

ECT26

European Conference on Thermoelectrics

14–18 September 2026
John McIntyre Conference Centre,
Edinburgh, UK



IOP Institute of Physics



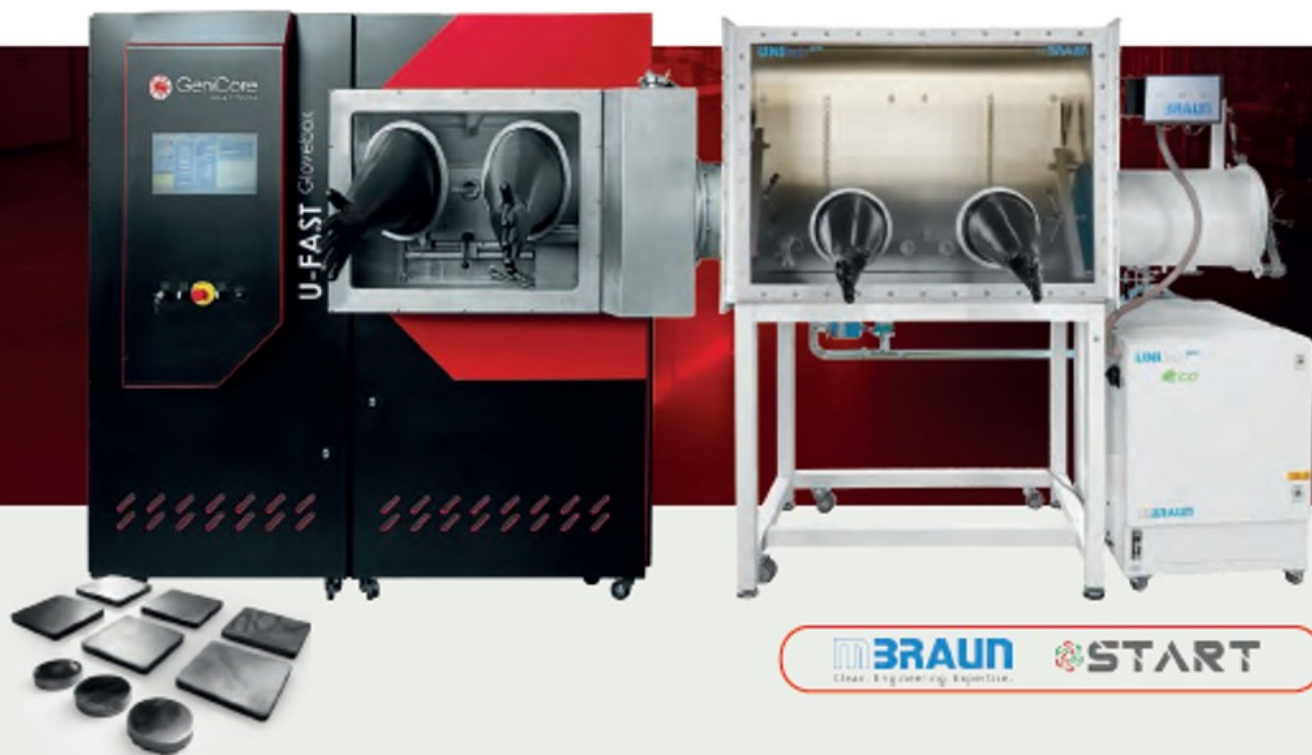


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START

U-FAST UNilab

ø 90 mm	Pressing Stamp Diameter
300 kN	Pressing force
10 000 A	Max Current
5x10 ⁻⁵	Oil rotary pump + Turbomolecular pump
UNilab mibraun	Glovebox system

PARAMETERS

14	Max. output voltage [V]
0.8 – 999	Pulse duration [ms]
0 – 500	Pulse Pause [ms]
1 – 500	Number of pulses
fully programable	Pulse control



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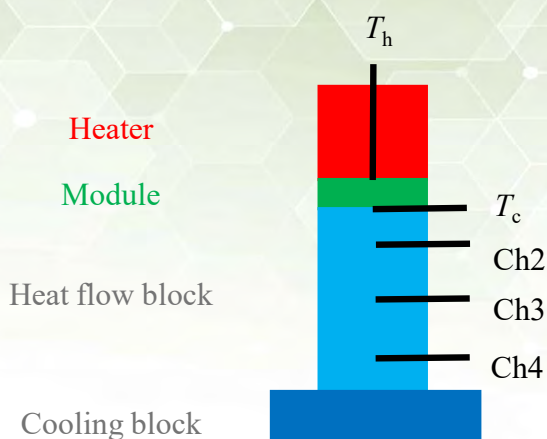
TEG/TEC Evaluation System Mini-PEM-TEC

Enables both power generation and Peltier evaluation of thermoelectric modules using a single device.

Block diagram

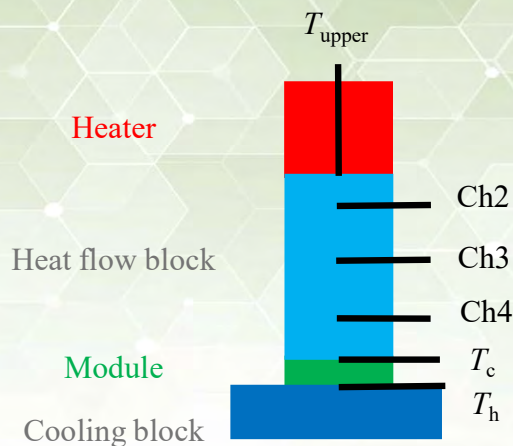
Power generation evaluation type

Measured physical properties: power generation, heat flow rate, conversion efficiency



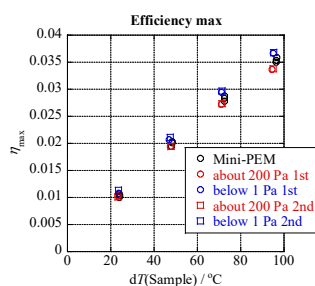
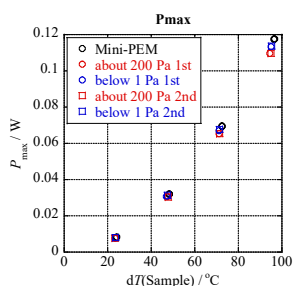
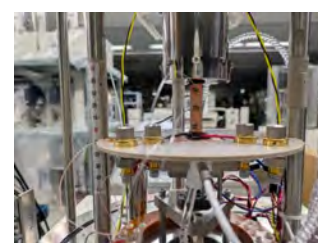
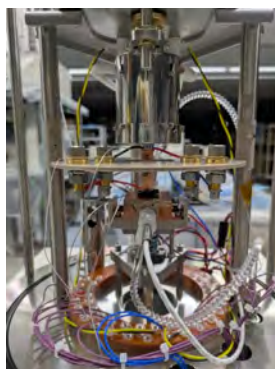
Peltier evaluation type

Measured physical properties: sample temperature difference, cooling capacity, COP

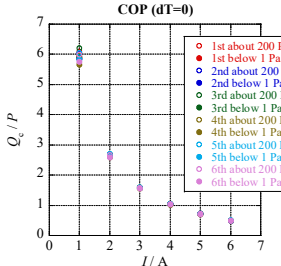
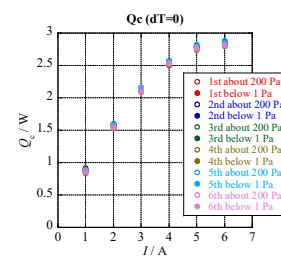
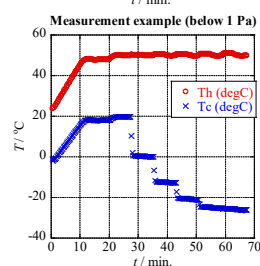
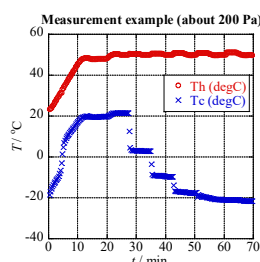


T_h , T_c , T_{upper} : E-type thermocouple / Ch2, Ch3, Ch4 : K-type thermocouple

Photos and measurement data example



About 200 Pa: Vacuum by diaphragm pump
Below 1 Pa: Vacuum by turbo molecular pump
Mini-PEM : Vacuum by rotary pump



Inquiries

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Tuesday 15 September 2026

8:00 AM - 8:30 AM	Registration and Refreshments
8:30 AM - 9:00 AM	Welcome – ETS Assembly Room: Pentland
9:00 AM - 9:45 AM	Plenary Talk: Matthias Wuttig , RWTH Aachen University, Germany Tailoring Thermoelectrics through metavalent Bonding Session Chair: Paz Vaqueiro Room: Pentland
9:45 AM - 10:15 AM	Invited Talk: Andrej Pustogow , Vienna University of Technology, Austria Advent of the Metal Age of Thermoelectricity Session Chair: Paz Vaqueiro Room: Pentland
10:15 AM - 10:30 AM	IOP Membership Benefits: Matt Lovell , IOP, UK Room: Pentland
10:30 AM - 11:00 AM	Morning Break
11:00 AM - 12:15 PM	Chalcogenides-1 Session Chair: Krzysztof Wojciechowski Room: Pentland 11:00 AM - 11:15 AM Paz Vaqueiro Structure-Property Relationships in Thermoelectric Copper-Iron Sulfides 11:15 AM - 11:30 AM Arthur Wieder Enhancing the Thermoelectric Performance of Cu_2SnSe_3 through Structural Ordering Control 11:30 AM - 11:45 AM Yuting Qiu Enhanced Lattice Symmetry via Mn Doping Boosts Electrical Transport Performance in Rhombohedral GeSe Thermoelectric Materials 11:45 AM - 12:00 PM Indrajit Haldar Conduction Band Convergence and Modular Nanostructures: Driving High Thermoelectric Performance in n-Type PbSe 12:00 PM - 12:15 PM Hanna Donyk Toward Efficient and Earth-Abundant Thermoelectrics: Anion-Tuned $\text{Cu}_2\text{FeSnS}_{4-x}\text{Se}_x$

11:00 AM - 12:15 PM	Organics and Hybrids Session Chair: Iris Nandhakumar Room: East Terrace 11:00 AM - 11:15 AM Muhammet Toprak Synergistic Enhancement of Bi₂Te₃/Sb₂Te₃–PMMA Thermoelectric Generators via Dithiol-Assisted Conductivity and FEM-Based Geometry Optimization 11:15 AM - 11:30 AM Federico Giulio Electrical Characterization of Encapsulated Vertically Aligned Silicon Nanopillars Obtained via Metal-Assisted Chemical Etching 11:30 AM - 11:45 AM Mina Saeidnia Processing and Doping Effects in P3HT for High-Performance Organic Thermoelectric Modules 11:45 AM - 12:00 PM Surajit Das High-Performance Fully Flexible Self-Supported Thermoelectric Generator from Bi₂Se₃ and Cu₃BiS₃ Based Composites 12:00 PM - 12:15 PM Seyedmohammad Mortazavinatanzi Flexible Cellulose-Based Insulated Metal Substrates for Thermoelectric Modules
11:00 AM - 12:15 PM	Applications-1 Session Chair: Patricia Aranguren Room: Prestonfield 11:00 AM - 11:15 AM Raúl Aragonés Ortiz Evolution of a Thermoelectric IIoT Platform for Continuous Furnace Monitoring 11:15 AM - 11:30 AM Alireza Rezaniakolaei Energy storage system integrated with low temperature gradient thermoelectric generator for self-powering industrial sensor platforms 11:30 AM - 11:45 AM David Astrain Ulibarrena Field Demonstration of Passive Geothermal Thermoelectric Generators: Long-Term Field Operation and Opportunities for Performance Improvement 11:45 AM - 12:00 PM Jovana Kovacevic SPIRIT - Sustainable Power Integration and Recovery of Industrial Thermal Waste 12:00 PM - 12:15 PM Miguel Araiz Autonomous Power Supply for Coastal Volcanic Monitoring through Geothermal Thermoelectric Generators in Intertidal Settings
12:15 PM - 1:30 PM	Lunch

1:30 PM - 3:00 PM	Heusler-1 Session Chair: Michihiro Ohta Room: Pentland 1:30 PM - 2:00 PM Chenguang Fu (Invited Speaker) Defects and thermoelectric transport in Half-Heusler compounds 2:00 PM - 2:15 PM Ran He Point-Defect Modulation as a Design Strategy for Optimizing Thermoelectric Transport in Half-Heusler Compounds 2:15 PM - 2:30 PM YE Sheng Electron and Phonon Transport Properties of The Single-crystalline TiCoSb - based Half-Heuslers 2:30 PM - 2:45 PM Eric Alleno Improved thermoelectric properties in Ga-substituted p-type Fe₂Val 2:45 PM - 3:00 PM XUE NAN Defect Complexity-Induced Local Bonding Reconstruction Enables Synchronized Thermoelectric Performance in V_{0.9}Fe_{0.5}Co_{0.5}Sb-based Half-Heusler Thermoelectrics
1:30 PM - 3:00 PM	Machine Learning Session Chair: Philippe Jund Room: East Terrace 1:30 PM - 2:00 PM Elif Ertekin (Invited Speaker) Direct Physical Modeling vs. Learned Patterns: Computation-Guided Thermoelectric Materials Discovery in the Age of Machine Learning 2:00 PM - 2:15 PM Guojing Huang Machine Learning Interatomic Potentials for Microstructural Defects in SnSe and SnTe 2:15 PM - 2:30 PM Nirmal Kumar Ramalingam Simple physics-based correction of CRTA predictions towards ab-initio accuracy thermoelectric transport 2:30 PM - 2:45 PM Jose J. Plata Accelerating the Discovery of Thermoelectric Skutterudites through Efficient Chemical Space Exploration 2:45 PM - 3:00 PM Haoji Yang Machine learning-enabled design and optimisation of thermoelectric devices: from generators to coolers

1:30 PM - 3:00 PM	Microharvesting Session Chair: Carlo Fanciulli Room: Prestonfield 1:30 PM - 2:00 PM Kafil M. Razeeb (Invited Speaker) Development of micro-thermoelectric devices for ambient applications 2:00 PM - 2:15 PM Heiko Reith Toward High-Efficiency Micro-Thermoelectric Cooling: The Role of Leg Height Optimization 2:15 PM - 2:30 PM Yao Lu Chalcogenide-based Flexible Thermoelectric Films and Devices for Multifunctional Applications 2:30 PM - 2:45 PM Nan Luo Optimizing performance of printed flexible origami thermoelectric generator via non-stoichiometry and sulfur inclusion 2:45 PM - 3:00 PM Olga Caballero-calero Electrochemically Deposited Nanostructured Bi₂Te₃ for Flexible Thermoelectric Energy Harvesting
3:00 PM - 3:30 PM	Afternoon Break
3:30 PM - 5:00 PM	Zintl-1 Session Chair: Ran He Room: Pentland 3:30 PM - 3:45 PM Johannes de Boor Grain boundary engineering for high temperature stable Mg₂Si-based thermoelectric materials 3:45 PM - 4:00 PM SARAN Mayilsamy Fermi-level Engineering and Band gap Renormalization for High Performance Bi-doped Mg₂Si_{0.6}Sn_{0.4} Solid Solution for Thermoelectric Application 4:00 PM - 4:15 PM Jing Tang High-performance Mg₂SiSn-based thermoelectrics with superior compression strength and elastic resilience 4:15 PM - 4:30 PM Navita Jakhar Discovery of Resonant-Like Doping in Mg₃Sb₂ for High-Efficiency Thermoelectrics 4:30 PM - 4:45 PM António Pereira Gonçalves Gamma-Irradiation-Induced $\gamma \rightarrow \alpha$ MgAgSb solid-state phase transformation: Mechanisms and Implications 4:45 PM - 5:00 PM Jun Li Atomic Layer Deposited Cu Incorporation Enables Enhanced Thermoelectric Performance in n-Type Mg₃(Sb, Bi)₂

3:30 PM - 5:00 PM	Emerging Session Chair: Takao Mori Room: East Terrace 3:30 PM - 3:45 PM Alireza Rezaniakolaei Evaluation of TE-Catalyst Driven CO₂ Hydrogenation under Non-Pressurized Reaction Conditions 3:45 PM - 4:00 PM Davide Spirito Multiphysics simulation of germanium-tin thermophotovoltaics 4:00 PM - 4:15 PM Zhenhua Ge Highly stabilized thermoelectric performance in natural mixed minerals 4:15 PM - 4:30 PM Vicente Pacheco Recycling of Bi₂Te₃ based thermoelectric modules: progress for the recovery of bismuth and tellurium 4:30 PM - 4:45 PM Ali Bashiri Rezaie Fabrication of thermoelectric cementitious composites using continuous functionalized CNT-coated polymer fibers 4:45 PM - 5:00 PM Xin Feng Optimizing textured structure of polycrystalline SnSe thermoelectric material by solvent-regulated cold sintering
3:30 PM - 5:00 PM	Harvesting and Sensing Session Chair: Kafil Razeed Mahmood Room: Prestonfield 3:30 PM - 3:45 PM Xiaodong Wang 3D elastic inorganic thermoelectric network for body heat energy harvesting 3:45 PM - 4:00 PM Carlo Fanciulli Wearable Thermal Management System Based on Thermoelectric Device and Textile Heat Exchanger 4:00 PM - 4:15 PM Shanghao Chen Near-Equilibrium Interfacial Engineering for Robust and High-Performance Bi₂Te₃-based Thermoelectric Generators 4:15 PM - 4:30 PM Feng Cao Improved thermoelectric thin-film device performance via integrating optical thin films 4:30 PM - 4:45 PM Adhiraj Sundar From Height-Optimized to Upscaled Micro-Thermoelectric Generators for Autonomous IoT Applications 4:45 PM - 5:00 PM Richard Tuley Beyond Flexible Devices: the System Challenge
6:00 PM - 7:30 PM	Evening Excursion (pre-booking only): Walking Tour of Edinburgh or Whisky Tasting

Wednesday 16 September 2026

8:30 AM - 9:00 AM	Arrival tea/coffee
9:00 AM - 9:45 AM	Plenary Talk: Kornelius Nielsch , IFW Dresden, Germany Durable thermoelectric devices made from sustainable magnesium-antimony alloys Session Chair: Olga Caballero Room: Pentland
9:45 AM - 10:15 AM	Invited Talk: Aniruddha Ray , Thermagy, The Netherlands Thermoelectric modules and applications: an industrial perspective Session Chair: Olga Caballero Room: Pentland
10:15 AM - 10:30 AM	Heremans Memorial: Bartek Wiendlocha Room: Pentland
10:30 AM - 11:00 AM	Morning Break
11:00 AM - 12:15 PM	Zintl-2 Session Chair: Johannes de Boor Room: Pentland 11:00 AM - 11:15 AM Umut Aydemir Defect-Mediated Thermoelectric Properties in $A_{14}AlBi_{11}$ ($A = Ca, Sr, Yb$) Zintl Phases 11:15 AM - 11:30 AM Radhika Ravindra Stabilizing $Mg_2(Si,Sn)$ Thermoelectric Materials by Suppressing Mg Sublimation Using Aerogels and Atomic Layer Deposition 11:30 AM - 11:45 AM Theo Renard Increasing the thermoelectric performance of $MgAgSb$ by fine-tuning the $MgAg$ synthesis 11:45 AM - 12:00 PM Xiao Xu Improved Thermoelectric Properties of p-Type Mg_3Sb_2 via Cation Site Confinement for all- Mg_3Sb_2 -Based Module Application 12:00 PM - 12:15 PM Kunpeng Zhao Atomic to Nanoscale Chemical Fluctuations: The Catalyst for Enhanced Thermoelectric Performance in High-Entropy Materials

11:00 AM - 12:15 PM	Exotic Effects Session Chair: Andrej Pustogow Room: East Terrace 11:00 AM - 11:15 AM Krzysztof Wojciechowski From Incommensurate Structure to Transport Functionality in Fe–Ge Nowotny Chimney–Ladder Phases 11:15 AM - 11:30 AM Kacper Pryga Zn-induced topological phase transition and thermoelectric enhancement in SnTe 11:30 AM - 11:45 AM Yunhao Mo Thermoelectric Transport in Monolayer and Bilayer MoS₂ 11:45 AM - 12:00 PM Shuva Biswas Low Energy Shear Vibrations of Sb₂ Bilayer Driving Ultralow Lattice Thermal Conductivity in Homologous (Sb₂)_m(Sb₂Te₃)_n 12:00 PM - 12:15 PM Weishu Liu Thermoelectric Figure-of-Merit: from Electrons to Ions
11:00 AM - 12:15 PM	Current Modules and Beyond Session Chair: Kornelius Nielsch Room: Prestonfield 11:00 AM - 11:30 AM Takao Mori Development of high performance thermoelectric materials & modules for power generation and cooling 11:30 AM - 11:45 AM Dario Narducci Transitioning Thermoelectricity from Static to Dynamic 11:45 AM - 12:00 PM Joaquin Gabriel Miranda Design of PN-junctions for energy converters 12:00 PM - 12:15 PM Aravind Babu Sustainable Hybrid Thermoelectrics: Comparative Performance Analysis of Synthetic Material Integrated with Mined Waste Material and Purely Synthetic Material
12:15 PM - 1:30 PM	Lunch

1:30 PM - 3:00 PM	Chalcogenides-2 Session Chair: Emmanuel Guilmeau Room: Pentland 1:30 PM - 2:00 PM Christophe Candolfi (Invited Speaker) Anomalous Lorenz number in heavily-doped semiconductors 2:00 PM - 2:15 PM Hab. Taras Parashchuk Cu-based chalcogenides for reliable near-room-temperature thermoelectric cooling 2:15 PM - 2:30 PM Jincheng Yu Giant ZT enhancement in rhombohedral GeTe-based thermoelectric materials 2:30 PM - 2:45 PM Florian A. Busch Impact of chemical heterogeneity at grain boundaries on the local thermal conductivity of $\text{Sn}_{1-x}\text{Mn}_x\text{Te}$ thermoelectrics 2:45 PM - 3:00 PM Laura Agnarelli Interplay Between Vacancy Ordering and Transport Properties in Ni-base metal-rich chalcogenides $\text{Ni}_7-\delta\text{SnSe}_2$ and $\text{Ni}_7-\delta\text{SnS}_2$
1:30 PM - 3:00 PM	Electronic Transport Theory Session Chair: Elif Ertekin Room: East Terrace 1:30 PM - 2:00 PM Janusz Tobola (Invited Speaker) Interplay of electronic structure, disorder and complexity to improve the performance of thermoelectric materials 2:00 PM - 2:15 PM Ole Martin Løvvik Competing effects of electron scattering in materials with low-dimensional band structures 2:15 PM - 2:30 PM Saff E Awal Akhtar Anisotropic Scattering and Elongated Bands Lead to Ultra-High Power Factors in Full-Heuslers 2:30 PM - 2:45 PM Illia Serhienko Energy-selective transport as a strategy to minimize the Lorenz number in metallic thermoelectrics 2:45 PM - 3:00 PM Sumit Kukreti Dopant-induced bandstructure and power factor modifications in NbFeSb and NbCoSn

1:30 PM - 3:00 PM	Applications-2 Session Chair: David Astrain Room: Prestonfield 1:30 PM - 2:00 PM Patricia Aranguren (Invited Speaker) Thermoelectric Subcooling Technology to Enhance Vapor Compression Systems 2:00 PM - 2:15 PM Patricia Alegría Thermoelectric Energy Recovery in Dual-Fuel Marine Engines: Waste Heat and LNG Cold Energy Utilization 2:15 PM - 2:30 PM Arne Stumpf Development of Thermoelectric Generators with a Manufacturing-Friendly Design for Stationary and Mobile Applications 2:30 PM - 2:45 PM Mirosław Mrozek Multichannel Power Conditioning System for TEG Arrays Under Non-Uniform Temperature Distribution Using a Modified Sine-Cosine MPPT Algorithm
3:00 PM - 6:00 PM	Poster Session and Afternoon Break Room: South Hall (located in a separate building from the main conference venue)
6:00 PM - 7:30 PM	Evening Excursion (pre-booking only): Walking Tour of Edinburgh or Whisky Tasting

Thursday 17 September 2026

8:30 AM - 9:00 AM	Arrival tea/coffee
9:00 AM - 9:45 AM	Plenary Talk: Ken-ichi Uchida , National Institute for Materials Science (NIMS) & The University of Tokyo, Japan Transverse Thermoelectrics and Spin Caloritronics Session Chair: Christophe Candolfi Room: Pentland
9:45 AM - 10:15 AM	Invited Talk: Emmanuel Guilmeau , CRISMAT, CNRS, France Crystal and defect chemistry in thermoelectric sulfides Session Chair: Christophe Candolfi Room: Pentland
10:15 AM - 10:30 AM	Anthony Powell Memorial: Emmanuel Guilmeau Room: Pentland
10:30 AM - 11:00 AM	Morning Break
11:00 AM - 12:15 PM	Novel Material Directions Session Chair: Sylvie Hebert Room: Pentland 11:00 AM - 11:15 AM Kim-Isabelle Mehnert-Birk Enhanced thermoelectric power factor by transition metal substitution in the Kagome metal Ni ₃ Sn 11:15 AM - 11:30 AM Yu Pan Topological thermoelectrics for solid state cooling 11:30 AM - 11:45 AM Sheng Qian Anomalous Nernst Effect and Transverse Thermoelectric Conversion in Co ₂ MnAl-Based Heusler Magnets 11:45 AM - 12:00 PM Jan Koenig Au-Ni thin film thermoelectrics 12:00 PM - 12:15 PM Monika Lužnik Nonlinear transverse transport in Weyl-Kondo semimetals

11:00 AM - 12:15 PM	Composites Session Chair: Muhammet S. Toprak Room: East Terrace 11:00 AM - 11:15 AM Daniela Schönauer-Kamin Powder Aerosol Deposition of Bi_2Te_3: Thermoelectric Properties from Thick Films to Bulk Like Samples 11:15 AM - 11:30 AM Beate Krause Melt-mixed thermoplastic polymer/CNT composites for energy generation through the thermoelectric effect 11:30 AM - 11:45 AM Davide Spirito Toward flexible and conformable thermoelectric energy harvesting based on poly(vinylidene fluoride) with Bi_2S_3 and Bi_2Te_3 11:45 AM - 12:00 PM Savvas Hadjipanteli Composite thermoelectric samples made via cold-press sintering based on PEDOT:PSS aerogels 12:00 PM - 12:15 PM Kaspars Pudzs Thermoelectric Composites Based on Chalcogenide Particles and Organic Charge-Transport Molecules
11:00 AM - 12:15 PM	Applications-3 Session Chair: Eckhard Muller Room: Prestonfield 11:00 AM - 11:15 AM Reshma krishnan Madathil Design and Integration Framework for Thermoelectric Technologies in Buildings 11:15 AM - 11:30 AM Haiyang Li Geometry-Driven Design of Thermoelectric Coolers via Topology Optimization 11:30 AM - 11:45 AM Filip Janasz Quantifying the Effect of Lateral Heat Flux Heterogeneity on the Output of Anisotropic Thermoelectric Heat Flux Sensors 11:45 AM - 12:00 PM José F. Serrano-Claumarchirant Hybrid Thermoelectrics as a Platform for Printable Wearable Energy Harvesting Systems 12:00 PM - 12:15 PM Qian Zhang Three-dimensional flexible thermoelectric network for energy harvesting and sensing
12:15 PM - 1:30 PM	Lunch

1:30 PM - 3:00 PM	Nanomaterials Session Chair: Luis Fonseca Room: Pentland 1:30 PM - 2:00 PM Iris Nandhakumar (Invited Speaker) Enhanced Interfacial Charge Transport in Hybrid Materials for High Thermoelectric Performance 2:00 PM - 2:15 PM Elena Pérez-Picazo Record Thermoelectric Performance at Room Temperature Via Electrodeposited Films of Silver Selenide (Ag₂Se) and Copper Selenide (Cu₂Se) 2:15 PM - 2:30 PM Abayomi Lawal Sustainable Solution Processing of High-Performance PbTe 2:30 PM - 2:45 PM Antonio Mazzacua Nanocrystalline Si Thin Films Grown by Low-Temperature E-Beam Evaporation for Thermoelectric Applications 2:45 PM - 3:00 PM GwangMin Park Nanowire-Bundled Grain Boundaries in Thermoelectric Materials
1:30 PM - 3:00 PM	Materials Theory Session Chair: Ole Martin Løvvik Room: East Terrace 1:30 PM - 2:00 PM Philippe Jund (Invited Speaker) Machine Learning for Thermoelectric Materials Discovery: From Data Curation to Validation 2:00 PM - 2:15 PM Bartłomiej Wiendlocha Electronic structure, transport and lattice dynamics of a novel Cu-based thermoelectric chalcogenide Cu_{6+y}Te_{3-x}S_{1+x}: theoretical study 2:15 PM - 2:30 PM Ankit Kumar Ab initio thermoelectric transport calculations of high entropy materials 2:30 PM - 2:45 PM Dariusz Wieczorek Theoretical study of the electronic structure, thermoelectric properties and electronic correlations in pristine and doped GeMnTe₂ 2:45 PM - 3:00 PM Romain Claes BaCuP: A Promising Layered Phosphide Thermoelectric from First-Principles and Machine-Learning Simulations

1:30 PM - 3:00 PM	Heusler Modules Session Chair: Aniruddha Ray Room: Prestonfield 1:30 PM - 2:00 PM Michihiro Ohta (Invited Speaker) Thermoelectric waste heat recovery for vehicles with lean-burn spark-ignition engines 2:00 PM - 2:15 PM Geoffrey Roy Improved performances of Fe₂VAl-based thermoelectric modules 2:15 PM - 2:30 PM Panagiotis S. Ioannou Metallization routes for low resistance contacts in p-type (Nb,Ta)FeSb half-Heuslers: experimental characterization and thermoelectric modelling 2:30 PM - 2:45 PM Soufiane Eloualid Diffusion-Controlled Interfacial Evolution in Ti Contacts to n-type Half-Heusler 2:45 PM - 3:00 PM Xiaofang Li Dual High Performance ZrCoBi-based Half-Heusler Module for Thermoelectric Generation
3:00 PM - 3:30 PM	Afternoon Break
3:30 PM - 5:00 PM	Zintl/Heusler-3 Session Chair: Chenguang Fu Room: Pentland 3:30 PM - 3:45 PM Andres Conca Parra Maximizing thermoelectric performance in Fe₂VAlM_x (M=W, Ti) thin films by synergistic combination of chemical ordering and controlled doping 3:45 PM - 4:00 PM Huili Liu P-type to n-type transition in excitonic insulator Ta₂NiSe₅ and its thermoelectric transport 4:00 PM - 4:15 PM Saba Shahgoli High-Performance 14-1-11 Thermoelectrics via Sb-Induced Carrier Tuning in Ca₁₄AlBi_{11-x}Sb_x 4:15 PM - 4:30 PM Blair Kennedy Mechanistic insight into phase formation and fast processing of Cu doped thermoelectric half-Heusler TiNiSn 4:30 PM - 4:45 PM Panagiotis Mangelis The important role of Ti doping in the thermoelectric efficiency improvement of p-type (Nb,Ta)FeSb-based half-Heusler phases 4:45 PM - 5:00 PM Andreas Delimitis Nanostructural Modifications in Ti-doped Nb_xTa_{1-x}FeSb Half-Heusler Thermoelectrics

3:30 PM - 5:00 PM	Measurement and Characterisation Session Chair: António Pereira Gonçalves Room: East Terrace 3:30 PM - 3:45 PM Mahjabeen Fatima Fabrication of robust hBN-Encapsulated Graphene Sensors: A Path to Practical Johnson Noise Thermometry 3:45 PM - 4:00 PM Subhra Sourav Jana Probing Local Electrical Properties at Thermoelectric–Electrode Interfaces via Correlative KPFM and Seebeck Microprobe Techniques 4:00 PM - 4:15 PM Dominique Mattlat Understanding the mechanisms behind Zn-diffusion in Zn₄Sb₃ thermoelectric materials for long term material stability 4:15 PM - 4:30 PM Patricia Carvalho Data-driven design principles of tetrahedrites: Statistical analysis and experimental validation 4:30 PM - 4:45 PM Marc Aceituno Silicon-Based Planar μTEG Platform for the Integration and Evaluation of Thin-Film Thermoelectric Materials 4:45 PM - 5:00 PM František Mihok Accessible thermoelectrics characterization at room temperature and observed anisotropy in polycrystalline SnSe materials
3:30 PM - 5:00 PM	Interfaces and Stability Session Chair: Richard Tuley Room: Prestonfield 3:30 PM - 3:45 PM Li Yin Combining CALPHAD with low-temperature sintered nano-silver forms a powerful technology chain for design and fabrication of high-performance thermoelectric generators 3:45 PM - 4:00 PM Arige Hodroj From material to device: impact of microstructure on oxidation and stability of skutterudites 4:00 PM - 4:15 PM Tianran Wei Plastic deformation and metalworking for inorganic thermoelectric materials 4:15 PM - 4:30 PM Swagata Patra What Makes a Diffusion Barrier Effective for Colusite? 4:30 PM - 4:45 PM Anilkumar Bohra Sustainable Interfacial Engineering in Low-Cost Cu_{6.2}Te_{2.3}S_{1.7} 4:45 PM - 5:00 PM Kyuseon Jang Retarding moisture-induced chemical degradation of Yttrium Tellurides by tailoring grain boundary chemistry

7:00 PM -
11:00 PM

Drinks Reception and Conference Dinner

Dynamic Earth, Holyrood Road, Edinburgh, EH8 8AS

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Friday 18 September 2026

8:30 AM - 9:00 AM	Arrival tea/coffee
9:00 AM - 9:45 AM	Plenary Talk: Clivia M. Sotomayor Torres , International Iberian Nanotechnology Laboratory, Portugal Phonon transport experiments: achievements and challenges to engineer thermoelectric parameters Session Chair: Christophe Candolfi Room: Pentland
9:45 AM - 10:00 AM	Goldsmid Memorial: Dario Narducci Room: Pentland
10:00 AM - 10:30 AM	Morning Break
10:30 AM - 11:30 AM	Materials Session Chair: Taras Parashchuk Room: Pentland 10:30 AM - 10:45 AM Sylvie Hebert Power factor optimization and thermal conductivity reduction in selected sulfides 10:45 AM - 11:00 AM Joris More-chevalier Thermoelectric properties of Nb/W doped ScN multilayer structures 11:00 AM - 11:15 AM Mia-eussa Gautier Unraveling Complex Crystal Structures and Cation Ordering in Cu-Sn-Se Thermoelectric Compounds 11:15 AM - 11:30 AM Peter Baláž Mechanochemical Synthesis In Pb-X-S (X=Bi,Sb) Systems And Their Thermoelectric Performance
10:30 AM - 11:30 AM	Additive Manufacturing Session Chair: Heiko Reith Room: East Terrace 10:30 AM - 10:45 AM Mateusz Pindel Laser Powder Bed Fusion of $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ Thermoelectric Legs: Processing, Interfaces, and Performance 10:45 AM - 11:00 AM Guillaume Savelli Optimisation of Silicon Germanium alloys performances developed by Laser Powder Bed Fusion 11:00 AM - 11:15 AM Sumner Gubisch Design and Scaling of Additively Manufactured Thermoelectric Heat Exchangers Using Lattice Structures

	11:15 AM - 11:30 AM Aayush Dobhal Additive Manufacturing of Ni-Based Thermoelectric Materials for Waste Heat Recovery
10:30 AM - 11:30 AM	Phonons, Fundamental Aspects Session Chair: Ankit Kumar Room: Prestonfield 10:30 AM - 10:45 AM Marcelo Augusto Malagutti Investigating microstructural effects in the lattice thermal conductivity and thermoelectric properties of $\text{Cu}_{2+y}\text{Zn}_{1-y}\text{SnS}_x\text{Se}_{4-x}$ alloys 10:45 AM - 11:00 AM Aryan Sankhla Unveiling low temperature thermal transport in $\text{AgGaTe}_2\text{-AgInTe}_2$ chalcopyrite solid solutions 11:00 AM - 11:15 AM Nicolas Perez Structural order and thermoelectric transport in the substitution topological insulators $\text{Sb}_2\text{SeyTe}_{3-y}$ ($y = 0.3-2$) 11:15 AM - 11:30 AM Misha Khalid Strategies reducing thermal conductivity in ZnO films
11:45 AM - 12:15 PM	Prize Talk: Lucas Le Gars, Kyushu University, Japan Defect engineering and triangular copper as key drivers for ultralow thermal conductivity in Cu_2ZrS_3 polytypes Session Chair: Dario Narducci Room: Pentland
12:15 PM - 12:45 PM	Next Year ECT / Conclusion Room: Pentland
12:45 PM - 1:15 PM	Lunch (grab and go)

Poster Presentation List

Poster No.	First Name	Last Name	Organisation	Paper Title	Theme
1	Raúl	Aragonés Ortiz	AEInnova	A Battery-Free, Waste-Heat-Powered IIoT Architecture for Real-Time Steam Trap Diagnostics	1. Thermoelectric Devices and Applications
2	Rachid	BELRHITI NEJJAR	University of Tours	Passive control of heat flux using a thermoelectric module	1. Thermoelectric Devices and Applications
3	Jinxuan	Cheng		A universal approach to high-performance thermoelectric module design for power generation	1. Thermoelectric Devices and Applications
4	Radoslaw	Chmielowski	IMRA Europe Sas	Evaluation of Contact Engineering Strategies for Achieving Low Electrical Resistance in n-Type Mg ₃ Sb ₂ -Based Thermoelectrics	1. Thermoelectric Devices and Applications
5	Johannes	de Boor	German Aerospace Center	Influence of low-, mid- and high-temperature thermoelectric materials on Radioisotope Thermoelectric Generators (RTGs) design and performance	1. Thermoelectric Devices and Applications
6	Momna	Haq	CHOSE	Role of Electrodes in Liquid and Gelified Thermoelectrochemical Redox Systems for Waste-Heat Recovery Applications	1. Thermoelectric Devices and Applications
7	Matthias	Helmich		High Power Density up to 2.2 W/cm ² in Cryogenic Thermoelectrics for Commercial Vehicle Applications	1. Thermoelectric Devices and Applications
8	Cevriye	Koz	European Thermodynamics Ltd	TEG-Integrated Cookstove for Institutional Use Across Sub-Saharan Africa	1. Thermoelectric Devices and Applications
9	Florian	Liebetau	DLR e.V.	Challenges in the design and development of a customised microinverter for thermoelectric generators for feeding into AC grids and SELV DC grids.	1. Thermoelectric Devices and Applications
10	Jongho	Park	KOREA ELECTROTECHNOLOGY RESEARCH INSTITUTE	Design, Fabrication, and Environmental Reliability of Standardized Bi ₂ Te ₃ -Based Reference Thermoelectric Modules for Industrial Applications	1. Thermoelectric Devices and Applications
11	Nerea	Pascual	Public University of Navarre	Thermoelectric module design governed by heat exchangers	1. Thermoelectric Devices and Applications
12	António	Pereira Gonçalves	CeFEMA, Instituto Superior Técnico, Univ. Lisboa	Thermoelectric Device Integration for Sustainable Energy Optimization in aerial Systems	1. Thermoelectric Devices and Applications
13	Yoshimi	Shimizu	Tohoku University	Design and Fabrication of Cobalt-Oxide-based Thermoelectric Uni-leg Modules	1. Thermoelectric Devices and Applications
14	Haoji	Yang	School of Electronics and Computer Science	Machine Learning-enabled optimisation of multi-pair thermoelectric coolers under dynamic operating conditions	1. Thermoelectric Devices and Applications
15	Fangyuan	YU	Harbin Institute of Technology	Three-Dimensional Ag ₂ Se Thermoelectric Network Advances Multimodal Intelligent Perception	1. Thermoelectric Devices and Applications
16	Pawel	Ziolkowski	German Aerospace Center	TEGonaut: Self-Sufficient Sensor Nodes Powered by Thermoelectric Generators – Development and In-Flight Demonstration on the MAPHEUS Sounding Rocket	1. Thermoelectric Devices and Applications
17	Aradhana	Acharya		Enhancing Thermoelectric Figure of Merit (zT) in β-Ag ₂ Se via Aliovalent Doping	2. Thermoelectric Materials and Processing
18	Marcela	Achimovičová	Institute of Geotechnics, Slovak Academy of Sciences	Thermoelectric properties of mechanochemically doped Cu _{0.6} Ag _{1.4} Se sample series	2. Thermoelectric Materials and Processing
19	Hideki	Arimatsu	Tokyo City University	Correlation between Seebeck Coefficient and Chemical Species in PEDOT:PTSA supported on PET fibers.	2. Thermoelectric Materials and Processing
20	Matej	Baláž		Mechanochemical synthesis as a unique tool to tackle some challenges in thermoelectrics: A case study of copper sulfide	2. Thermoelectric Materials and Processing
21	Oskars	Bitmets	Institute of Solid State Physics, University of Latvia	Modified PEDOT:PSS composite polymer for fabrication of Sb ₂ Te ₃ nanoparticle based thermoelectric hybrid materials	2. Thermoelectric Materials and Processing
22	Alberto	Castellero	University of Turin	Processing of thermoelectric intermetallic compounds for a waste heat harvesting module	2. Thermoelectric Materials and Processing
23	Renāte	Čelmodejeva		Thermoelectric and electric properties of CuI:Ag and PEDOT composites	2. Thermoelectric Materials and Processing
24	Chen	Chen	Tsinghua University	Self-nanostructuring advances thermoelectric copper selenide	2. Thermoelectric Materials and Processing
25	Susmita	Chowdhury	Doctoral Student in Uppsala University	Correlation of Electronic Structure and Thermoelectric properties of Cr(Mo, V) _{Nx} Thin Films Studied by Synchrotron and Lab-based X-ray Spectroscopy	2. Thermoelectric Materials and Processing
26	Andres	Conca Parra	Instituto de Micro y Nanotecnología, IMN-CNM, CSIC (CEI UAM+CSIC)	Thermoelectric performance of Ag ₂ Se films grown by Pulsed Hybrid Reactive Magnetron Sputtering (PHRMS) on glass and flexible substrates	2. Thermoelectric Materials and Processing
27	Sri Sai Samhitha	Gadhavajhala	Indian Institute of Technology Madras	Harnessing Chemical Short-Range Ordering in a Cation-Disordered, Mechanically Resilient AgMnSnBiTe ₄ Multi-Component Thermoelectric Alloy	2. Thermoelectric Materials and Processing
29	Sumner	Gubisch	The George Washington University	Evaluating Reproducibility of Density and Thermoelectric Properties in Additively Manufactured Silver Selenide	2. Thermoelectric Materials and Processing
30	Bejan	Hamawandi	Institute of Solid State Physics, University of Latvia (ISSP UL)	Sustainable Hydrothermal Synthesis of Copper Iodide featuring Near Room Temperature Thermoelectric Properties	2. Thermoelectric Materials and Processing
31	Zizhuang	He	Tsinghua University	Grain boundary engineering enables stable and efficient Mg ₃ (Sb,Bi) ₂ thermoelectric materials	2. Thermoelectric Materials and Processing
32	Jiří	Hejtmánek	FZU - Institute of Physics of the Czech Academy of Sciences	From self-modulation to modulation doping in Bi ₂ O ₂ Se	2. Thermoelectric Materials and Processing
33	Xinxi	Huang	University of Turin	Effects of processing routes, multiphase system engineering and doping on the properties of ZnSb thermoelectric alloy	2. Thermoelectric Materials and Processing
34	Hiroya	Ikeda	Shizuoka University	Thermoelectric properties of NiCu fabrics covered with ZnO nanorods for wearable power generator	2. Thermoelectric Materials and Processing
35	Mohd	Ishtiyak	Institute of Nanotechnology, Karlsruhe Institute of Technology	Toward Printable Thermoelectric Materials Based on AgSbTe ₂ Chalcogenides	2. Thermoelectric Materials and Processing
36	Baohai	Jia	Southern University of Science And Technology	Constructing Magnetic Semiconductors to Enhance Thermoelectric Material Performance	2. Thermoelectric Materials and Processing
37	Nikola	Kanas	University of Novi Sad / Tegmatica Ltd	Thermoelectric properties of co-doped PbTe single crystals	2. Thermoelectric Materials and Processing

38	SHRIKHA	KARUPPIAH	University of St Andrews	Preparation of NbCoSn via 4-probe melting and Properties of NbCoSn	2. Thermoelectric Materials and Processing
39	Petr	Levinsky	FZU - Institute of Physics of The Czech Academy of Sciences	Thermoelectric properties of thin films of Hf-doped ScN	2. Thermoelectric Materials and Processing
40	Adrianna	Lis	AGH University of Krakow	Se/S anion engineering of Cu ₆ .4Te ₂ .2Se _{1.8-x} S _x as a low-tellurium thermoelectric material for cooling applications	2. Thermoelectric Materials and Processing
41	Yi-Ling	Lo	Inorganic Chemistry, Department of Chemistry – Ångström Laboratory, Uppsala University	Heavy-element-doped Chromium Nitride Thin Films for Thermoelectric Properties	2. Thermoelectric Materials and Processing
42	Krishnendu	Maji	Institute of Science And Technology Austria	Glass-Like Thermal Conductivity in n-type Pb-Sb-Sn-based Sulfide Mineral: Interstitial Rattling and Soft Phonon Modes	2. Thermoelectric Materials and Processing
43	Adriana	Maurucaite	Institute of Solid State Physics, University of Latvia	Thermoelectric Properties of Ag ₂ Se-Based Composites Incorporating Organic Small Molecules	2. Thermoelectric Materials and Processing
44	Tadeusz	Miruszewski	Gdańsk University of Technology	Structure, microstructure and thermoelectric properties of novel thermoelectric materials based on Mg-Ag-Sb-Cu-Bi high-entropy alloys	2. Thermoelectric Materials and Processing
45	Yuzuru	Miyazaki	Tohoku University	Selective Defects Synchronize Thermoelectric Performance in V _{0.9} Fe _{0.5} Co _{0.5} Sb-Based Half-Heuslers through Local Bonding Reconstruction	2. Thermoelectric Materials and Processing
46	Shigeyuki	Nakamura	National Institute of Technology, Tsuyama College	Co-doped Cu ₂ SnS ₃ thermoelectric material synthesized by a simple and low-cost method	2. Thermoelectric Materials and Processing
47	Şeyma	ÖZKAN	Dokuz Eylül University	From Coffee Waste to Thermoelectric Materials: Sustainable PEDOT: PSS Composites	2. Thermoelectric Materials and Processing
48	Şeyma	ÖZKAN	Dokuz Eylül University	Fabrication and Characterization of Electrospun PCLPEDOTPSSMWCNT Thermoelectric Nanofiber Composites	2. Thermoelectric Materials and Processing
49	Srivathsan	Prakasam	Indian Institute of Technology Madras	Rational Co-dopant Design in Thermoelectrics via Electronegativity-Guided Alloy Scattering Potentials: A Descriptor-Driven Framework Illustrated by MnTe	2. Thermoelectric Materials and Processing
50	Dejan	Prokop	Faculty of Mathematics and Physics, Charles University and FZU - Institute of Physics of the Czech Academy of Sciences	Characterization of novel nitride thin films prepared by magnetron sputtering for enhanced thermoelectricity	2. Thermoelectric Materials and Processing
51	Ramesh	Raju	Aalto University	MOVPE-Grown InAlGa _N /Ga _N /Al ₂ O ₃ Heterostructures for Thermoelectric Applications	2. Thermoelectric Materials and Processing
52	Latif Bukari	Rashid	King Fahd University of Petroleum And Minerals	Experimental Investigation and Validation of Computationally Predicted Stable Double Half-Heusler Thermoelectric Materials	2. Thermoelectric Materials and Processing
53	Latif Bukari	Rashid	King Fahd University of Petroleum And Minerals	A Review of Double Half-Heusler Thermoelectrics	2. Thermoelectric Materials and Processing
54	Sagarika	Sharma	AGH University of Krakow	Thermal Stability Limits of Cu-Based Argyrodites: Phase Evolution and Degradation in Cu ₈ Si ₃ Se ₃	2. Thermoelectric Materials and Processing
55	Vishak	Sivasubramaniyan Sudandiradevi	IFW Dresden	Investigation of the effect of systematic Nb-addition on the Grain Boundaries of Te-doped Mg ₃ (Sb,Bi) ₂	2. Thermoelectric Materials and Processing
56	Hyoju	Son	Kyungpook National University	Enhanced Thermoelectric Performance and Phase Stability of AgSbTe ₂ via Cation Vacancy Engineering	2. Thermoelectric Materials and Processing
57	Tomoki	Tamamura		The reverse milling phenomenon and thermoelectric properties of sintered compact in PbTe	2. Thermoelectric Materials and Processing
58	Cristina	Vicente Manzano	IMN-CSIC	Enhancement in the thermoelectric figure of merit of 3D-CuNi interconnected nanonetworks	2. Thermoelectric Materials and Processing
59	Suhyeon	Woo	Kyungpook National University	Formation Mechanism of Lamellar Microstructure in (TiCr)FeSb Double Half-Heusler derived Compounds	2. Thermoelectric Materials and Processing
60	Liangjun	Xie	Leibniz Institute for Solid State and Materials Research Dresden	Suppressing Mg Volatilization Enables High Carrier Mobility in Mg ₃ (Sb, Bi) ₂	2. Thermoelectric Materials and Processing
61	Qin	Yao	Shanghai Institute of Ceramics, Chinese Academy of Sciences	Rolling-Enabled High-Performance Free-Standing Ag ₂ Se/PVDF Composite Films for Flexible Thermoelectric Devices	2. Thermoelectric Materials and Processing
62	Boyang	Ying	Zhejiang University	Grain recovery facilitated low-angle grain boundaries and texture for high-performance BiSbTe alloys	2. Thermoelectric Materials and Processing
63	Karolina	Zazakowny	Agh University of Krakow	Enhancement of Power Factor in PEDOT:PSS Composites Using In- and Ti-Doped PbTe Nanopowders Synthesized by Pulsed Plasma in Liquid	2. Thermoelectric Materials and Processing
64	Luigi	Cigarini	It4innovations, VŠb – Technical University of Ostrava	Thermoelectric properties of defective scandium nitride nanostructures from first principles	3. Theory and Modelling
65	Louis	Duhayon	Umons	Impact of side chain substituents on the thermal conductivity of hydrocarbonated polymers assessed by molecular dynamics simulations.	3. Theory and Modelling
66	Rajeev	Dutt	University of Warwick	An ab initio method for extracting mode-specific deformation potentials in thermoelectric materials	3. Theory and Modelling
67	Sara	Ghomi		Multiphysics Modeling of Trap-Assisted Thermoelectric Generation in Reverse-Biased PN-Junctions	3. Theory and Modelling
68	Yuji	Go	University of Warwick	On the validity of temperature dependent exponents for complex electronic structure materials	3. Theory and Modelling
69	Ricardo	Grau-Crespo	Queen Mary University of London	Strategies for incorporating alloy scattering in the calculation of the thermal conductivity of solid solutions	3. Theory and Modelling
70	Lukas	Gupfinger		A validated segregated finite-element solution strategy for thermoelectric module simulation in Elmer FEM	3. Theory and Modelling
71	Barış Oğuz	Gürses	Ege Universitesi	Effect of Amino Acid Doping on the Thermoelectric Properties of PEDOT:PSS : A Numerical Study	3. Theory and Modelling
72	Naomi	Hirayama	The University of Osaka	Electronic structure of Na _x In _y Ge _{136-y} type-II clathrate: carrier tuning via In substitution and Na filling control	3. Theory and Modelling
73	Yaqi	Liu	Kyoto University	Numerical Modelling of Silicon Nano-grain Materials	3. Theory and Modelling
74	Yunhao	Mo		Thermoelectric Transport in Monolayer and Bilayer MoS ₂	3. Theory and Modelling
75	Syedmohammad	Mortazavinatanzi		Module-Level Simulation and Techno-Economic Assessment of Mg-Based and Half-Heusler Thermoelectric Cooling Materials	3. Theory and Modelling
76	Jernej	Mravlje	Jozef Stefan Institute	Thermoelectric effect in excitonic insulators	3. Theory and Modelling
77	Keitaro	Nakamura	Kyoto University	Numerical Modelling of Anisotropic Nano-crystalline Materials	3. Theory and Modelling
78	Christian	Stiewe	German Aerospace Center (DLR)	Simulation of Thermoelectric Modules for Energy Harvesting in Cryo-Fuel Applications	3. Theory and Modelling
80	Jun	YOSHIDA		Compared Degenerate and Non-Degenerate Approximations with Dimensionless Figure of Merit ZT in Fine-Grained n-type Bi ₂ Te ₃ Thermoelectric Materials	3. Theory and Modelling

81	Yao	Zhao	University of Warwick	Symmetry-based orbital overlap rules for scattering in band degenerate valleys	3. Theory and Modelling
82	Nasir	Alzzahrani	University of Reading	Synthesis, Characterization, and Thermoelectric Properties of Copper Bismuth Sulphides.	4. Measurement and Characterisation
83	Florian A.	Busch	Max Planck Institute for Sustainable Materials	A methodology to correlate local chemistry with electronic and phononic transport in thermoelectrics	4. Measurement and Characterisation
84	Raúl	Cardoso-Gil	Max-Planck-Insitut CPfS	THERMOELECTRIC PROPERTIES AND BONDING ANALYSIS ON NATURALLY OCCURRING TENNANTITE FROM COPIAPO, CHILE	4. Measurement and Characterisation
85	Dustin	Henneberg	German Aerospace Center	Power Hardware-in-the-Loop (Power-HIL) System for Thermoelectric Generators (TEGs) to Optimize and Validate MPPT Algorithms with Health Monitoring	4. Measurement and Characterisation
86	Dinesh Kumar	Kedia	Indian Institute of Science Education and Research Pune	Advancing precision in Hall effect through localized heating with a compact design	4. Measurement and Characterisation
87	Hadiqa	Naaz	Nicolaus Copernicus University	Fabrication and Validation of a Seebeck Cell for Precise Thin-Film Thermoelectric Coefficient Measurement: An Integrated Experimental and COMSOL Simulation Study	4. Measurement and Characterisation
88	Michal	Pawlak		Optical based thermal anisotropy methods for thin films.	4. Measurement and Characterisation
89	Tetiana	Tavrina	University of Bonn	Thermoelectric Properties of Ultrathin MoS2 Layers	4. Measurement and Characterisation
90	Keith	Walsh	Independent	Is There Anyone Anywhere in the World Who Knows Anything At All about the Thermoelectric Behaviour of Dental Amalgams?	4. Measurement and Characterisation
91	Saptak	Majumder	Indian Institute of Science Education and Research, Thiruvananthapuram (IISERTVM))	Dimensional Evolution of Phonon Scattering Mechanism in Bi2Se3 Thin films near room temperatue	5. Emerging Topics
92	Pingjun	Ying	IFW-Dresden	Topology Design of Ni-Based Thermoelectric Modules via COMSOL Simulation	5. Emerging Topics
93	Damian	Lewoc	Institute of Nanotechnology and Materials Engineering, Gdańsk University of Technology	Thermoelectric properties of p-type BaSn0.5(Fe,Co,Ti)0.5O3	6. Other
94	Surbhi	Ramawat		Strong anharmonicity guided weaker temperature-dependent phonon transport in CaSnS3: A chalcogen perovskite showing wavelike phonon tunnelling	6. Other
95	Byungki	Ryu	Korea Electrotechnology Research Institute (keri)	Shape-invariant thermoelectric efficiency	6. Other
96	Min	Zhou	Technical Institute of Physics and Chemistry, Chinese Acad	High thermoelectricity obtained in thermoelectric alloy processed under super gravity	6. Other