

2022 PACE Young Scientist Conference

| | Monday 10 October 2022 | | |
|--------------------|---|---------------------------------|-------------|
| Science | Coffee and Registration | | 9:30-11:00 |
| Opening Conference | | 11:00-12:20 | |
| Lunch | | 12:20-13:3 | |
| | SESSION I Thin film preparation | | |
| Invited talk | Deposition of functional thin films by Spatial Atomic Layer Deposition | David Muñoz-Rojas | 13:30-14:10 |
| 1 | ALD-Deposition of cathodic materials for 3D Li-ion micro batteries – Ongoing results | Antoine Peisert | 14:10-14:30 |
| 2 | Deposition of perovskite based thin films with controlled stoichiometric compositions using a combinatorial deposition process: Chemical Beam Vapour Deposition | Vincent Rogé | 14:30-14:50 |
| | Coffee break | | 14:50-15:05 |
| Invited talk | Aerosol deposited thick films | Hana Ursic | 15:05-15:45 |
| 3 | Processing of piezoelectric thin films on glass by flash lamp annealing | Juliette Cardoletti | 15:45-16:05 |
| 4 | Ferroelectric Lead-Free (K,Na)NbO ₃ Thin Films by Chemical Solution Deposition | Nagamalleswara Rao Alluri | 16:05-16:25 |
| | Coffee break | | 16:25-16:40 |
| 5 | Effect of annealing atmosphere on ferroelectricity of solution-processed La:HfO ₂ thin films. | Barnik Mandal | 16:40-17:00 |
| 6 | Structural characterization of Sn atomic clusters synthesized by Cluster Beam Deposition | Jose Enrique Martinez Medina | 17:00-17:20 |
| | Networking and Social drinks | | 17:20-18:30 |
| | Dinner | | 18:30-21:00 |
| | Tuesday 11 October 2022 | | |
| | SESSION II Optoelectronic properties | | |
| Invited talk | Induced functionalities by symmetry breaking | Marin Alexe | 9:00-9:40 |
| 7 | How to measure electronic transitions in ferroic oxides? | Christina Hill | 9:40-10:00 |
| 8 | Optical effects in ferroelastic domains and their walls | Georgy Gordeeev | 10:00-10:20 |
| | Coffee break | | 10:20-10:35 |
| Invited talk | Optical properties of transition metal dichalcogenides: single-photon emitters and strain | Florian Libisch | 10:35-11:15 |
| 9 | Optical Properties of highly Anisotropic Crystals | Angelina Gudima | 11:15-11:35 |
| 10 | Birefringence change induced by antiferroelectric switching in transparent PbZr _{0.95} Ti _{0.05} O ₃ film | Pranab Biswas | 11:35-11:55 |
| | Coffee break | | 11:55-12:10 |
| 11 | Curcuminoid borondifluoride: new dyes for the organic laser diode | Anthony D'Aléo | 12:10-12:30 |
| 12 | Influence of red and blue light on optical and electrical properties of Cu(In,Ga)(S,Se) ₂ and Cu(In,Ga)Se ₂ absorbers | Aubin Prot | 12:30-12:50 |
| | Lunch | | 12:50-13:50 |



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FISC 2022

PROGRAMME



| Invited talkMolecular engineering of interfaces for stable and efficient perovskite solar cellsAnurag Krishna13:50-14:3013Synthesis and Characterization of CH3NH3Sh13 Films: A Path Towards Lead- Free Perovskite Solar CellsAjay Singh14:30-14:3014Optimizing front transport layers for achieving high efficiency wide band-gap Cu(In,Ga)Se2 solar cellMohit Sood14:50-15:1015Orid optimization for PV mini-modules employing CIGS micro stripesShilpi Shilal16:05-16:2515Grid optimization for PV mini-modules employing CIGS micro stripesShilpi Shilal16:05-16:2516Inkjet printing of thin chalcogenide semiconductor layers for solar cell applicationsAlice Debot16:25-16:0517Anisotropy-induced fluctuations in Cu(In,Ga)Se2Diego Colombara T7:20-17:4017:00-17:2018Back surface passivation of chalcopyrite solar cells with Metal oxide interlayersDiego Colombara T3:00-17:2017:00-17:2018Accurate composition depth profiling of light elements in thin films (using ion talkDaniel Primetzhofer9:00-9:4019New imaging modalities for thin films imaging Using Helium Ion Microscopy MaterialsDusin Andersen to:00-10:200:03-11:1520Thin Film Characterization of piezoelectric thin filmsNicolas Godard 10:35-11:1510:35-11:1521Helium implantation for tuning functional properties in sol-gel filmsConstance Toulouse11:15-11:1522Atomistic simulations of electrocaloric effects in ferroelectric- superlaticesDiaa Elisa Murillo 11:35-11:15 </th <th></th> <th></th> <th></th> <th></th> | | | | | |
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| Luxembourg | | Standing Lunch & Poster Session | | 12:50-13:00 | |
| Closing of the conference & Drinks | 25 | | Max Wolter | 15:00-16:00 | |
| | | Closing of the conference & Drinks | | | |



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