

Perovskite Semiconductors: From Fundamental Properties to Devices (PerFunPro)

Konstanz, Germany, 2025 September 8th - 10th

Conference organizers: Lukas Schmidt-Mende, Vladimir Dyakonov and Selina Olthof

Conference Program

September 8th - Day 1 (Monday) 1	
08:15 - 09:00	Registration #PerFunPro
09:00 - 09:15	Opening #PerFunPro
	Session 1.1 #PerFunPro Chair: Vladimir Dyakonov
09:15 - 09:45 #PerFunPro-I1	<u>Hobeom Kim</u> (<i>Gwangju Institute of Science and Technology (GIST)</i>) Defect Engineering in Perovskites for Optoelectronic Devices: Use of Perovskite Polytypes
09:45 - 10:00 #PerFunPro-O1	<u>Guus Aalbers</u> (<i>Molecular Materials and Nanosystems, Institute for Complex Molecular Systems, Eindhoven University of Technology, The Netherlands</i>), Willemijn Remmerswaal, Martijn Wienk, René Janssen Visualizing Shallow Trap Distributions in Metal-Halide Perovskites via Low-Temperature Transient Photoluminescence
10:00 - 10:15 #PerFunPro-O2	<u>Leander Schaberg</u> (<i>Institute of Technology for Nanostructures (NST), University of Duisburg-Essen, 47057 Duisburg, Germany</i>), Yueming Wang, Thomas Kirchartz, Roland Schmechel, Doru Lupascu, Niels Benson Evaluation of Triple-Cation Perovskite Defects by Thermally Stimulated Currents
10:15 - 10:45	Coffee Break
	Session 1.2 #PerFunPro Chair: Bruno Ehrler
10:45 - 11:15 #PerFunPro-I1	<u>Nakita K Noe</u> (<i>Clarendon Laboratory, Department of Physics, University of Oxford, Parks Road, Oxford, OX1 3PU, United Kingdom</i>) Kinetics vs. Thermodynamics: Pathways to Improving the Stability of Halide Perovskites
11:15 - 11:30 #PerFunPro-O1	<u>Zafar Iqbal</u> (<i>Solar Energy Division, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH (HZB), Hahn-Meitner-Platz 1, 14109 Berlin, Germany.</i>), Antonio Abate Understanding Surface Passivation Strategy to Suppress Tin Oxidation in Tin Halide Perovskite Solar Cells
11:30 - 11:45 #PerFunPro-O2	<u>Sara Covella</u> (<i>Dipartimento di Chimica, Università degli Studi di Bari "Aldo Moro", Via Orabona 4, 70126 Bari, Italy</i>), Francesco Fracassi, Silvia Colella, Antonio Abate, Andrea Listorti Plasma-Assisted Surface Engineering of Tin-Based Perovskites for Enhanced Photovoltaic Performance
11:45 - 12:00 #PerFunPro-O3	<u>Matas Steponaitis</u> (<i>State research institute Center for Physical Sciences and Technology</i>) Investigation of interactions between carbazole based quaternary ammonium salts and lead based perovskite
12:00 - 13:45	Lunch Break
	Session 1.3 #PerFunPro Chair: Lukas Wagner
13:45 - 14:15 #PerFunPro-I1	<u>Bruno Ehrler</u> (<i>NWO-Institute AMOLF, Science Park 104, 1098 XG Amsterdam, The Netherlands</i>) A simple question, many answers: how many ions migrate through perovskite solar cells?
14:15 - 14:30 #PerFunPro-O1	<u>Ivan Zaluzhnyy</u> (<i>Institute of Applied Physics, University of Tübingen, 72076 Tübingen, Germany</i>), Linus Pithan, Rustam Rysov, Frederik Unger, Ekaterina Kneschaurek, Jakub Hagara, Paul Zimmermann, Sebastian Schwartzkopff, Lena Merten, Dmitry Lapkin, Alexander Hinderhofer, Fabian Westermeyer, Michael Sprung, Yana Vaynzof, Fabian Paulus, Frank Schreiber Dynamics and kinetics of light-induced phase segregation in mixed lead-halide perovskites
14:30 - 14:45 #PerFunPro-O2	<u>Fatemeh Haddadi Barzoki</u> (<i>Inorganic Chemistry and Bavarian Center for Battery Technology (BayBatt), University of Bayreuth, Universitätsstraße 30, 95447 Bayreuth, Germany.</i>), Markus Griesbach, Tobias Siegert, Anna Köhler, Helen Grüninger EXPLORING PHOTOINDUCED PHASE SEGREGATION IN MIXED HALIDE PEROVSKITE POWDERS
14:45 - 15:00 #PerFunPro-O3	<u>Tobias Schulz</u> (<i>Martin Luther University Halle-Wittenberg</i>), Matthias Maiberg, Roland Scheer, Paul Pistor Quantitative Analysis of FAI-Diffusion in Sequentially Evaporated FAPbI3 Perovskite Thin Film
15:00 - 15:15 #PerFunPro-O4	<u>Dilara Öz</u> (<i>University of Wuppertal</i>) Investigation of Substrate Dependency in Thermal Evaporation of mix-halide FAPbI1Br2 Perovskite Thin Films
15:15 - 15:45 #PerFunPro-I2	Christopher Janas, Lea Obermüller, Gülüşüm Babayeva, Ali Reza Nazari Pour, Max Gorenflo, Malwine Lühder, Aaron Schüller-Ruhl, Lukas Wagner, <u>Jan Christoph Goldschmidt</u> (<i>Philipps-Universität Marburg, Department of Physics, Group Physics of Solar Energy Conversion, Marburg, Germany</i>) Absolute calibrated, electrical-bias dependent photoluminescence measurement with spectral, spatial, and temporal resolution
16:15 - 16:45 #PerFunPro-I3	<u>Tomasz Marszalek</u> (<i>Max Planck Institute for Polymer Research, 55128 Mainz, Germany</i>) 2 - Dimensional Hybrid Perovskite as a Promising Semiconductor for Large Area Electronics
16:45 - 17:00 #PerFunPro-O5	<u>Maryam Choghaei</u> (<i>Wuppertal Center for Smart Materials & Systems (CM@S), University of Wuppertal, 42119 Wuppertal, Germany</i>), Selina Olthof, Maximilian Schiffer, Viren Tyagi, Shuxia Tao, Thomas Riedl Investigation of alkylammonium-based 2D Ruddlesden-Popper perovskites: the impact of varying chain length
17:30 - 20:00	Poster Session #PerFunPro

September 9th - Day 2 (Tuesday) 2

Session 2.1 #PerFunPro

Chair: Letian Dou

09:00 - 09:30 **Barry P. Rand** (*Princeton University*)

#PerFunPro-I1 Can Redox Processes Explain What's Really Going on Inside a Halide Perovskite Device?

09:30 - 10:00 **Enrique Hernández** (*Escuela Superior de Ciencias Experimentales y Tecnología (ESCET), Universidad Rey Juan Carlos*), Juan Bisquert

#PerFunPro-I2 Accelerated assessment of device efficiency and degradation pathways in perovskite photovoltaics

10:00 - 10:15 **Lukas Frommel** (*IMD-3, Forschungszentrum Jülich, 52425 Jülich, Germany*), Sandheep Ravishankar, Thomas Kirchartz

#PerFunPro-O1 Resolving Defect Densities in Perovskite Solar Cells via Capacitance Voltage Measurements

10:15 - 10:45 **Coffee Break**

Session 2.2 #PerFunPro

Chair: Barry Rand

10:45 - 11:15 **Timo Maschwitz**, Lena Merten, Feray Ünlü, Martin Majewski, Fatemeh Barzoki, Zijin Wu, Seren Dilara Öz, Cedric Kreusel, Manuel Theisen, Pang Wang, Maximilian Schiffer, Gianluca Boccarella, Henrik Weidner, Sarah Schultheis, Gregor Marioth, Zavkiddin Julliev, Ekaterina Kneschaurek, Valentin Munteanu, Ivan Zaluzhnyy, Florian Bertram, Anael Jaffres, Junjie He, Nigmat Ashurov, Martin Stalterfoht, Christian Wolff, Eva Unger, Shuxia Tao, Selina Olthof, Helen Grüninger, Oliver Ronsin, Jens Harting, Andreas Kotthaus, Stefan Kirsch, Sanjay Mathur, Alexander Hinderhofer, Frank Schreiber, **Kai Oliver Brinkmann** (*Wuppertal Center for Smart Materials & Systems (CM@S), University of Wuppertal, 42119 Wuppertal, Germany*), Thomas Riedl

Understanding how Crystallization Additives Govern Halide Perovskite Grain Growth

11:15 - 11:30 **Maximilian Spies** (*Soft Matter Optoelectronics, University of Bayreuth, Universitätsstraße 30, 95447 Bayreuth, Germany.*), Simon Biberger, Fabian Eller, Eva M. Herzig, Anna Köhler

#PerFunPro-O1 Solvated PbI₂ Clusters preceding the Crystallization of Lead Halide Perovskites - a UV/VIS In Situ Study

11:30 - 11:45 **Martin Majewski** (*Forschungszentrum Juelich GmbH, Helmholtz Institute Erlangen- Nuernberg (IET-2), Dynamics of Complex Fluids and Interfaces, Cauerstraße 1, 91058 Erlangen, Germany*), Shudi Qiu, Olivier J. Ronsin, Tian Du, Christoph J. Brabec, Hans-J. Egelhaaf, Jens Harting

#PerFunPro-O2 Simulation of the impact of processing conditions for solution-processed thick perovskite layers

11:45 - 12:00 **Maria Azhar** (*Department of Physics, University of Konstanz, Konstanz 78467, Germany*)

#PerFunPro-O3 Impact of quenching techniques on wrinkling in wide-bandgap perovskite films

12:00 - 13:45 **Lunch Break**

Session 2.3 #PerFunPro

Chair: Zafar Iqbal

13:45 - 14:15 **Miguel A. Torre Cachafeiro**, **Wolfgang Tress** (*Institute of Computational Physics, Zurich University of Applied Sciences (ZHAW), 8401 Winterthur (Switzerland)*)

#PerFunPro-I1 Insights into ion-modulated charge collection in perovskite solar cells using spectrally resolved measurements

14:15 - 14:45 **Sandheep Ravishankar** (*IMD-3, Forschungszentrum Jülich, 52425 Jülich, Germany*)

#PerFunPro-I2 Modelling Charge Extraction and Recombination Losses in Perovskite Solar Cells

14:45 - 15:00 **Frederik Vonhoff** (*Physics Department, TUM School of Natural Sciences, Technical University of Munich, Germany*), Maximilian J. Schilcher, David R. Reichman, David A. Egger

#PerFunPro-O1 Analysis of Real-Space Transport Channels for Electrons and Holes in Halide Perovskites

15:00 - 15:15 **Constantin Bach** (*Institut für Physik, Technische Universität Chemnitz, 09126 Chemnitz, Germany*), Yitian Du, Yana Vaynzof, Carsten Deibel

#PerFunPro-O2 All Optical Frequency Domain Lifetime Determination for Halide Perovskites under Operating Conditions

15:15 - 15:45 **Doru Lupascu** (*Institute for Material Science, University of Duisburg-Essen, 45141 Essen, Germany*), Niels Benson, Young Un Jin, Irina Anusca, Witchaya Arpavate, Shaista Tahir, Lars Leander Schaberg

#PerFunPro-I3 Dielectric Effects in Halide Perovskites

16:15 - 16:45 **Nataliia Kopteva** (*Experimental Physics 2, TU Dortmund University, 44227 Dortmund, Germany*), Dmitri Yakovlev, Eyüp Yalcin, Ina Kalitukha, Ilya Akimov, Mikhail Nestoklon, Bekir Turedi, Oleh Hordiihuk, Dmitry Dirin, Maksym Kovalenko, Manfred Bayer

#PerFunPro-I4 Spin dynamics in lead-halide perovskites

16:45 - 17:00 **Dmitri R. Yakovlev** (*Experimental Physics 2, TU Dortmund University, Germany*), Erik Kirstein, Evgeny A. Zhukov, Nataliia E. Kopteva, Sergey R. Meliakov, Bekir Turedi, Maksym V. Kovalenko, Manfred Bayer

#PerFunPro-O3 Spin accumulation effects in coherent spin dynamics of perovskite crystals and nanocrystals

17:00 - 17:15 **M. Alex Hollberg** (*Department of Physics, Technische Universität Dortmund, Germany*), Artur V. Trifonov, Mikhail O. Nestoklon, Natalia E. Kopteva, Ina V. Kalitukha, Ihor Cherniukh, Yesim Sahin, Dmitry N. Dirin, Maryna I. Bodnarchuk, Simon C. Boehme, Gabriele Raino, Maksym V. Kovalenko, Dmitri R. Yakovlev, Manfred Bayer, Ilya A. Akimov

#PerFunPro-O4 Size Dependence of Coherent Exciton Dynamics in CsPbBr₃ Nanocrystals

19:00 - 22:00 **Social Dinner #PerFunPro**

September 10th - Day 3 (Wednesday) 3

Session 3.1 #PerFunPro

Chair: Peter, Chao-Yu Chen

09:00 - 09:30 #PerFunPro-I1	<u>Letian Dou</u> (<i>Department of Chemistry, Emory University, 1515 Dickey Drive NE, Atlanta, Georgia 30322, USA</i>) Light Emission and Lasing in Organic Semiconductor-incorporated Perovskite (OSiP)
09:30 - 09:45 #PerFunPro-O1	<u>Rachna Singh</u> (<i>Indian Institute of Technology Delhi</i>), Ajeet Singh, Gauri Sharma, Nikhil Singh, Pralay K. Santra, Dibyajyoti Ghosh, Sameer Sapra Enhanced Emission in Core@Shell Heterostructure of 3D Halide Double Perovskites
09:45 - 10:00 #PerFunPro-O2	<u>Theresa Hettiger</u> (<i>Institute for Physical and Theoretical Chemistry, Universität Tübingen, 72076 Tübingen, Germany</i>), Jonas Hiller, Roshini Jayabalan, Arup Sarkar, Martin Eberle, Richard Hodak, Denis Andrienko, Wolfgang Brütting, Marcus Scheele Influence of Ligands on p-Doping of CsPbBr ₃ Nanocrystals
10:00 - 10:15 #PerFunPro-O3	<u>Roshini Jayabalan</u> (<i>Institute of Physics, Universität Augsburg, 86135 Augsburg, Germany</i>), Girish Kakkepalaya Hanumantharaju, Theresa Hettiger, Arup Sarkar, Fengshuo Zu, Aladin Ullrich, Norbert Koch, Denis Andrienko, Marcus Scheele, Wolfgang Brütting Optimizing carrier balance in CsPbBr ₃ nanocrystal LEDs: The role of alkyl ligands and polar electron transport layers

10:15 - 10:45 **Coffee Break**

Session 3.2 #PerFunPro

Chair: Lukas Schmidt-Mende

10:45 - 11:15 #PerFunPro-I1	<u>Peter Chao-Yu Chen</u> (<i>Program on Key Materials, Academy of Innovative Semiconductor and Sustainable Manufacturing, National Cheng Kung University, No.1, University Rd., Tainan 701, Taiwan (R.O.C.)</i>) Cesium Copper-Based Halide Scintillators for high performance X-ray detection
11:15 - 11:30 #PerFunPro-O1	<u>Bekir Turedi</u> (<i>ETH Zurich, Laboratory of Inorganic Chemistry, Department of Chemistry & Applied Biosciences</i>), Gebhard J. Matt, Kostiantyn Sakhatskyi, Vitalii Bartosh, Sergii Yakunin, Maksym Kovalenko Millimeter-Thick Perovskite Single Crystals Achieve Complete Charge Extraction for Zero-Bias X-Ray Detection
11:30 - 11:45 #PerFunPro-O2	<u>Tzu-Chien Wei</u> (<i>Research Center for Critical Issues, Academia Sinica, Taipei, Taiwan</i>) Development of production technologies for perovskite solar cells
11:45 - 12:00 #PerFunPro-O3	<u>Christoph Messmer</u> (<i>University of Freiburg, Department of Sustainable Systems Engineering (INATECH)</i>), Maryamsadat Heydarian, Georgios Loukeris, Luis Restat, Oussama Er-Raji, Juliane Borchert, Jonas Schön, Stefan Glunz Strategies for Enhancing Performance through Contact and Interface Engineering of Perovskite-Based Tandem Solar Cells
12:00 - 12:30 #PerFunPro-I2	<u>Erkan Aydin</u> (<i>Ludwig-Maximilians-Universität München (LMU)</i>) Interfaces at Work: Enhancing Perovskite Solar Cells for Both Terrestrial and Space Environments

12:30 - 12:45 **Closing #PerFunPro**

Poster Contribution

007	<u>Selina Olthof</u> (<i>University Wuppertal</i>) Reflection Electron Energy Loss Spectroscopy of Halide Perovskites
008	<u>Tobias Siegert</u> (<i>Soft Matter Optoelectronics, University of Bayreuth, Universitätsstraße 30, 95447 Bayreuth, Germany.</i>), Markus Griesbach, Frank-Julian Kahle, Anna Köhler, Helen Grüninger Modelling Thermal Halide Exchange of Perovskite Powders with and without BMIMBF ₄ from an Interdiffusion Perspective
016	<u>Shunfa Gong</u> (<i>Nantes Université, CNRS, Institut des Matériaux de Nantes Jean Rouxel, IMN, F-44000 Nantes, France</i>), Romain Gautier, Christopher HASSAM Broad-band emission from low-dimensional hybrid alkali halide perovskite
018	<u>Maria Catalina Herrán</u> (<i>Faculty of Engineering, Pontificia Universidad Javeriana, Bogotá D.C., Colombia.</i>), Fredy Rojas Tarazona, Augusto Mejía, Francisco Quintero Impact of post-deposition annealing on the crystallization of MAPb(I _{3-x} Cl _x) thin films prepared by Spin Coating
026	<u>Jingbo Wang</u> (<i>The University of Hongkong</i>) Multifunctional Additive Enables Synergistic Enhancement of Stability and Efficiency in Perovskite Solar Cells
028	<u>Volodymyr Vasylykovskyi</u> (<i>Experimental Physics 6, Julius Maximilian University of Würzburg, Am Hubland, 97074 Würzburg, Germany</i>), Anastasiia Kultaeva, Olga Trukhina, Daniele Ludwig, Carlos Canhassi, Patrick Dörfinger, Mykola Slipchenko, Yakov Kopelevich, Vladimir Dyakonov Structural and Magnetic Properties of Fe ³⁺ -Doped Cs ₂ AgBiX ₆ (X=Br, Cl) Lead-Free Double Perovskites
037	<u>Young Un Jin</u> (<i>Institute for Materials Science and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, 45141 Essen, Germany</i>), Bernd Marler, Andrei N. Salak, Mariana Escobar-Castillo, Witchaya Arpavate, Shaista Tahir, Lars Leander Schaberg, Niels Benson, Doru C. Lupascu Low-Dimensional Azetidinium Pb-free Perovskite Derivatives
039	Dmytro Horiachyi, Mikhail Nestoklon, <u>Ilya Akimov</u> (<i>Experimental Physics 2, TU Dortmund University, 44227 Dortmund, Germany</i>), Artur Trifonov, Nikita Siverin, Natalia Kopteva, Alexander Kosarev, Dmitri Yakovlev, Vitaliy Gusev, Melina Fries, Olga Trukhina, Vladimir Dyakonov, Manfred Bayer Optically driven coherent shear phonons in lead-free double perovskites
042	<u>Joey Pu-Chou Lin</u> (<i>Martin-Luther-University Halle-Wittenberg, Institute of Physics, Germany</i>), Roland Scheer, Paul Pistor Growth Mechanisms of All-Vacuum Deposited (FA/Cs)SnI ₃ Perovskites via Sequential Evaporation
044	<u>Hadi Mohammadzadeh</u> (<i>Freiburg Materials Research Center FMF, University of Freiburg, Stefan-Meier-Str. 21, 79104 Freiburg, Germany</i>), Clemens Baretzky, Tino Lukas, Mohammad Kamrul Hasan Jony, Marjan Akbari Famileh, Georgios Loukeris, Alexander Mensinger, Lukas Wagner, Markus Kohlstädt, Uli Würfel Laminable Carbon Electrodes: A Versatile Approach for Highly-Efficient Metal-Free Perovskite Solar Cells
047	<u>Lukas Wagner</u> (<i>Physics of Solar Energy Conversion Group, Department of Physics, Marburg University, Marburg, Germany</i>), Clemens Baretzky, Max Gorenflo, Ali Reza Nazari Pour, Jan Christoph Goldschmidt A scalable, low-cost maximum power point ageing system for high throughput stability assessments of perovskite solar cells
053	<u>Yekitwork Abebe Temitmie</u> (<i>Department of Physics, University of Bahir Dar, 6000 Bahir Dar, Ethiopia.</i>), Muhammad Irfan Haider, Daniele T. Cuzzupè, Lucia V. Mercaldo, Stefan Kraner, Paola Delli Veneri, Amare Benor, Azhar Fakhruddin, Lukas Schmidt-Mende Overcoming the Open-Circuit Voltage Losses in Narrow Bandgap Perovskites for All-Perovskite Tandem Solar Cells
054	<u>Guus Aalbers</u> (<i>Molecular Materials and Nanosystems, Eindhoven University of Technology, The Netherlands</i>), Gabrielle Mathieu, Martijn Wienk, René Janssen A New Look at Charge Extraction: Voltage-Dependent TRPL on Perovskite Solar Cells
055	<u>Roshini Jayabalan</u> (<i>Institute of Physics, University of Augsburg, 86159 Augsburg, Germany</i>), Lea Kolb, Wolfgang Brütting Optical studies on the emission orientation of CsPbBr ₃ nanocrystal films
056	<u>Ole Dressler</u> (<i>Department of Chemistry and Applied Biosciences, Laboratory of Inorganic Chemistry, ETH Zürich, Switzerland</i>), Benjamin Aymoz, Sebastian Sabisch, Dmitry Dirin, Maksym Kovalenko Controlled Synthesis and Stabilization of Tin Halide Perovskite Nanocrystals
057	<u>Emilio Gutierrez-Partida</u> (<i>PicoQuant GmbH</i>), Eugeny Ermilov, Volker Buschmann, Christian Oelsner, Felix Koberling, Jürgen Breitlow, Rainer Erdmann Mapping Carrier Dynamics: Combining Time-Resolved Photoluminescence and Spatial Imaging for Advanced Semiconductor Research
058	<u>Sven Opitz</u> (<i>University of Wuppertal</i>), Henrik Weidner, Sercan Özen, Gianluca Boccarella, Felix Lang, Kai Oliver Brinkmann, Thomas Riedl Atomic Layer Deposited Porous Al ₂ O ₃ as a Dual-Functional Hole Contact in Pb-Sn Perovskite Solar Cells
059	<u>Jian Huang</u> (<i>LMU Munich</i>) Enhanced Charge Extraction in Textured Perovskite-Silicon Tandem Solar Cells via Molecular Contact Functionalization
060	<u>Ferdous Jahan Antee</u> (<i>University of Dhaka</i>), Dr. Kazi Haniun Maria, Iffat Nur Esha, M.N.I Khan Interpretation of Tailored Multiferroic Properties of (1-x) Ba _{0.6} Sr _{0.4} Cr _{0.6} Ti _{0.4} O ₃ + (x) CoFe _{1.8} La _{0.2} O ₄ Composites via Double Sintering Ceramic Technique
061	<u>Maximilian Schiffer</u> (<i>University of Wuppertal, Germany</i>), Gianluca Boccarella, Timo Maschwitz, Maryam Chonghaei, Selina Olthof, Kai Oliver Brinkmann, Thomas Riedl Enhancing Stability: Strategies for Mitigating Halide Segregation in 2D Perovskites
062	<u>Witchaya Arpavate</u> (<i>Institute for Materials Science and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, 45141 Essen, Germany</i>), Young Un Jin, Mariana Escobar-Castillo, Niels Benson, Doru C. Lupascu Synthesis of Aziridinium Lead Iodide Hybrid Perovskite Polycrystalline Powder and Thin Film
063	<u>Emilia Schütz</u> (<i>Department of Physics, University of Konstanz, 78464 Konstanz, Germany.</i>), Martin Majewski, Olivier J.J. Ronsin, Jens Harting, Lukas Schmidt-Mende Controlled Nucleation in Methylamine-Treated Perovskite Films by Artificial Seeding and Phase-Field Simulations
064	<u>Shaista Tahir</u> (<i>Institute for Materials Science and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, 45141 Essen, Germany</i>), Young Un Jin, Niels Benson, Doru C. Lupascu Formamidinium based Quasi 2D Ruddlesden-Popper-type Halide Perovskites Single Crystals
065	<u>Orestis Karalis</u> (<i>Solar Energy Division, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH (HZB), Hahn-Meitner-Platz 1, 14109 Berlin, Germany.</i>), Hannes Hempel, Vincent Le Corre, Igal Levine, Thomas Unold Insights from Drift-Diffusion Simulations: Differential Lifetime Analysis for Photoluminescence and Surface-Photovoltage Transients
066	<u>Nikky Chandrakar</u> (<i>Indian Institute of Technology, Bhilai</i>), Mukesh Kumar, Lukas Schmidt Mende, Dhruv Pratap Singh All Inorganic CsPbBr ₃ Semi-transparent Perovskite Solar Cells via Vacuum Evaporation: Role of TiO ₂ /AZO Bilayer ETLs

067	<u>Paria Forozi Sowmeeh</u> (<i>Institute of Physics and Astronomy University of Potsdam</i>), Shengnan Zuo, Chiara Frasca, Biruk Alebachew Seid, Sercan Ozen, Wentao Liu, Dieter Neher, Mahmoud H Aldamas, Martin Stolterfoht, Antonio Abate, Artem Musienko, Felix Lang Minimizing Ionic losses in DMSO-free Tin-based Perovskite Solar Cells
068	<u>Lang Felix</u> (<i>Soft Matter Physics and Optoelectronics, Institute of Physics and Astronomy, University of Potsdam, Karl-Liebknecht-Str. 24-25, 14476 Potsdam-Golm, Germany.</i>) Perovskite-based Single and Multijunction PV for Space: From Earth to the Moon.
069	<u>Timo Maschwitz</u> (<i>University of Wuppertal</i>), Sarah Schultheis, Gregor Marioth, Kai O. Brinkmann, Thomas Riedl Probing Perovskite Precursor Inks by Electrical Impedance Spectroscopy
070	<u>Isabella Taupitz</u> (<i>Helmholtz-Zentrum für Materialien und Energie GmbH (HZB), 12489 Berlin, Germany</i>), Dorothee Menzel, Sebastian Berwig, Maxim Simmonds, Yeonghun Yun, Huagui Lai, Eva Unger, Lars Korte, Philipp Tockhorn, Steve Albrecht Understanding the influence of the Pb(SCN)2 additive in Sn-Pb narrow-bandgap perovskite solar cells employing self-assembling hole-transport layers
071	<u>Osama Alsheikha</u> (<i>Inorganic Chemistry III, University of Bayreuth, Universitätsstraße 30, 95447 Bayreuth, Germany</i>), Fatemeh Haddadi Barzoki, Markus Griesbach, Christopher Greve, Anna Köhler, Eva M. Herzig, Helen Grüninger A Robust and General Method for Nanoconfinement of Hybrid Perovskites in Mesoporous Matrices
072	<u>Oliver Treske</u> (<i>Institut für Anorganische Chemie, Leibniz Universität Hannover</i>), Justin Koch, Andreas Poltarak, Sebastian Polarz Anisotropic Layered Hybrid Perovskite Particles with Increased Stability Synthesized via Gel Precursor
073	<u>Spyros Orfanoudakis</u> (<i>Institute of Nanoscience and Nanotechnology, NCSR Demokritos, 15341, Athens, Greece</i>), Filippas Harlaftis, Athanasios G. Kontos, Thomas Stergiopoulos Thiol-Ammonium Passivation Unlocks Air-Stable FAPbI ₃ Light-Emitting Diodes
074	<u>Roupen Vartian</u> (<i>National Center for Scientific Research "Demokritos"</i>), Spyros Orfanoudakis, Thomas Stergiopoulos Exploring the Thermoelectric Properties of Sn ²⁺ -Based Perovskites: A Study on FASnI ₃ Thin Films
075	<u>Jonas A. Oldenstaedt</u> (<i>Technical University of Munich, TUM School of Natural Sciences</i>), Xiangzhou Zhu, Frederico P. Delgado, David A. Egger Finite-Temperature Structural Properties of Metal Halide Perovskites from Machine Learning Driven Molecular Dynamics
076	<u>Martina Pesci</u> (<i>Institute for Photovoltaics, University of Stuttgart, Stuttgart, Germany</i>), Goutam Paul, Stefan Weber Cross Section of Perovskite Solar Cells for Potential Mapping
077	<u>Timo Eberle</u> (<i>Institute for Photovoltaics, University of Stuttgart, Stuttgart, Germany</i>), Bekele Teklemariam Investigation of "Dead Grains" in Perovskite Solar Cells Using Conductive Atomic Force Microscopy
078	<u>André Felipe Vale Fonseca</u> (<i>Laboratory of Nanotechnology and Solar Energy, Institute of Chemistry, University of Campinas - UNICAMP</i>), Iván Mora-Seró, Ana Flávia Nogueira Boosting Charge Extraction in PSCs via CdS Quantum Dot Interface