European Materials Research Society

2026 Spring Meeting

May 25 - 29
Strasbourg Convention Centre

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SYMPOSIUM A

Thin-film chalcogenide materials for PV and solar energy conversion

Oral sessions : LONDRES 2 - GROUND FLOOR
Poster sessions : ETOILE - FIRST FLOOR

Symposium Organizers:

Bart VERMANG (Main organizer A), University of Hasselt / Institute for Materials Research, Belgium
Martina SCHMID (Main organizer B), University of Duisburg-Essen, Germany
Sascha SADEWASSER, International Iberian Nanotechnology Laboratory, Portugal
Xiaojing HAO, University of New South Wales, Australia
Yukiko KAMIKAWA, National Institute of Advanced Industrial Science and Technology, Japan

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Monday May 25

A01 Bifacial CIGS Solar Cells (Hi-BITS Session)

Chairperson(s): KAUFMANN Christian

SURESH Sunil

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08:30	205	Developing AI-driven tools for accelerated research of complex systems and monitoring of industrial production processes **GUC Maxim (Invited)**
09:00	1215	Insights into Cu(In,Ga)Se2 growth behavior on transparent back contacts with an industrial deposition process and fabrication of sub-modules **WITTE Wolfram**
09:15	800	Investigation of GaOx formation at the (Ag,Cu)(In,Ga)Se2/In2O3:Sn interface with STEM and XPS techniques **VIOLAS André F.**
09:30	1578	Backside Passivation Approaches in Bifacial CIGSe Solar Cells **BAYAT Saeed**
09:45	1278	Enhancing bifaciality in high-performance ACIGSe bifacial solar cells **DE MARZI Matteo**

Monday May 25

A02 Light Management

Chairperson(s): RATH Christoph

SIEBENTRITT Susanne

View session abstracts

10:30	798	Optimizing light trapping and scattering in tandem solar cells using nano-and micropatterened structures **POLMAN Albert (Invited)**
11:00	1539	Optical Simulations for the Optimization of Light Trapping Schemes in Ultrathin Cu(In,Ga)Se2 Solar Cells **OLIVEIRA António J. N.**
11:15	1285	Towards a highly accurate digital twin of a thin-film solar cells on the example of Cu(In,Ga)Se2 with light management measures **SONG Chang-Yun**
11:30	1952	Advanced Light Management and Passivation Strategies in Ultrathin CIGS Solar Cells **KOZLOV Loukiana**
11:45	1851	Optimized Reflective Back Contacts and Ag Alloying for High-Efficiency Ultrathin CIGS Solar Cells **HAJHEMATI Javid**

Monday May 25

A03 Tandem PV

Chairperson(s): GUC Maxim

DE MARZI Matteo

View session abstracts

14:30	1756	CIGS absorber development for monolithic Perovskite/CIGS tandem solar cells **KAUFMANN Christian (Invited)**
15:00	596	Record efficiency for transparent wide-bandgap Cu(In,Ga)S2 solar cells **KAUR Kulwinder**
15:15	1967	Over 17% Efficient, Molecular-Ink based (Ag, Cu)(In,Ga)(S,Se)2 Solar Cells and Monolithic Chalcogenide-Perovskite Tandem Solar Cells **SURESH Sunil**
15:30	1787	Effects of Ag Incorporation in a 1.0 eV CuInSe2 Bottom Cell with a Hole Transport Layer **ZHOU Zhuangyi**
15:45	1982	Suppressing Buried Interface Nonradiative Recombination Losses Toward High-Efficiency Antimony selenide Solar Cells **CHEN Guojie**

Monday May 25

A04 Doping

Chairperson(s): CARRON Romain

KAUR Kulwinder

View session abstracts

16:30	2031	Doping Strategies for High-Efficiency Flexible CIGS and Perovskite/CIGS Tandem Solar Cells **YANG Chunlei (Invited)**
17:00	211	Optimizing Na and Rb incorporation along with bandgap grading for high efficiency ultra-thin CIGSe solar cells **RATH Christoph**
17:15	1719	Ag-Alloying in $Cu(In,Ga)Se_2$: A Study of Efficiency Gains and Reduced Urbach Energy **GUTZLER Rico**
17:30	1542	Silver-alloying technique for Cd-free and all-dry process Cu(In,Ga)S2 solar cells **NISHIMURA Takahito**
17:45	2463	Influence of Ag Alloying on the Microstructural, Surface, and Optoelectronic Properties of ACIGS Absorbers for High-Efficiency Thin-Film Solar Cells **TOM Thomas**
18:00	2165	Understanding group-I-poor secondary phases in wide-gap (Ag,Cu)(In,Ga)Se2 solar cells **JAMES Ann Maria**
18:15	2177	Interface recombination as the dominant performance limiting mechanism in state-of-the-art CIGS thin-film solar cells **BRAMMERTZ Guy**

Tuesday May 26

A05 Flexible CIGS and BIPV

Chairperson(s): GROSSBERG-KUUSK Maarja

QIAN Chen

View session abstracts

08:30	3119	Recent Progress in Development of Thin-Film Chalcopyrite Solar Cells on PXP **SUGIMOTO Hiroki (Invited)**
09:00	518	Development of novel carrier-selective passivating contacts for flexible ultra-thin film solar cells **SIEIRA Bárbara**
09:15	1986	Synergistic Mechanical-Optoelectronic Engineering Enables Highly Deformable and Efficient Flexible Sb2Se3 Solar Cells **CHEN Mingdong**
09:30	2274	Efficient and Aesthetically Tunable Flexible CIGS Solar Cells for Building-Integrated Photovoltaics **PINHEIRO Xavier Leitão**
09:45	2813	Optimization of wide bandgap Cu(In,Ga)Se2 for indoor applications **BIDAUD Thomas**

Tuesday May 26

A06 Antimony-Chalcogenide Solar Cells

Chairperson(s): COLOMBARA Diego

PLATZER BJÖRKMAN Charlotte

View session abstracts

10:30	1339	Tailoring the defect structure of Sb2Se3 via doping to increase the absorber's potential for efficient solar energy conversion **GROSSBERG-KUUSK Maarja (Invited)**
11:00	317	In situ Na2S additive strategy enabling certified 10.7% efficiency antimony chalcogenide solar cells **Hao Xiaojing**
11:15	937	Enhancing the efficiency of Sb2(S,Se)3 solar cells beyond 9% via SDS assisted microstructural control **GUPTA Harshvardhan**
11:30	2661	Prospects in the Development of Ultrathin Sb2(S,Se)3 Thin Films by Close-Spaced Sublimation for Photovoltaic Applications **BABU SUSEELA Athulya**
11:45	1182	Alternatives to Te-adhesion layer for selenium solar cells. **PAYNO David**
12:00	21_2812	Bismuth- and Silver-Alloyed Chalcogenide Thin Films: Tunable Optoelectronic Properties for Photovoltaic Applications **KUMAR Jitendra**

Tuesday May 26

A07 Contacts and Interfaces

Chairperson(s): BIRANT Gizem

SUGIMOTO Hiroki

View session abstracts

13:45	634	Contact- and interface engineering for CIGS and CZTS-based thin film solar cells **PLATZER BJÖRKMAN Charlotte (Invited)**
14:15	452	ALD Zinc Tin Oxide Buffers for Chalcopyrite Solar Cells: Electrical Barriers and Conduction Band Cliffs **KOREN Boaz**
14:30	2287	Nanoscale electrical insights into Cd-free $Zn_{1-x}Sn_xO_y$ buffer layers for CIGSe thin-film solar cells **NICOARA Nicoleta**
14:45	2956	PVD buffer layer for high efficiency, stable and wide bandgap Cu(In,Ga)S2 thin film solar cell **BARREAU Nicolas**
15:00	2653	Towards Cd-free wide-bandgap photovoltaics: tuning ZTO buffer layers for CuGaSe2 thin films deposited by Pulsed Electron Deposition **COLOMBARA Diego**
15:15	2818	A Temperature-Stable, High-Mobility Titanium-Doped In2O3 Transparent Back Contact for Bifacial ACIGSe Solar Cells. **MUDGAL Sapna**
15:30	2556	TCAD Investigation of Cu3SbS4 as a Hole Transport Layer in CIGS Solar Cells **Shapouri Samaneh**
15:45	998	Comparative study of electron transport layers CdS and TiO2 for Sb2(S,Se)3 solar cells **MOOSI GOVINDHARAJULU Srinivasan**

Tuesday May 26

APO2 Poster session 2

View session abstracts

16:30	03_1211	Linking Alkali Content to Admittance and Impedance Signatures in CIGS Solar Cells through 2D Device Simulations **LICHOCKI Eryk**
16:30	04_1234	Growth of crystalline selenium thin-films **Hemmingsen Tobias Høyrup**
16:30	05_1314	Governing Factors on the Performance, Reproducibility and Stability of Sb2S3 solar cells **GALCA Aurelian Catalin**
16:30	06_1319	Modelling chalcogenide solar cells from first principles to utility scale using SOLEY **JEHL Li-Kao Zacharie**
16:30	07_1321	Temperature-dependent current-voltage analysis of co-evaporated Sb2Se3-based substrate thin-film solar cells **SCAFFIDI Romain**

16:30	08_134	Tuning the Optoelectronic properties of Mo5e2 Nanosheets through Heterostructure Formation with Ag25e nanocrystals **YADAV Jyoti**
16:30	09_1415	Development of integrated CIG5 solar cells on lightweight flexible substrates **KAMIKAWA Yukiko**
16:30	10_1455	Spectroscopic Assessment of Open-Circuit Voltage Losses in CIG5 Thin-Film Solar Cells and Tandem Devices **CAO Siliang**
16:30	11_149	Investigation of Electrical and Optical Properties of Chemical Vapor Deposition Grown Mo52(1-x)5e2x **BHARTI Kamini**
16:30	12_1553	Hybrid optical modelling of light trapping in thin-film solar cells **Jehl Li-Kao Zacharie**
16:30	13_1563	Interfacial Phenomena Control Photoelectrocatalytic Activity and Selectivity of Cu(In,Ga)52 Photocathodes **REIS SANTOS Daniely**
16:30	14_1631	Ionic chalcogenides for photovoltaic application **VLÁŠKOVÁ Kristina**
16:30	15_1636	Hole Transport Layer to Improve Efficiency in Chalcogenide Thin-Film Solar Cells **Endrino Jose Luis**
16:30	16_1639	Materials-efficient fabrication process for micro-striped semi-transparent and bifacial Cu(In,Ga)5e2 solar cells **FONSECA José**
16:30	17_1736	Chalcogenide compound semiconductors at low temperatures **SCHORR Susan**
16:30	18_1763	High-Throughput and inline All-Sputtered CIG55e: Pathways to Efficient Sub-micrometer Flexible Photovoltaics **VIOLAS André F.**
16:30	19_1836	CZT55e by spray deposition: an analysis of the selenization process **VENERI Alessandro**
16:30	20_1845	Structural, Optical, and Electrical Properties of Inverted Sb253/Cd5 Thin-Film Heterostructures for Photovoltaic Applications **PRIETO RAMÍREZ Rocio**
16:30	21_1849	Nanoimprint Lithography-Enabled Light-Trapping Architectures for Ultrathin and Bifacial Solar Cells **RIBEIRO Enzo**
16:30	22_1850	Precursor Solution Concentration Engineering for Spin-Coated CZT5 Thin-Film Absorbers **SAAR Annabel**
16:30	23_1857	Optimization of Sustainable Grid Deposition Process for Flexible CIG5 Solar Cells **PIRES Ana Rita**
16:30	25_221	Computationally driven exploration of the structure and electronic properties of Cu2Ge5e3 for use in high-performance thin film photovoltaic alloys. **COX Philippa**

16:30	26_414	Bias-free Solar Hydrogen Generation Coupled with Plastic Reforming Using Ag-Substituted Cu2Cd5n54 Photocathodes **ZHANG Shuo**
16:30	27_682	Of Bandgaps and Broken Voltages: A Hyperspectral View of Perovskite/CIG5 Tandems **BIRANT Gizem**
16:30	28_834	Fabrication-route-dependent excitonic and phononic responses in monolayer W52 under controlled environments **OH Hye Min**
16:30	29_869	Optimizing Alkali Halide Incorporation in CIG5 Absorber Layers: A Comparative Study of NaF and NaBr **DUFOULON Vincent**
16:30	30_900	Defect State Engineering of Cu25n53 Nanocrystals for Solar-Thermal-Electrical Conversion Application **ROY Abhishek**

Wednesday May 27

A09 Photoelectrodes for Solar Fuels

Chairperson(s): DE WILD Jessica

MÖNIG Harry

View session abstracts

08:30	3007	Design of Earth Abundant Chalcogenide as Photocathode for Solar Water Splitting by Defects and Interface Engineering **WONG Lydia (Invited)**
09:00	93	Boosting CO2 photo-reduction and selectivity switching from CH4 to CO on tin disulfide thin film having fluorine-dopant pairing with sulfur vacancy **MAMO Tadios Tesfaye**
09:15	3212	Engineering Sb253 Photocathodes with Improved Charge Transport and Long-Term Stability for Solar Hydrogen Evolution **GHORBANI Mina**
09:30	2609	Self-Powered Electrochemical Ammonia Production with >95% faradic efficiency using Kesterite Photocathodes anchored with Ru-based single-atom Covalent Organic Framework. **SURESH Sunil**
09:45	1890	PV Materials, PEC Design: Adapting solution-based kesterite absorbers deposited on transparent substrates for solar fuel applications **CORSETTI Valentina**

Wednesday May 27

A10 Chalcogenide Perovskites

Chairperson(s): CORSETTI Valentina

WONG Lydia

View session abstracts

10:30	2783	Chalcogenide perovskite thin films for photovoltaics **JARAMILLO Rafael (Invited)**
11:00	2722	High Optoelectronic Quality in BaZrS3 Thin Films by Reactive Sputtering and Low-Temperature Solid-State Sintering **ITZHAK Anat**
11:15	1551	Impact of the Cation Ratio on BaZrS3 Crystallization Kinetics in Sulfurization of Oxide Precursors **RÖTTGER Adriana**
11:30	2825	Temperature-dependent spectroscopic properties of chalcogenide perovskites **KAYASTHA Prakriti**
11:45	306	Exploring CaZrO3-xSx Oxy-Chalcogenide Perovskite Thin Films **ALTHUBYANI Hussain**

Wednesday May 27

A11 Characterization and Material Insights

Chairperson(s): JARAMILLO Rafael

SCHORR Susan

View session abstracts

13:45	1762	Nanoscale interface analytics at the p/n-junction of chalcopyrite thin-film solar cells **MÖNIG Harry (Invited)**
14:15	1199	Na segregation and back interface characterization in pure sulphide CIGS absorber **DEMOULIN Rémi**
14:30	1323	Nanoscale optical and structural properties of sodium-doped sulphide CIGS absorber **Dongmo Richel**
14:45	1642	Cross-sectional analysis of epitaxial CIGSe solar cells via Kelvin probe force microscopy **BAGHESTANI Elham**
15:00	1671	Suppression of GaxOy Growth on bifacial CIGS/ITO Solar cells by NaF-Precursor Interface Engineering **MEESSEN Felix**
15:15	1280	Chemo-mechanical coupling as key for understanding the thermodynamics of Ag(x)Cu(1−x)GaSe2 thin films **KARANIKOLAS Vasileios**
15:30	2290	Novel insights into the tail states of Cu(In, Ga)Se2 absorber layers from full-spectrum photoluminescence fitting. **DE WILD Jessica**
15:45	773	Compact models for capacitance spectroscopy of CIGS solar cells **LAUWAERT Johan**

Thursday May 28

A12 Emerging Materials (ReNewPV Session – COST Action CA21148)

Chairperson(s): KUMARI Neha

ROMEO Alessandro

View session abstracts

08:30	992	Influence of deposition method and sodium incorporation on Sb2S3 thin films for superstrate solar cells **LÁZARO-CASTRILLÓN Luna**
08:45	1623	Effect of annealing thermal profiles on the performance of hydrothermally deposited Sb2S3 thin films for photovoltaic applications **PIERRI ENEVOLDSEN Andrea Maria**
09:00	1476	From Molecular-Induced Repair to Interfacial Nucleation Control: A Kinetics-Guided Strategy for High-Efficiency Cd-Free Sb2(S,Se)3 Solar Cells **HU Yue**
09:15	2376	Adjusting nucleation chemistry for the atomic layer deposition of antimony selenide on metal oxide surface **LIAO Pei-Chun**
09:30	1655	Enhancing USP-deposited Sb2S3 Solar Cell Performance via Annealing Process for Interfacial Defect Passivation **ASARE Ernest Adiyiah**
09:45	361	The effect of the sulphurisation rate on Bi2S3 films prepared by thermal vapour sulphurisation of sputtered bismuth precursors. **FORSYTH-HUGHES Jake**

Thursday May 28

A13 Kesterite Solar Cells

Chairperson(s): ISHIZUKA Shogo

PIERRI ENEVOLDSEN Andrea maria

View session abstracts

10:30	1981	Controllable SnS-Vapor-Assisted Selenization to Enhance Carrier Transport for Highly Efficient Kesterite Solar Cells **JIAN Yue**
10:45	959	Rapid Cooling After Device Annealing for High-Efficiency Pure-Sulfide CZTS Thin-Film Solar Cells **NASYORI Achmad**
11:00	1989	Quasi-epitaxial heterojunction interface reconstruction enables 11.96% certified efficiency in Cd-free Cu2ZnSnS4 solar cells **LUO Ping**
11:15	2799	Vibrational properties of wurtz-kesterite Cu2ZnSiSe4 and of Cu2ZnGexSi1-xSe4 solid solutions **ROTARU Victoria**
11:30	3433	Chalcogenide Photovoltaics: A Reflective Perspective on Past and Future **Tiwari Ayodhya (Invited)**

Thursday May 28

A14 CdTe and Emerging Absorber Materials

Chairperson(s): SALOMÉ Pedro

WITTE Wolfram

View session abstracts

13:45	1248	Advances of CdTe Photovoltaics **BECKER James (Invited)**
14:15	801	Recombination at grain boundaries in CdTe absorber layers: influence of Se alloying and $CdCl_2$ treatment **ABOU-RAS Daniel**
14:30	1877	How to dope CdTe with Sb using Sb2Se3 as a back contact. **ARTEGIANI Elisa**
14:45	1489	Carrier–Lattice Interactions as a Design Metric for Chalcogenide Energy Materials **DIMITRIEVSKA Mirjana**
15:00	2402	Ordering and phase stability in prototypical chalcogenide perovskite BaZr(S,Se)3 **FRANSSON Erik**
15:15	272	Unveiling Charge Recombination Pathways in Pnictogen Chalcohalide Solar Cells **LÓPEZ Cibrán**
15:30	1237	Advancement of AgBiS2 photovoltaics using a molecular precursor ink **KUMARI Neha**
15:45	41	Sputtering-Sulfurization Synthesis of Wide-Gap Barium Copper Sulfide Thin Films **LABLALI Younes**

Thursday May 28

AP04 Poster session 4

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16:30	01_1866	The CuInxGa1-xSe films deposition from granular target with RF magnetron sputtering in a “pulsating arc” mode **NAZAROV Oleksiy**
16:30	03_1858	How the molybdenum process influences the growth of CZTS: a comparative study of different lab-grown and commercial molybdenum substrates **VENERI Alessandro**
16:30	05_1870	Vapour transport deposition and thermal evaporation of Sb2Se3 absorbers: how the growth process influences the properties of the photovoltaic devices. **ARTEGIANI Elisa**
16:30	06_1882	CdTe solar cells for tandem Si solar cells **MUKHTAR Mariyam**
16:30	08_2086	Alkali co-alloying effects on CZTSSe solar cells **KIM Junho**

16:30	09_2114	Flexible and lightweight Cu(In,Ga)(S,Se)2 for photovoltaic applications with reduced processing temperatures **PROT Aubin**
16:30	10_2168	Carrier-Resolved Photo-Hall Analysis of Selenium Thin Films and Solar Cells **NIELSEN Rasmus**
16:30	11_2276	Modeling Hole Extraction in CIGSe Solar Cells with Transparent ITO Back Contacts via Tunneling **WOLF Oliver**
16:30	12_2289	Exploring a Near-Complete Rear Passivation for Ultra-Thin ACIGS **PINHEIRO Xavier Leitão**
16:30	13_2346	Investigation of Tin Monosulfide Heterostructure Solar Cells with Zinc Tin Oxide and Molybdenum Oxide Interlayers **SPASOVA Stanka**
16:30	14_2381	Bulk and interfacial defects in Sb2Se3 chalcogenide thin film solar cells **URBANIAK Aleksander**
16:30	15_2382	The effect of RbF-PDT on Ag-containing low-temperature grown low bandgap Cu(In,Ga)Se2 absorbers for tandem solar cells **ADELEYE Damilola**
16:30	16_2582	Controlled Cu-Ag Substitution in Electrodeposited Kesterite (Cu,Ag)2ZnSnS4 Thin Films **ZAKI Mohamed Yassine**
16:30	17_2591	Layer-Dependent Growth and Electrical Performance of Sb2S3 Thin-Film Chalcogenide Solar Cells for Photovoltaic Applications **BENAISSA Nouhaila**
16:30	18_2618	Non-destructive Steady-state and Time-resolved Photoluminescence Characterization of Photovoltaic Devices **GUTIERREZ-PARTIDA Emilio**
16:30	19_2625	High band gap Cu(In,Ga)S2 based solar cell for tandem application : Investigation of the absorber/ITO back contact interface **HAREL Sylvie**
16:30	20_2650	Epitaxial growth of large-grained wide-bandgap Cu(In,Ga)Se2 on glass using layer-exchanged Ge seed layers **NISHIDA Takeshi**
16:30	22_2987	numerical simulation approach of all kesterite thin film solar cells **KHEMIRI Naoufel**
16:30	23_3027	Impact of Interface Layers on Close Space Sublimation Deposited Antimony Sulphide Solar Cells **ALMUSHAWWAH Aeshah A**
16:30	24_3035	Effect of deposition time on one-step deposited Cu(In,Ga)Se2 films using a ternary Cu-In-Ga target **OUBAKI Rachid**
16:30	25_3113	Resonant Raman spectra of cadmium sulfide wurtzite: A first principles simulations study **KACHMAR Ali**
16:30	26_3145	Interface engineering for photovoltaics : Design and characterization of high-performance thin films based on chalcogenide perovskites. **AOUSGI Fethi**

16:30	27_3190	Model and experimental studies of micropatterned solar cell devices for semi-transparent PV applications **PHIPPS Phipps**
16:30	28_3247	High Purity Synthesis of Lead-free Chalcogenide Perovskites for Photovoltaics **EL MAOUED Mo**
16:30	29_3276	Synthesis and photoluminescence characterization of nano-sized CdSe **NEDEOGLO Natalia**
16:30	30_3282	GaSe thin films with a vertically stacking wall-like structure for novel optoelectronic and sensing application **Vatavu Elmira**

Friday May 29

A16 CIGS Materials

Chairperson(s): CABALLERO Raquel

MOURA Margarida

View session abstracts

08:30	197	Grain growth without guaranteed performance: Unravelling the contradictory impact of Ag on CIGS photovoltaics using a realistic 3D Digital Twin **SONG Chang-Yun**
08:45	1979	Tracing the Origins of Non-Radiative Recombination in Ag-Alloyed Wide-Gap Cu(In,Ga)Se2 Solar Cells **MITMIT Ceren**
09:00	1156	Comparative analysis of different epitaxial growth techniques for Cu(In,Ga)Se2 thin films deposited on GaAs substrates **FALL Penda**
09:15	1827	Microstructural Evolution and Sodium Diffusion in Solution-Processed CISSe Absorbers via Hybrid Se/SeS2 Sulfo-selenization **MA Ye**
09:30	2403	Metastability in CIGS: Experimental challenges to the model and paths toward a revised framework **URBANIAK Aleksander**
09:45	1632	Pushing the performance of micro-striped semi-transparent Cu(In,Ga)Se2 solar cells by improved selenization process and edge collection **RODRIGUES Nuno**

Friday May 29

A17 Antimony Chalcogenide and Se Solar Cells (ReNewPV Session – COST Action CA21148)

Chairperson(s): MITMIT Ceren

SPALATU Nicolae

View session abstracts

10:30	944	Sustainable, low-cost inorganic chalcogenide thin-film solar cells **CABALLERO Raquel (Invited)**
11:00	1648	Conformal ultrathin Sb2S3 growth via interface modification for high V_OC semi-transparent solar cells **HUSSIEN Hadeer**
11:15	1944	Sulfur-assisted defect passivation in hydrothermally grown Sb2S3 absorbers for thin-film solar cells **GILSHTEIN Evgeniia**
11:30	641	Optimization of pulsed thermal evaporation parameters for tellurium-free selenium solar cells **MOURA Margarida**
11:45	3360	Dielectric-Based Tunnel Interfaces for Wide-Bandgap Selenium Solar Cells **TAMIN Charif**