

Sino-Germany Workshop on **Printable Photovoltaics**

May 21st – 23rd, Erlangen, Germany

Organized by













Program

Monday, May 20, 2024 Arrival Tuesday, May 21, 2024 H14 lecture hall							
					Time	Speaker	Title
					09:30 - 09:45	Christoph Brabec Friedrich-Alexander-Universität Erlangen- Nürnberg, Germany	Welcome
09:45 - 10:10	Hin-Lap Yip City University of Hong Kong, China	Interface and optical design for organic-based transparent and tandem solar cells					
10:10 - 10:35	Derya Baran King Abdullah University of Science and Technology (KAUST),Saudi Arabia	Strategies for resilient organic photovoltaics					
10:35 - 11:00	Tayebeh Ameri Christian-Albrechts-Universität zu Kiel, Germany	Low-Dimensional materials for enhanced performance and longevity in perovskite photovoltaics					
11:00 - 11:20	Coffee break						
11:20 - 11:45	Nicola Gasparini Imperial College London, UK	From UV to Near-Infrared light detection: next generation photodetectors for imaging and biometric applications					
11:45 – 12:10	Xiaoyan Du Shandong University, China	Stability of organic optoelectronics: the influence of illumination as well as thermal and mechanical stress					
12:10 - 12:35	Fei Guo Jinan University, China	Solution-printed perovskite tandem solar cells					
12:35 - 14:00	Lunch break						
14:00 - 14:25	Fu Yang Suzhou Sun flex New Energy Co.Ltd,China	Scalable printing of perovskite film for efficient and stable photovoltaic module in ambient atmosphere					
14:25 - 14:50	Yousheng Wang Jinan University, China	Wide-bandgap hybrid perovskites based indoor photovoltaics and tandems					
14:50 – 15:15	Wolfgang Heiss Friedrich-Alexander-Universität Erlangen- Nürnberg, Germany	Epitaxial lead-halide-perovskite microcrystal microcavity lasers					
15:15 - 15:35	Coffee break						
15:35 - 16:00	Tian Du Helmholtz-Institut Erlangen-Nürnberg für Erneuerbare Energien, Germany	Full printing of perovskite solar modules					
16:00 – 16:25	Vincent M Le Corre Friedrich-Alexander-Universität Erlangen- Nürnberg, Germany	Machine learning and device modeling as an automated diagnostic tool for high-throughput research					
16:25 – 16:50	Jianchang Wu Helmholtz-Institut Erlangen-Nürnberg für Erneuerbare Energien, Germany	Discovering One Molecule Out of a Million: Inverse Design of molecular hole transporting semiconductors tailored for perovskite solar cells					
18:00		Social dinner Lawn outside the HI ERN building					

	Wednesda	ay, May 22, 2024	
Fraunhofer-Institut			
Time	Speaker	Title	
09:30 - 09:55	Yongsheng Chen Nankai University, China	High performance OPV and their application in wearable devices	
09:55 - 10:20	Yi Hou National University of Singapore, Singapore	Unlocking the potential of perovskite solar cells: from single-junction to tandem	
10:20 - 10:45	Ning Li South China University of Technology, China	Developing organic photovoltaics towards high efficiency and stability	
10:45 - 11:10	Simon Kahmann Chemnitz University of Technology, Germany	The power of optical spectro-microscopy in the realm of energy materials	
11:10 - 11:30	Coffee break		
11:30 - 11:55	Yakun He King Abdullah University, Saudi Arabia	Single-Component Organic Solar cells: efficiency, stability, and industrial viability	
11:55 – 12:20	Chaohong Zhang Peking University Shenzhen Graduate School, China	Multifunctional Ionic Hydrogels: synthesis and applications	
12:20 - 12:45	Bo Xiao Wuhan University, China	Modification of Metastable Phase in Organic Solar Cells- Degree of Polymerization	
12:45 - 14:00	Lunch break		
14:00 - 14:25	Larry Luer Friedrich-Alexander-Universität Erlangen- Nürnberg, Germany	Identifying crucial device parameters in emerging photovoltaics: towards a digital twin	
14:25 - 14:50	Jens Hauch Helmholtz-Institut Erlangen-Nürnberg für Erneuerbare Energien	AMANDA – A materials acceleration platform for autonomous solar cell optimization	
14:50 – 15:15	Chao Liu Helmholtz-Institut Erlangen-Nürnberg für Erneuerbare Energien	Optimized Interconnnecting Layer for Perovskite/Organic tandem Solar Cells	
15:15 – 15:30		Closing remarks	

Erlangen Beer Festival Meet at Martin-Luther-Platz & walk to Erlanger Bergkirchweih

Poster session (with finger food & drinks)

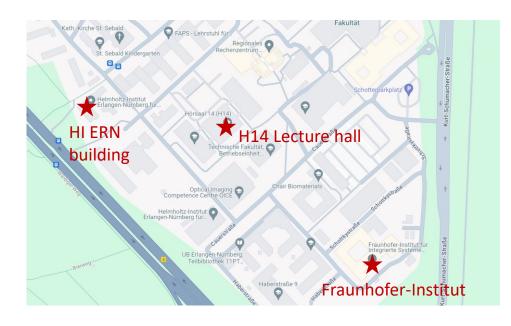
18:30

15:30 - 17:00

	Thursday, May 23, 2024
10:00	Meet at seminar room (1st floor), HI ERN building
10:00 – 12:00	Tour at HI ERN and IMEET
12:00 – 12:40	Bus transfer to Energy Campus Nuremberg (EnCN)
12:40 – 14:00	Tour at EnCN
14:00	Lunch at EnCN, followed by bus transfer back to Erlangen

Information

- Venue for Day 1: **H14 Lecture hall**, Martensstraße 5/7, 91058 Erlangen
- Dinner for Day 1: HI ERN building, Immerwahrstraße 2, 91058 Erlangen
- Venue for Day 2: Fraunhofer-Institut, Schottkystraße 10, 91058 Erlangen
- Meeting point to Erlanger Bergkirchweih for Day 2: Martin-Luther-Platz, 91054 Erlangen, then walk to to Bergstraße 21-11, 91054 Erlangen



H14 Lecture hall



Through entrance of IMEET



HI ERN building



Fraunhofer-Institut





Martin-Luther-Platz



(Followed by 10 min's walk to Bergstraße)

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