

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
28	Zhenhua	Ge	Kunming University of Science And Technology	Highly stabilized thermoelectric performance in natural mixed minerals	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 _{6.4} Te _{2.2} Se _{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 VO _{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	Bariş 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

79	Dariusz	Wieczorek	Agh University of Krakow	Theoretical study of the electronic structure, thermoelectric properties and electronic correlations in pristine and doped GeMnTe2	3. Theory and Modelling
80	Jun	YOSHIDA		Compared Degenerate and Non-Degenerate Approximations with Dimensionless Figure of Merit ZT in Fine-Grained n-type Bi2Te3 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