-Layer-Free Tin/Lead Perovskite Solar Cells for Efficient Four-Terminal All-Perovskite Tandem Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 46488-46498	9.5	6
429	Realizing High Thermoelectric Performance of Bi-Sb-Te-Based Printed Films through Grain Interface Modification by an In Situ-Grown ECuSe Phase.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 61386-61395	9.5	5
428	Design of Selective Reflectors Utilizing Multiple Scattering by Core/Shell Nanoparticles for Color Conversion Films. <i>ACS Photonics</i> , <b>2020</b> , 7, 1452-1460	6.3	4
427	Upscaling the fabrication routine of bioreplicated rose petal light harvesting layers for photovoltaic modules. <i>Solar Energy</i> , <b>2020</b> , 201, 666-673	6.8	9
426	Flexible Inkjet-Printed Triple Cation Perovskite X-ray Detectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 15774-15784	9.5	46
425	2D/3D Heterostructure for Semitransparent Perovskite Solar Cells with Engineered Bandgap Enables Efficiencies Exceeding 25% in Four-Terminal Tandems with Silicon and CIGS. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909919	15.6	67
424	Toward Stable Perovskite Solar Cell Architectures: Robustness Against Temperature Variations of Real-World Conditions. <i>IEEE Journal of Photovoltaics</i> , <b>2020</b> , 10, 777-784	3.7	4
423	Sensitizing TADF Absorption Using Variable Length Oligo(phenylene ethynylene) Antennae. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 126	5	3
422	Color-Selective Printed Organic Photodiodes for Filterless Multichannel Visible Light Communication. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908258	24	54
421	Highly Efficient and Water-Stable Lead Halide Perovskite Quantum Dots Using Superhydrophobic Aerogel Inorganic Matrix for White Light-Emitting Diodes. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1900941	6.8	32
420	High-Brightness Perovskite Light-Emitting Diodes Using a Printable Silver Microflake Contact. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 11428-11437	9.5	6

419	High-Performance Ag-Se-Based n-Type Printed Thermoelectric Materials for High Power Density Folded Generators. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 19655-19663	9.5	29
418	Nanostructured front electrodes for perovskite/c-Si tandem photovoltaics. <i>Optics Express</i> , <b>2020</b> , 28, 8878-8896	3.3	1
417	Bioreplicated coatings for photovoltaic solar panels nearly eliminate light pollution that harms polarotactic insects. <i>PLoS ONE</i> , <b>2020</b> , 15, e0243296	3.7	2
416	Numerical study on the angular light trapping of the energy yield of organic solar cells with an optical cavity. <i>Optics Express</i> , <b>2020</b> , 28, 37986-37995	3.3	1
415	Horsefly reactions to black surfaces: attractiveness to male and female tabanids versus surface tilt angle and temperature. <i>Parasitology Research</i> , <b>2020</b> , 119, 2399-2409	2.4	2
414	Low-Temperature Electroluminescence Excitation Mapping of Excitons and Trions in Short-Channel Monochiral Carbon Nanotube Devices. <i>ACS Nano</i> , <b>2020</b> , 14, 2709-2717	16.7	11
413	Energy yield of bifacial textured perovskite/silicon tandem photovoltaic modules. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 208, 110367	6.4	29
412	Inkjet-Printed Micrometer-Thick Perovskite Solar Cells with Large Columnar Grains. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903184	21.8	84
411	Vacuum-Assisted Growth of Low-Bandgap Thin Films (FA0.8MA0.2Sn0.5Pb0.5I3) for All-Perovskite Tandem Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902583	21.8	36
410	Spontaneous enhancement of the stable power conversion efficiency in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 670-682	13	27
409	Towards a MOF e-Nose: A SURMOF sensor array for detection and discrimination of plant oil scents and their mixtures. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 306, 127502	8.5	28
408	Triple-cation low-bandgap perovskite thin-films for high-efficiency four-terminal all-perovskite tandem solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 24608-24619	13	14
407	New frontier in printed thermoelectrics: formation of $\delta$ -Ag <sub>2</sub> Se through thermally stimulated dissociative adsorption leads to high ZT. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 16366-16375	13	21
406	Solution-processed and evaporated C60 interlayers for improved charge transport in perovskite photovoltaics. <i>Organic Electronics</i> , <b>2020</b> , 77, 105526	3.5	5
405	High Efficiency Perovskite-Silicon Tandem Solar Cells: Effect of Surface Coating versus Bulk Incorporation of 2D Perovskite. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903553	21.8	73
404	Drying Dynamics of Solution-Processed Perovskite Thin-Film Photovoltaics: In Situ Characterization, Modeling, and Process Control. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901581	21.8	28
403	Investigations of singlet and triplet diffusion in thermally activated delayed-fluorescence emitters: Implications for hyperfluorescence. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	10
402	Pyrolysis-induced shrinking of three-dimensional structures fabricated by two-photon polymerization: experiment and theoretical model. <i>Microsystems and Nanoengineering</i> , <b>2019</b> , 5, 38	7.7	20

401	Efficient All-Evaporated pin-Perovskite Solar Cells: A Promising Approach Toward Industrial Large-Scale Fabrication. <i>IEEE Journal of Photovoltaics</i> , <b>2019</b> , 9, 1249-1257	3.7	28
400	Roll-to-Roll Hot Embossing of 1D and 2D Photonic Nanostructures. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1900110	3.5	8
399	Enhanced Photoluminescence in Quantum Dots/Porous Polymer Hybrid Films Fabricated by Microcellular Foaming. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900223	8.1	25
398	Record Open-Circuit Voltage Wide-Bandgap Perovskite Solar Cells Utilizing 2D/3D Perovskite Heterostructure. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803699	21.8	235
397	Simulation and design of folded perovskite x-ray detectors. <i>Scientific Reports</i> , <b>2019</b> , 9, 5231	4.9	10
396	Comparative Study of Printed Multilayer OLED Fabrication through Slot Die Coating, Gravure and Inkjet Printing, and Their Combination. <i>Colloids and Interfaces</i> , <b>2019</b> , 3, 32	3	19
395	Coated and Printed Perovskites for Photovoltaic Applications. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806702	24	97
394	Novel hybrid organic-inorganic perovskite detector designs based on multilayered device architectures: simulation and design <b>2019</b> ,		2
393	Perovskite Micro Laser arrays using Scalable Lithography: Towards Integrated Perovskite Photonics <b>2019</b> ,		1
392	Microlens arrays with adjustable aspect ratio fabricated by electrowetting and their application to correlated color temperature tunable light-emitting diodes. <i>Optics Express</i> , <b>2019</b> , 27, A25-A38	3.3	6
391	Methodology of energy yield modelling of perovskite-based multi-junction photovoltaics. <i>Optics Express</i> , <b>2019</b> , 27, A507-A523	3.3	36
390	Continuous wave amplified spontaneous emission in phase-stable lead halide perovskites. <i>Nature Communications</i> , <b>2019</b> , 10, 988	17.4	73
389	Organic photodiodes: printing, coating, benchmarks, and applications. <i>Flexible and Printed Electronics</i> , <b>2019</b> , 4, 043001	3.1	28
388	Comment on "Room-Temperature Continuous-Wave Operation of Organometal Halide Perovskite Lasers". <i>ACS Nano</i> , <b>2019</b> , 13, 12257-12258	16.7	7
387	Scalable Processing of Low-Temperature TiO <sub>2</sub> Nanoparticles for High-Efficiency Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 47-58	6.1	24
386	Energy yield of all thin-film perovskite/CIGS tandem solar modules. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2019</b> , 27, 290-298	6.8	24
385	Design and Color Flexibility for Inkjet-Printed Perovskite Photovoltaics. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 764-769	6.1	24
384	Electron-Beam-Evaporated Nickel Oxide Hole Transport Layers for Perovskite-Based Photovoltaics. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1802995	21.8	86

383	Correlation of Device Performance and Fermi Level Shift in the Emitting Layer of Organic Light-Emitting Diodes with Amine-Based Electron Injection Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 8877-8884	9.5	5
382	Light trapping in thin film silicon solar cells via phase separated disordered nanopillars. <i>Nanoscale</i> , <b>2018</b> , 10, 6651-6659	7.7	18
381	Temperature Variation-Induced Performance Decline of Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 16390-16399	9.5	57
380	Inkjet-Printed Triple Cation Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1834-1839	6.1	112
379	Freeform surface invisibility cloaking of interconnection lines in thin-film photovoltaic modules. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 182, 294-301	6.4	6
378	Fully Digitally Printed Image Sensor Based on Organic Photodiodes. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701108	8.1	31
377	Semiconductor:Insulator Blends for Speed Enhancement in Organic Photodiodes. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700345	6.4	16
376	Inkjet-printed internal light extraction layers for organic light emitting diodes. <i>Flexible and Printed Electronics</i> , <b>2018</b> , 3, 015007	3.1	3
375	Substrate-Independent Surface Energy Tuning via Siloxane Treatment for Printed Electronics. <i>Langmuir</i> , <b>2018</b> , 34, 5964-5970	4	12
374	Disordered diffraction gratings tailored by shape-memory based wrinkling and their application to photovoltaics. <i>Optical Materials Express</i> , <b>2018</b> , 8, 184	2.6	20
373	Inkjet-printed perovskite distributed feedback lasers. <i>Optics Express</i> , <b>2018</b> , 26, A144-A152	3.3	50
372	Cloaking of metal grid electrodes on Lambertian emitters by free-form refractive surfaces. <i>Optics Letters</i> , <b>2018</b> , 43, 527-530	3	6
371	Rigorous wave-optical treatment of photon recycling in thermodynamics of photovoltaics: Perovskite thin-film solar cells. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	21
370	Role of packing density and spatial correlations in strongly scattering 3D systems. <i>Optica</i> , <b>2018</b> , 5, 1037	8.6	23
369	Solubility Modulation of Polyfluorene Emitters by Thermally Induced (Retro)-Diels-Alder Cross-Linking of Cyclopentadienyl Substituents. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4157-4167	9.6	5
368	Towards mass fabrication of hot embossed plant surface texture replicas as photovoltaic cover layers <b>2018</b> ,		3
367	Realization of Colors and Patterns for Inkjet-Printed Perovskite Solar Cells <b>2018</b> ,		1
366	Fluorescence Quenching Sensor Arrays for the Discrimination of Nitroaromatic Vapors. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2018</b> , 58-93	0.3	

365	SnO <sub>2</sub> Nanowire-Based Aerosol Jet Printed Electronic Nose as Fire Detector. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 494-500	4	24
364	Digital Aerosol Jet Printing for the Fabrication of Terahertz Metamaterials. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1700236	6.8	18
363	Stable Perovskite Solar Cell Architectures: Robustness against Temperature Variations Under Real World Conditions <b>2018</b> ,		1
362	Energy yield modelling of perovskite/silicon two-terminal tandem PV modules with flat and textured interfaces. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 2754-2761	5.8	45
361	Non-Fullerene-Based Printed Organic Photodiodes with High Responsivity and Megahertz Detection Speed. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 42733-42739	9.5	25
360	Sequence-definition in stiff conjugated oligomers. <i>Scientific Reports</i> , <b>2018</b> , 8, 17483	4.9	12
359	Micro Lasers by Scalable Lithography of Metal-Halide Perovskites. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1800212	6.8	24
358	High Quality 3D Photonics using Nano Imprint Lithography of Fast Sol-gel Materials. <i>Scientific Reports</i> , <b>2018</b> , 8, 7833	4.9	12
357	Fabrication of SERS Substrates by Roll-to-Roll Hot Embossing. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2017</b> , 513-515	0.2	
356	Large-Area Screen-Printed Internal Extraction Layers for Organic Light-Emitting Diodes. <i>ACS Photonics</i> , <b>2017</b> , 4, 928-933	6.3	36
355	Identifying Charge-Transfer States in Polymer:Fullerene Heterojunctions by Their Emission Polarization Anisotropy. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 6357-6364	3.8	7
354	A digitally printed optoelectronic nose for the selective trace detection of nitroaromatic explosive vapours using fluorescence quenching. <i>Flexible and Printed Electronics</i> , <b>2017</b> , 2, 024001	3.1	21
353	CELES: CUDA-accelerated simulation of electromagnetic scattering by large ensembles of spheres. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2017</b> , 199, 103-110	2.1	38
352	Assessing the influence of structural disorder on the plant epidermal cellsOptical properties: a numerical analysis. <i>Bioinspiration and Biomimetics</i> , <b>2017</b> , 12, 036011	2.6	12
351	Discrimination of trace nitroaromatics using linear discriminant analysis on aerosol jet printed fluorescent sensor arrays <b>2017</b> ,		3
350	Accurate optical simulation of nano-particle based internal scattering layers for light outcoupling from organic light emitting diodes. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 025605	1.7	4
349	Slot Die Coated and Flexo Printed Highly Efficient SMOLEDs. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600230	6.8	18
348	Degradation Mechanisms in Organic Light-Emitting Diodes with Polyethylenimine as a Solution-Processed Electron Injection Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2776-2785	9.5	33

347	In situ Studies of Morphology Formation in Solution-Processed PolymerBullerene Blends. <i>Advances in Polymer Science</i> , <b>2017</b> , 1-24	1.3	1
346	Reliability of Aerosol Jet Printed Fluorescence Quenching Sensor Arrays for the Identification and Quantification of Explosive Vapors. <i>ACS Omega</i> , <b>2017</b> , 2, 6500-6505	3.9	7
345	Texture of the Viola Flower for Light Harvesting in Photovoltaics. <i>ACS Photonics</i> , <b>2017</b> , 4, 2687-2692	6.3	32
344	Thin Films of Copper (I) Iodide Doped with Iodine and Thiocyanate. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2017</b> , 214, 1700520	1.6	8
343	Bioinspired phase-separated disordered nanostructures for thin photovoltaic absorbers. <i>Science Advances</i> , <b>2017</b> , 3, e1700232	14.3	74
342	Additive-Assisted Crystallization Dynamics in Two-Step Fabrication of Perovskite Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2017</b> , 214, 1700509	1.6	16
341	Transient response of a microfibrinous web array for the discrimination of nitroaromatic explosive vapors <b>2017</b> ,		1
340	Extending the applicability of the T-matrix method to light scattering by flat particles on a substrate via truncation of sommerfeld integrals. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2017</b> , 202, 279-285	2.1	15
339	Plane-wave coupling formalism for T-matrix simulations of light scattering by nonspherical particles. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	17
338	Field-induced exciton dissociation in PTB7-based organic solar cells. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	32
337	Controlled Molecular Orientation of Inkjet Printed Semiconducting Polymer Fibers by Crystallization Templating. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 10150-10158	9.6	10
336	Triple cation mixed-halide perovskites for tunable lasers. <i>Optical Materials Express</i> , <b>2017</b> , 7, 4082	2.6	23
335	3D whispering-gallery-mode microlasers by direct laser writing and subsequent soft nanoimprint lithography. <i>Applied Optics</i> , <b>2017</b> , 56, 3703-3708	0.2	10
334	Lab-on-Chip, Surface-Enhanced Raman Analysis by Aerosol Jet Printing and Roll-to-Roll Hot Embossing. <i>Sensors</i> , <b>2017</b> , 17,	3.8	12
333	Photon management in solution-processed organic light-emitting diodes: a review of light outcoupling micro- and nanostructures. <i>Journal of Photonics for Energy</i> , <b>2016</b> , 6, 030901	1.2	24
332	Development and characterization of adjustable refractive index scattering epoxy acrylate polymer layers <b>2016</b> ,		1
331	One-step additive crosslinking of conjugated polyelectrolyte interlayers: improved lifetime and performance of solution-processed OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 11150-11156	7.1	19
330	Multipass inkjet printed planar methylammonium lead iodide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 19207-19213	13	87



329	Optoelectrical improvement of ultra-thin Cu(In,Ga)Se <sub>2</sub> solar cells through microstructured MgF <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> back contact passivation layer. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2016</b> , 10, 376-380 <sup>2.5</sup>	24
328	Cloaking Contacts on Large-Area Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 740-745	8.1 9
327	Tuning the Microcavity of Organic Light Emitting Diodes by Solution Processable Polymer-Nanoparticle Composite Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 2666-72	9.5 6
326	Investigation of formamidinium and guanidinium lead tri-iodide powders as precursors for solar cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2016</b> , 204, 27-33 <sup>3.1</sup>	40
325	Understanding the effect of solvent vapor annealing on solution-processed <b>AD</b> oligothiophene bulk-heterojunction solar cells: the role of alkyl side chains. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2571-2580	13 42
324	Adjustable passivation of SiO <sub>2</sub> trap states in OFETs by an ultrathin CVD deposited polymer coating. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6 6
323	Position Sensing by Transient Photocurrents of Organic Photodiodes. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 617-620	2.2 2
322	Light scattering by oblate particles near planar interfaces: on the validity of the T-matrix approach. <i>Optics Express</i> , <b>2016</b> , 24, 25154-25168	3.3 16
321	Flower Power: Exploiting PlantsPEpidermal Structures for Enhanced Light Harvesting in Thin-Film Solar Cells. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 1487-1493	8.1 42
320	The Swiss-Army-Knife Self-Assembled Monolayer: Improving Electron Injection, Stability, and Wettability of Metal Electrodes with a One-Minute Process. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3172-3178	15.6 22
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9	Subpicosecond dynamics of hot carrier relaxation in InP and GaAs <b>1990</b> ,		4
8	Hot carrier relaxation in InP and GaAs on a subpicosecond time scale. <i>Solid-State Electronics</i> , <b>1989</b> , 32, 1591-1595	1.7	33
7	Nanoporous Polymer Reflectors for Organic Solar Cells. <i>Energy Technology</i> , 2100676	3.5	0
6	A Self-Assembly Method for Tunable and Scalable Nano-Stamps: A Versatile Approach for Imprinting Nanostructures. <i>Advanced Materials Technologies</i> , 2101008	6.8	0

5	High Dynamic Range Smart Window Display by Surface Hydrophilization and Inkjet Printing. <i>Advanced Materials Technologies</i> ,2101026	6.8	0
4	Optimization of SnO <sub>2</sub> electron transport layer for efficient planar perovskite solar cells with very low hysteresis. <i>Materials Advances</i> ,	3.3	2
3	Two birds with one stone: dual grain-boundary and interface passivation enables >22% efficient inverted methylammonium-free perovskite solar cells. <i>Energy and Environmental Science</i> ,	35.4	56
2	Lasing from Laminated Quasi-2D/3D Perovskite Planar Heterostructures. <i>Advanced Functional Materials</i> ,2200772	15.6	2
1	Fabrication of Bragg Mirrors by Multilayer Inkjet Printing. <i>Advanced Materials</i> ,2201348	24	2