Symposium Fundamentals of Hybrid and Perovskite Photovoltaics (SYHP)

jointly organized by the Chemical and Polymer Physics Division (CPP), the Semiconducting Physics Division (HL), the Thin Films Division (DF), and the Dielectric Solids Division (DS)

Lukas Schmidt-Mende					
University of Konstanz					
Universitaetsstr. 10					
78457 Konstanz					
Lukas.Schmidt-Mende@uni-					
konstanz.de					

Vladimir Dyakonov Julius-Maximilians University Würzburg Am Hubland 97074 Würzburg dyakonov@physik.uni-wuerzburg.de Christoph Lienau Carl von Ossietzky University Oldenburg Ammerländer Heerstraße 114-118 26129 Oldenburg Christoph.Lienau@uni-oldenburg.de

Tremendous progress has been achieved in the performance of hybrid solar cells, with efficiencies now exceeding 20 % for devices based on organometallic halide perovskites. This symposium brings together scientists from various disciplines, e.g. thin-film photovoltaics (inorganic/organic), device physics, materials science, and theoretical physics to discuss the present state of the art of fundamentals, device architectures, and material development in the field of hybrid photovoltaics. Particular attention will be devoted to unique characteristics for the respective photovoltaic system such as the dynamics of excitations at hybrid interfaces or the role of the ferroelectric polarization in the photogeneration process.

Overview of Invited Talks and Sessions

(Lecture room H1)

Invited Talks

SYHP 1.1	Mon	9:30-10:00	H1	Perovskite Semiconductors: Opportunities and Challenges for Photo- voltaic Materials Design — •DAVID B. MITZI
SYHP 1.2	Mon	10:00-10:30	H1	Perovskite Solar Cells: A new Paradigm in Photovoltaics — • MOHAMMAD NAZEERUDDIN
SYHP 1.3	Mon	10:30-11:00	H1	Charge-Carrier Diffusion and Radiative Efficiencies in Hybrid Metal Halide Perovskites — •LAURA HERZ
SYHP 1.4	Mon	11:15-11:45	H1	Photovoltage losses in perovskite solar cells — \bullet KRISTOFER TVINGSTED
SYHP 1.5	Mon	11:45-12:15	H1	Computational screening of perovskite solar energy materials — •KARSTEN W. JACOBSEN

Sessions

SYHP 1.1–1.5 Mon 9:30–12:15 H1 Fundamentals of Hybrid and Perovskite Photovoltaics

Related Sessions

Chemical and Polymer Physics Division (CPP)

Tutorial: Hybrid and Perovskite Photovoltaics, Sun 16:00–18:30 (H18) Hybrid and Perovskite Photovoltaics I, Mon 15:00–17:30 (H38) Hybrid and Perovskite Photovoltaics II, Tue 10:45–13:00 (H37) Poster Hybrid and Perovskite Photovoltaics, Mon 18:15–21:00 (B2)

Working Group on Energy (AKE)

High Efficiency Photovoltaics, Tue 9:30–10:30 (H3)

Thin Films Division (DS)

Hybrid and Perovskite Photovoltaics III, Wed 9:30–11:45 (H11)

Semiconductor Physics Division (HL)

Hybrid and Perovskite Photovoltaics IV, Thu 14:45–18:30 (H2)

Surface Science Division (O)

Organic-Inorganic Systems II: Energy Level Alignment, Wed 10:30–13:00 (S054) Organic-Inorganic Systems III: Electronic Structure, Thu 15:00–18:00 (S051)