17:00-19:00	**POSTER SESSION I (Monday)**

Theory & Modelling	
I-P1	**Aminu YUSUF**, S. Ballikaya *Enhancing remote sensor power: Integrating a phase change material-thermoelectric generator system with a heat sink and radiative cooling*
I-P2	**Mei-Jiau HUANG**, H.-J. Hong *A Detailed-Energy-balanced Mixed Mismatch Model*
I-P3	**Supree PINITSOONTORN**, N. Parse, C. Pongkitivanichkul, J. Recatala-Gomez, R. Zhu, K. Yuan, A. Low, K. Hippalgaonkar *Utilizing Machine Learning Models to Predict Thermoelectric ZT Values Based on Three Diverse Dataset Sizes*
I-P4	**Victor POSLIGUA**, K. Landivar, E. R. Remesal, G. Rogl, P. F. Rogl, J. Fdez Sanz, J. J. Plata, A.M. Marquez *Thermoelectric property predictions in skutterudites combining experimental and deep learning approaches*
I-P5	**Shen HAN**, S. Dai, J. Ma, J. Yang, C. Fu, T. Zhu *Strong phonon softening and avoided crossing in aliovalence-doped heavy-band thermoelectrics*
I-P6	**Ruihuan CHENG,** Y. Chen *Strong Phonon Scattering and Suppressed Thermal Transport in Cu_4TiSe_4*
I-P7	**Elena R. REMESAL**, V. Posligua, J. J. Plata, A. M. Márquez *Enhancing Thermoelectric Efficiency in Iron-Nickel Doped Skutterudites: Ab-initio and Machine Learning Approach*
I-P8	**Nikolaos KELAIDIS**, E. Klontzas, A. Kaltzoglou *A theoretical study on the type-I clathrate $(NH_4)_8Sn_{46-x}$ (x = 0 or 2)*
I-P9	**Xue NAN**, Z. Huang, K. Hayashi, H. Konishi, Y. Miyazaki *First-Principles Study for High Thermoelectric Performance Iron-based Half-Heusler Compounds with Thermodynamic and Mechanical Stability*
I-P10	**Bharti AGRAWAL**, H. Sharma, B. Jayachandran, A. Alam, T. Dasgupta *Unravelling the Origin of High Thermoelectric Performance in $Mg_2Si_{0.3}Sn_{0.7}$*
I-P11	**Hidetomo USUI** *Theoretical study on layered thermoelectric materials with axis-dependent conduction polarity*
I-P12	**Surabhi Suresh NAIR**, M. Sajjad, K. Biswas, N. Singh *Metavalent Bonding-Driven Phonon Transport Anomalies in 2D γ-GeX (X = S, Se, Te) Monolayers*
I-P13	**Kurian Elavunkel VIPIN,** Prahallad Padhan *Machine-Learning Guided Prediction of Thermoelectric Properties of Topological Insulators*
I-P14	**Benedick M. ANDRADE,** R. P. Gammag *Improvement in the modeling of the thermoelectric power factor due to induced dimensional effects of carrier mobility*
I-P15	**Parisa ROSHANINEJAD**, K. Habicht, O. M. Løvvik, E. Fertitta, E. Sagvolden, A.B. Kademane, D. Kojda, T. Fennell, A. Turrini, D. L. Quintero Castro *Phonon lifetime studies in thermoelectric materials by combining inelastic neutron scattering and ab-initio calculations*
I-P16	**Wataru SEKIMOTO**, S. Fujii, M. Yoshiya *Impact of dislocation core structures on nanoscale thermal conduction in oxides by perturbed molecular dynamics*
I-P17	**Bhawna SAHNI**, Z. Li, R. Dutt, P. Graziosi, N. Neophytou *Efficient ab initio electronic transport computations in half-Heuslers: the example of NbFeSb*
I-P18	**Naeimeh TAHRIRi**, J. Abouie, D. Vashaee *Thermoelectric Properties of Metallic Spin Glasses*
I-P19	**Pankaj PRIYADARSHI,** N. Neophytou *Advancing the thermoelectric power factor of hybrid solid/liquid porous material systems using advanced simulations*
I-P20	**Jan KOLODZIEJCZYK**, J. A. Majewski *Outstanding Thermoelectric Properties (ZT ≈ 5 – 6) of Functionalized 2D Molybdenum Nitrides (MXenes)*
I-P21	**Ronald Edgar PIRELA LA CRUZ** *Theory of Complete Response of Thermoelectric Modules and Materials*

I-P22	**Espen SAGVOLDEN**, O.M. Løvvik, E. Fertitta, D. Kojda, P. Roshaninejad, K. Habicht, A.B. Kademane, D.L. Quintero Castro *Ab-initio calculations of anharmonicity in thermoelectric materials via the stochastic temperature-dependent effective potential (sTDEP) method*
I-P23	**Sana SALAMI**, S. Pailhès, C. Adessi, V. Giordano, N. Mahonisi, Z. Mthwesi, S. Vignoli, R. Debord, R. Fulcrand, N. Blanchard, A. Every, S.R. Naidoo *Phonon-drag in a graphite channel buried in diamond*

Chemistry & Thermodynamics	
I-P24	**Pu MIAO**, C. Yang, L.L. Xi, J. Yang, T.J. Zhu, C.G. Fu, *Simultaneous optimization of the electrical and thermal transport properties of LuNiSb via aliovalent doping*
I-P25	**Arige HODROJ**, I. Talbi, V. Bouquet, S. Ollivier, L. Joanny, R. Lebullenger, V. Demange, C. Prestipino, R. Bhardwaj, E. Alleno, M. Pasturel *Investigation of protective coatings against oxidation of skutterudites*
I-P26	**Arige HODROJ**, I. Talbi, V. Bouquet, S. Ollivier, R. Lebullenger, V. Demange, C.Prestipino, R. Bhardwaj, E. Alleno, M. Pasturel *Scalability of the magnesiothermic synthesis of skutterudites and their protective coatings against oxidation*
I-P27	**Yuyang ZHANG**, N. L. Okamoto, T. Ichitsubo *Crystal Structures and Thermoelectric Properties of Low-Temperature Phases of the $Cu_{2-\delta}Te$ Compounds*
I-P28	**Helen CHAFFEE**, C. Gerber, C. Porter, R. Orenstein, A. Novick, M. Wróblewska, S. Altshuler, K. Ciesielski, E. Toberer *Analysis of Entropy-Driven Phase Transition in a High-Entropy Thermoelectric System*

Bulk Materials	
I-P29	**Dong-Kil SHIN**, J. S. Kim, K. H. Park, I. H. Kim *Skutterudite: Reproducibility of Thermoelectric Performance of P-type $RyFe_{4-x}Co_xSb_{12}$ Bulky Compacts*
I-P30	**Joon-Chul KWON**, S. H. Choi, G. E. Lee, I. H. Kim *Uniformity and Reproducibility of Thermoelectric Properties of N-type $Bi_2Te_{3-y}Se_y$ Bulky Compacts*
I-P31	**Jong-Ki WON**, S.-I. Jeong, S.-R. Kim, I. H. Kim *Solid-State Synthesis and Thermoelectric Properties of Ge-Doped Tetrahedrites $Cu_{12}Sb_{4-y}Ge_yS_{13}$*
I-P32	**Soo-Sun LEE**, M.-C. Kwon, S.H. Yi, I. H. Kim *Preparation and Thermoelectric Properties of Si-Doped Tetrahedrites $Cu_{12}Sb_{4-y}Si_yS_{13}$*
I-P33	**Song SEOK**, H. J. Kim, T. W. Hong, I. H. Kim *Improved Thermoelectric Performance of $Cu_3Sb_{1-x-y}Sn_xIn_ySe_4$ Permingeatites Double-Doped with Sn and In*
I-P34	**Sang Jun PARK**, B. K. Hong, I. H. Kim *Thermoelectric Properties of $Cu_3Sb_{1-x}Sn_xSe_{4-y}S_y$ Permingeatites Double-Doped with Sn and S*
I-P35	**Yu-Chih TSENG** *An Accelerated Method to Synthesize Doped Magnesium Silicide Stannide Thermoelectric Material with Controllable Dendritic Morphology*
I-P36	**Jun CHENG**, J. Zhang, P. Qiu, X. Shi, L. Chen *Thermoelectric properties of heavily Co-doped β-$FeSi_2$*
I-P37	**Dulyawich PALAPORN**, K. Kurosaki, S. Pinitsoontorn *Effect of sintering temperature on the thermoelectric properties of Ag_2Se fabricated by spark plasma sintering with high compression*
I-P38	**Irene GARCIA**, P. Ying, K. Nielsch *Improving the Thermoelectric Properties of α-MgAgSb through powder Atomic Layer Deposition*
I-P39	**Dejwikom THEPRATTANAKORN**, S. Pinitsoontorn *Cold Sintering process of Ag_2Se: Tailoring Microstructure for Superior Thermoelectric Properties*
I-P40	**Vivek GUPTA**, A. Bugalia, A. Pandey *Improvement in thermoelectric properties of SnTe via band engineering and phonon scattering*
I-P41	**Ziming ZHANG**, Z. Gao, T. Deng, Q. Song, L. Chen, S. Bai *Mechanical properties of $Mg_3(Sb,Bi)_2$-based thermoelectric compounds*
I-P42	**Nouha DRAMÉ**, M. Depriester, G. Leroy, J. C. Carru

	Synthesis and characterization of the thermoelectric properties of $Zn_{1-x}Al_xO$ for application in the Internet of Things
I-P43	**Qianhui LOU**, Z. Gao, Z. Li, S. Han, F. Liu, C. Fu, T. Zhu *Strong defect tolerance in heavy-band thermoelectrics*
I-P44	**Sang Jun PARK**, I. H. Kim *Zn-Hakite: Solid-State Synthesis and Thermoelectric Performance of $Zn_xCu_{12-x}Sb_4Se_{13}$*
I-P45	**Xingyan Dong**, Z. Liu, J. Sui *Understanding of Isoelectronic Alloying Induced Energy Gap Variation Towards Large Enhancement of Thermoelectric Power Factor*
I-P46	**Mito NAGASE**, H.Miyazaki, Y.Nishino, W. Zhou, G. Xing, K. Masuda, Y.Sakuraba *Influence of Iron Doping on the Anomalous Nernst Effect in Heusler-type Co□MnGa Compounds*
I-P47	**Shigeyuki NAKAMURA**, H. Araki, Y.Akaki *Simple and Low-cost Synthesis of Cu_2SnS_3 for Thermoelectric Material*
I-P48	**Seunghyeok LEE**, G. M. Park, J. Y. Kim, H. Kim, S. H. Baek, T. J. Park, J. S. Kim, S. K. Kim Unlocking the Potential of Porous Bi_2Te_3-based Thermoelectrics using Precise Interface Engineering through Atomic Layer Deposition
I-P49	**Keigo ONO**, Y. Goto, C.H. Lee *Thermoelectric properties of 143-Zintl phase compound $RbCd_4As_3$*
I-P50	**Kosuke YAMAZAKI**, H. Nakatsugawa, Y. Okamoto *P-type thermoelectric properties of half-Heusler alloys $TiNi_{1-x}Co_xSn$ ($0 \le x \le 0.15$) at high temperature (≤ 800 K)*
I-P51	**Ajay Kumar VERMA**, S.R. Dhakate, Sumeet Walia, and Bhasker Gahtori *Half-Hesuler Thermoelectric Materials: Exceptional Properties, Challenges, and Future Scope*
I-P52	**Akira NAGAOKA**, K. Nakashima, Y. Hirai, S. Miura, K. Yoshino, K. Nishioka Thermoelectric power generation from high-quality kesterite $(Cu_{1-x}Ag_x)_2ZnSnS_4$ single crystals
I-P53	**Bo-Ping ZHANG**, Z. Shan, H. li, J. Pei *Significant performance enhancement in thermoelectric $Cu_{1.8}S$: cation/anion co-doping and multiphase coexistence effects*
I-P54	**Inder KUMAR**, G. Shankar, P. Pambannan, S. Suwas, R. C. Mallik Thermoelectric Properties of Sn substituted Defective Half Heusler $Nb_{0.83}CoSb$ at Sb site
I-P55	**Ming LIU**, Muchun Guo, Yingda Lai, Haiyan Lyu, Yuke Zhu, Fengkai Guo, Kuai Yu, Xingyan Dong, Zihang Liu, Wei Cai, Matthias Wuttig, Yuan Yu, Jiehe Sui *Doping Strategy in Metavalently Bonded Materials for Advancing Thermoelectric Performance*
I-P56	**Cevriye KOZ**, H. Baker, K. Simpson, R. Tuley *Reliable n-type Bi_2Te_3 production for large-scale applications*
I-P57	**Madi DONOHOE**, L. Menezes, B. Perez, T. Licskai, H. Kleinke *Optimization and Fabrication of Low-Temperature Bismuth Telluride (Bi_2Te_3) Thermoelectric Generators for Water Disinfection Application*
I-P58	**Deepa BHATT**, P. Vaqueiro, A. Powell *Effect of Te substitution and copper vacancies on the thermoelectric performance of BiCuSeO*
I-P59	**Juliusz LESZCZYNSKI**, P. Nieroda, A. Kolezynski *Optimization of the thermoelectric properties of tetrahedrites using various co-doping strategies*
I-P60	**Frantisek MIHOK**, K. Saksl, M. Kruszewski, S. Michalik *Polarity switch and thermoelectric properties of polycrystalline SnSe doped with Bi*
I-P61	**Katsumichi HANZAWA**, K. Yamanaka, S. Kato, T. Doi, Y. Kurokawa, N. Usami, T. Itoh *Fabrication and Performance Evaluation of Thermoelectric Mg_2Si Compounds Synthesized Using Silicon Extracted from waste PV modules*
I-P62	**Ram AMUTHAN**, K. P. Mohamed Jibri, J. Archana, M. Navaneethan, M. Krishnamohan *Enhancement of power factor in ferromagnetic phase of BiCuSeO*
I-P63	**Rajat SAINI**, S. Paul, S. K. Pati, R. C. Mallik *Enhanced thermoelectric performance in a Te-substituted and Cu-deficient Superionic Conductor*
I-P64	**T. S. NIVIN**, V. Vijay, E. Karvaanan, M. Navaneethan, A. Karthigeyan *Realizing the low thermal conductivity of SnS by utilizing the phonon liquid-like behavior of Cu_2Se*
I-P65	**Gouri SANKAR**, S. Perumal, G. Arunachalam *Thermoelectric properties of aliovalent Zn doped $Cu_{1.8}S$ polycrystalline materials*
I-P66	**Paweł NIERODA**, J. Leszczyński, M. J. Kruszewski, D. Kozień, A. Koleżyński *Improving the thermoelectric properties of Cu_2Se by adding B_4C inclusions and obtaining the material using the "SPS melting" method*
I-P67	**Norbert NEMES**, JM G. Amores, N. Biskup, J. Beltran, F S. Sánchez, H. L. Andersen, J. Alonso, JL M. Peña, OJ Durá, MT F. Díaz, J. Gainza *Composition, structure and phonon softening in high entropy alloys based on PbTe thermoelectrics*
I-P68	**Yuting QIU**, L.-D. Zhao, Y. Jin, D. Ren *Electrical and Thermal Transport Properties of GeTe-Pb-$CuSbSe_2$*

I-P69	**Hironori OHSHIMA**, Y. Takashima, Y. Goto, C. H. Lee *Synthesis of α-MgAgSb using melting method*
I-P70	H. Kunioka, **Hiroya OISHI**, D. Shiojiri, N. Hirayama, Y. Imai and T. Iida *Investigation of the Group 13 elemental doping effect on the environmentally benign thermoelectric material α-$SrSi_2$*
I-P71	**Dáša DRENČAKOVÁ**, M. Achimovičová, M. Baláž, J. Navrátil, V. Kucek, V. Puchý, J. Briančin *Characterization and transport properties of mechanochemically synthesized semiconductor CuAgSe*
I-P72	**Jiankang LI**, R. Chetty, T. Mori *Enhancing the thermoelectric performance of Mg_3Sb_2-based materials via Ag doping*
I-P73	**Ji Hee PI**, C. O. Park, J. Y. Hwang, K. H. Lee *Thermoelectric Properties of Oxide Material: single crystal of $K_{0.8}Ti_{1.73}Li_{0.27}O_4$ (KTLO) with layered structure*
I-P74	**Christophe CANDOLFI**, A. Léon, K. Pryga, B. Wiendlocha, S. E. Oualid, B. Lenoir Sn in Bi_2Te_2Se: Resonant or not resonant?
I-P75	**Amin BAHRAMI**, S. He, C. Jung, R. He, Z. Ren, S. Zhang, K. Nielsch *Precision interface engineering of CuNi alloys by powder ALD toward better thermoelectric performance*
I-P76	**Jan ZICH**, A. Sojka, J. Navrátil, T. Plecháček, P. Ruleová, K. Knížek, Č. Drašar *General review of polycrystalline Bi_2O_2Se preparation*
I-P77	**Zhicheng HUANG**, K. Hayashi, X. Nan, H. Konishi, and Y. Miyazaki *Enhancement of Thermoelectric Properties in p-type Iron-based Half-Heusler VFeSb Alloys via Titanium Alloying*
I-P78	**Jiří NAVRÁTIL**, J. Zich, P. Ruleová, P. Levinský, Jan Mistrík, M. Míšek, S. Kamba, Č. Drašar *Transport and optical properties of the quasi 2D Bi_2O_2Se single crystals*
I-P79	**Vivek KUMAR**, T. Maiti *$Ca_3Co_4O_9$-based high entropy oxide for high-temperature thermoelectric application*
I-P80	**Mun Hwi LEE**, G. H. Lee, J. Y. Cho, Y. S. Lim, W. H. Nam *Enhanced Thermoelectric Properties of $CoSb_3$ Skutterudites by Incorporating Ag Nanoparticles*
I-P81	**Ilhame ASSAHSAHI**, B. Popescu, R. El Bouyadi, A. Galatanu *Thermoelectric properties of n-type $Mg_2Si_{0.4}Sn_{0.6}$ solid solutions co-doped with Y-Sb and V-Sb*
I-P82	**Chandrakant PRAJAPATI**, M. Saravanan, N. K. Upadhyay, R. Shyam, S. R. Dhakate *Synthesis and thermoelectric properties of (Nb, Ge) Doped Higher manganese Silicide*
I-P83	**Sahiba BANO**, T. Aizawa, S. Shaikh, and T. Mori *Significant Reduction of Thermal Conductivity and Enhancing Thermoelectric Performance in $CrSb_2$ via Fe-Bi Co-Alloying*
I-P84	**Michał SZOT**, J. Korczak, W. Wołkanowicz, S. Chusnutdinow, W. Zaleszczyk, L. Kowalczyk, R. Minikayev, M. Aleszkiewicz, G. Karczewski, T. Wojtowicz, T. Story *Single crystals of SnSe grown from the vapor for thermoelectricity*
I-P85	**Wenhao ZHANG**, J.-F. Halet, T. Mori *First Principles Tight-binding Analysis of Electronic Structure of n-type Mg_3Sb_2 and Band Engineering Strategies*
I-P86	S. Acharya, **Woochul KIM** *Improving the thermoelectric performance of n-Type diamond-like $AgInSe_2$ through nanostructure inclusions*
I-P87	**Alberto CASTELLERO**, A. Difalco, M. Baricco, C. Fanciulli, A. Ferrario, S. Boldrini *Production of half-Heusler alloys for a thermoelectric generator prototype*
I-P88	**Kushal MEHROTRA**, A. Novitskii, T. Mori *Relationship Between Chemical Bonding Strength, Thermoelectric Performance, and Mechanical Properties Controlled By Anion Site in $YbMg_2(Bi,Sb)_2$ Zintl Phase*
I-P89	**Maria WRÓBLEWSKA**, K. Ciesielski, E. Toberer *From half-Heusler to rocksalt: discovery and thermoelectric properties of a novel solid solution in $ErNi_xSb$-ErSb*
I-P90	**Shu-Qing LI** *Glassy ZIF-62 Compositing Induces Ultralow Lattice Thermal Conductivity in GeTe*
I-P91	**Manisha YADAV**, V. Singh *Zn doped SnSe material for potential thermoelectric application*
I-P92	**Peerapong YAMCHUMPORN**, K. Boonin, S. Jumpathip, T. Sareein, K. Singsoog, T. Seetawan, J. Kaewkhao *The investigation in thermoelectric properties of $30Li_2O$: $3Bi_2O_3$: $(60-X)B_2O_3$: $7CuO$: $(X)TeO_2$ oxide glass*
I-P93	**Nishath Jamal BEGUM**, P. Rajasekar

	Thermoelectric Properties of Higher Manganese Silicide Synthesized by Molten Salt Shielded Synthesis Method
I-P94	**Haiqi LI**, C. Chen, X. Wang, D. Shen, S. Duan, W. Wang, K. Liu, Q. Zhang, Y. Chen *Realizing High Average zT in GeTe through Band Modulation and Suppressing Ge Vacancies*
I-P95	**Alessandro DIFALCO**, M. Palumbo, S. Boldrini, A. Ferrario, C. Fanciulli, O. Rouleau, B. Villeroy, G. Barrera, P.M. Tiberto, P. Allia, M. Baricco, A. Castellero, and E. Alleno *The role of vacancies on structural, transport, magnetic and half-metallic properties of Co_2ZrSn Heusler alloy*
I-P96	S. Majumder, P. Singha, C. V. Devan, B. Deb, **Vinayak KAMBLE** *Thermoelectric Transport Studies on GeTe, SnSe based alloys Mitigating Bipolar Conduction*
I-P97	**Elise DIRICAN**, A. Moll, C. Barreteau, M. H. Berger, F. Gaslain, E. Alleno *Solid State Synthesis and Thermoelectric Characterization of YbCuSb*
I-P98	**Molly MCVEA**, C. B. Nielsen, O. Fenwick, P. Á. Szilágyi *Metal-Organic Frameworks as Thermoelectric Materials: Design, Synthesis and Assessment*
I-P99	**Yuichi ASHIDA**, S. Fujieda, S. Ichikawa, Y. Ohishi, H. Muta *Thermoelectric properties of nanostructured bulk Si with heavily doped P*
I-P100	**Sagarika SHARMA**, T. Parashchuk, O. Cherniushok, J. Tobola, K. T. Wojciechowski *Effect of cation substitution on the thermoelectric properties of Cu-based argyrodites*
I-P101	**Remigiusz OSOWSKI**, O. Cherniushok, T. Parashchuk, J. Tobola, K. T. Wojciechowski *Effect of anion substitution on the structural and thermoelectric properties of Cu-based argyrodites*
I-P102	**Rizwan AKRAM**, J. A. Khan, J. S. Khan *Synthesis and thermoelectric properties of Barium doped $Ca_3Co_4O_9$*
I-P103	**Sung-Jin JUNG**, Y. Jung, H. Y. Kim, I. Lee, K. Kim, M. Kim, H. Wee, Y. Koh *Exploring the relationship between particle size and process parameters of hot extrusion on thermoelectric property of n-type Bi_2Te_3-based alloys*
I-P104	**Swati SWATI,** J. Prakash *Structural aspects of the Ag-substituted $BaCu_2Se_2$ phases and their thermoelectric (TE) properties*
I-P105	**Varinder PAL**, M. Paliwal, C. S. Tiwary *Directional solidified Bi_2Te_3-Ga_2Te_3 thermoelectric multiphase alloy*

Nanomaterials	
I-P106	**Younes Bourenane CHERIF**, Z. Mekhalif, S. Abdous, L. Nedjar, A. Mekki *Synergistic Enhancement of Thermoelectric Performance through One-Dimensional Hybrid Nanocomposites: Wrapped Nickel Oxide-Decorated Multi-Walled Carbon Nanotubes with Polypyrrole*
I-P107	**Da-hye KIM**, S. Shin, S. J. Jeon, S. Han *High-performance P-type hybrid thermoelectric fibers using co-sputtering for thermoelectric textiles*
I-P108	**Yong Jin JEONG**, I. H. Kim *Hydrothermal Synthesis and Characterization of Copper Selenides for Photothermal-Thermoelectric Applications: Investigating Material Properties and Synthesis Conditions*
I-P109	**Nouredine OUELDNA**, A. Portavoce, K. Hoummada *Crystalline Mg-Ag-Sb thermoelectric thin films for energy harvesting applications*
I-P110	**In Ho KIM**, Y. J. Jeong *Solution-Based Doping and Drying Strategies for Improving the Thermoelectric Performance of Tellurium Nano-needle film via Green Hydrothermal synthesis*
I-P111	**Jose María DOMÍNGUEZ-VÁZQUEZ**, O. Caballero-Calero, A. Cebollada, A. Conca, M. Martín-González *Thermoelectric efficiency of sputtered epitaxial Fe_2VAl (100) and (110) thin films*
I-P112	**Yuan-Meng LIU**, X. L. Shi, Q. Liu, Z. G. Chen *Boosting Thermoelectric Performance and Stability of SWCNT-Based Flexible Films and Devices through Rational Triple Treatments*
I-P113	**Ichiro IMAE**, M. Morimoto, K. Imato, Y. Ooyama, D. Saito, R. Maeda, Y. Goto *Modulating Thermoelectric Properties of Single-Walled Carbon Nanotubes through Chemical Doping Methods*
I-P114	**Dominique MATTLAT**, R. Bueno Villoro, C. Jung, S. Zhang, R. He, R. Hatami Naderloo, D. Zavanelli, G. J. Snyder, C. Scheu *Effective doping of InSb at the grain boundaries in $Nb_{1-x}Ti_xFeSb$ based Half-Heusler thermoelectrics for high electrical conductivity and Seebeck coefficient*
I-P115	**Charlotte POTERIE**, R. Burcea, H. Bouteiller, T. Cabioch, J.F. Barbot, P. Eklund, A. Le Febvrier *Effect of implantation-induced defects on the transport properties of Scandium Nitride (ScN) thin films*
I-P116	**Farjana J. SONIA**, N. B. Pulumati, K. Nielsch and H. Reith

	Electrodeposited Near-Room-Temperature Micro-Thermoelectric Generators
I-P117	**Katsuaki HASHIKUNI**, R. Inoue, H. Anno *Stable Carrier Control of Carbon Nanotubes Using Electric Double Layer Electrets*
I-P118	**Surabhi SURESH**, C. Hettiarachchige, G. Das, N. Singh *Ag Nanowires Decorated with Se Nanoparticles for Enhanced Thermoelectric Properties*
I-P119	**Chul Oh PARK**, J. H. Pi, M. Y. Kim, K. H. Lee *Enhanced thermoelectric transport properties of Al-doped Zinc Oxide via grain morphology control*
I-P120	**Niraj SINGH**, V. Hjort, D. Gambino, A. l. Febvrier, B. Alling and P. Eklund *Experimental and DFT study of doped CrN thin films for thermoelectric applications*
I-P121	**Tetiana TAVRINA**, S. Linden *Two-dimensional crystals of MoS_2 and $MoSe_2$ for thermoelectric applications*
I-P122	**Swathi Krishna SUBHASH**, H. Hillebrecht, P. Woias, U. Pelz *Tuning the thermoelectric properties of Bi_2Te_3 by alloying and nanostructuring via high energy ball-milling*
I-P123	**Tommy HOFMANN**, H. Haseeb, D. Kojda, N. Gostkowska-Lekner, K. Habicht *Charge Transport in Mesoporous Silicon: Origin of the Meyer-Neldel Rule*
I-P124	**Alex Rodríguez-Iglesias**, I. Martín, F. Pérez, J. Santander, F. X. Álvarez, A. F. Lopeandia, L. Fonseca, L. Abad, M. Salleras, M. Fernández *In search of the thermoelectric enhancement of ultra-thin Si films: a block copolymer driven nanostructuration approach*
I-P125	**Suman ABBAS**, B. Jarwal, L. C. Chen and K. H. Chen *Exploring the Effect of Molybdenum (Mo) doping on Thermoelectric Properties of Cubic Ge-Sb-Te Thin Film*
I-P126	**Alapati J S A Veeranjaneya VARA PRASAD**, K. Jayabal, P. Veluswamy *Fabrication of thin film thermoelectric generator using Magnetron Sputtering*
I-P127	**Ahmad GHARLEGHI**, C. J. Liu *Enhanced zT of Hydrothermally Synthesized Cobalt Skutterudites by Partially Indium Filling through a Solid-Vapor Reaction Process*
I-P128	**Khalid MAHMOOD**, A. Ali, N. A. Khan *Optimizing Thermoelectric Efficiency: Hydrothermal Synthesis of Mn-Cd Co-doped SnO□ Nanoparticles*
I-P129	**Shunya SAKANE**, A. Ayukawa, N. Kiridoshi, Y. Yamashita, H. Udono *Thermoelectric performance of epitaxially grown Mg_3Sb_2 thin films on sapphire substrates*
I-P130	**Oskars BITMETS**, K. Pudzs, B. Hamawandi, M. S. Toprak *Tailoring Thermoelectric Properties: Bi_2Te_3 and Sb_2Te_3 Nanoparticles in a PEDOT:PSS:PEO Composite*
I-P131	**Cristiana Antonella MATROPIERRO**, G. Calabrese, R. Cecchini, G. Lorusso, D. Gentili, V. Morandi, F. Liscio *Electrochemical Exfoliation of MoS_2 for Thermoelectric Applications: A Novel Approach to Near-Room-Temperature Energy Conversion*
I-P132	**Seenidurai ATHITHYA**, M. Navaneethan, E. Senthil Kumar *Probing an enhaced thermoelectric by tunning multiscale phonon scattering and band engineering in ternary Al doped CuAgSe-based materials*
I-P133	**Chandrsekaran ARCHANA**, R. Abinaya, J. Archana, M. Navaneethan, S. Harish *Realization of low potential barrier in MoS_2/rGO heterojunction with enhanced electrical conductivity for thin film thermoelectric applications*
I-P134	**Wei-Han TSAI**, C. L. Chen, R. K. Vankayala, Y. H. Lo, T. H. Wang, S. Y. Huang, Y. Y. Chen *Enhancement of ZT in $Bi_{0.5}Sb_{1.5}Te_3$ Thin Film through Lattice Orientation Management*
I-P135	**Rizwan AKRAM**, K. Ahsan, J. S. Khan *Impact of Polypyrrole on thermoelectric properties of Bismuth Telluride based composites*
I-P136	**Joseph MOREAU**, F. Tournus, O. Boisron, S. Pailhès *Toward embedded magnetic nano-clusters for thermoelectricity*

17:00-19:00	**POSTER SESSION II (Tuesday)**

	Theory & Modelling
II-P1	**Kacper PRYGA**, B. Wiendlocha *Influence of electron resonant scattering on thermoelectric performance of Ni_xAu_{1-x}*
II-P2	**Warawut SA-ARDSIN**, S. Pantian *Elliptical Pores and Thermoelectric Thermal Conductivity: A Maxwell-Eucken Model Reveals Shape Dependence*
II-P3	**Prashant Kumar SAHU**, H. Kamila, J. de Boor, E. Mueller, T. Dasgupta *Sequential approach to multiband modelling of thermoelectric materials*
II-P4	**Iwan Ruiz Cózar**, A. Massaguer, E. Massaguer, A. Cabot, T. Pujol, J.J. Suñol *Analysis to identify the influence of the variables of an automotive thermoelectric generator on the power generation*
II-P5	**Gökçe VARDAR**, B. O. Gürses, G. Gürlek *Energy and Exergy Analysis of a Thermoelectric Generator for Subcutaneous Applications*
II-P6	**Lankun WANG**, J. Sui, Z. Liu *Investigating the Phonon Transport Mechanisms in Aliovalent-doped TiCoSb Half-Heusler Thermoelectrics*
II-P7	**Surbhi RAMAWAT,** A. Dixit *β-$SrZrS_3$: A superior intermediate temperature thermoelectric through complex band geometry and ultralow lattice thermal conductivity*
II-P8	**Sumit KUKRETI,** A. Dixit *Strain-engineered thermophysical properties ranging from band-insulating to topological insulating phases in β-antimonene*
II-P9	**Sophie K. GUILLEMOT**, A. Suwardi, N. Kaltsoyannis, J.M. Skelton *Impact of crystal structure on the lattice thermal conductivity of the IV-VI chalcogenides*
II-P10	**Dariusz WIECZOREK**, Bartłomiej Wiendlocha *Theoretical studies of the electronic structure, transport properties and doping in InTe*
II-P11	**Gabriel KUDEROWICZ**, B. Wiendlocha *Study of lattice dynamics and electron-phonon interaction in SnTe:In and PbTe:Tl*
II-P12	**Wiebke LIEBSCHER**, A. G. Rösch, Md. M. Mallick, Q. Zhang, M. I. Khan, L. Franke, M. Kemerink, U.Lemmer *Exploring transport mechanisms of printed bismuth telluride based nanocomposite materials with COMSOL*
II-P13	**Minsu HEO,** H. S. Kim *Evaluation of thermoelectric parameters in In and Sr co-doped SnTe via the progressed single parabolic band model examination method*
II-P14	**Alveena KHAN**, J. Flitcroft, J. Skelton *$ATiO_3$ (A=Ca, Sr or Ba) oxide perovskites for high-performance thermoelectrics*
II-P15	**Joseph M. FLITCROFT**, A. Althubiani, J. M. Skelton *Bismuth Oxychacogenides for Thermoeletric Material Applications*

	New Materials
II-P16	**Martin LEPROULT**, T. Barbier, E. Guilmeau *Harnessing the Lone Pair Effect for Enhanced Thermoelectric Performance in Chalcogenides*
II-P17	**Dongyi SHEN**, R. Cheng, C. Chen, Y. Chen *Enhanced thermoelectric performance of p-type $Bi_2Si_2Te_6$ enabled via synergistically optimizing carrier concentration and suppressing bipolar effect*
II-P18	**Koki NAKASHIMA**, A. Nagaoka, Y. Hirai, K. Nishioka *Controlling the conduction type in $ZnSnAs_2$ chalcopyrite thermoelectric materials with high power factor*
II-P19	**Joris More-CHEVALIERA**, U. D. Wdowik, Jiří Martan, S. Cichoň, Petr Levinský, D. Legut, E. de Prado, J. Pokorný, J. Bulíř, M. Novotný, L I. Gregora, L. Fekete, L Volfová, J. Lančok

	Thermoelectric properties of ScN layers and doped ScN layers with Nb
II-P20	**Savvas HADJIPANTELI**, Th. Krasia-Christoforou, Th. Kyratsi *Thermoelectric performance of PEDOT:PSS composites with $Bi_{0.4}Sb_{1.6}Te_3$*
II-P21	**Taichi NAKAMURA**, M. Miyata, D. Takeda, T. Munemoto, A. Matoba, T. Toyoda and M. Koyano *Electron and phonon transport properties of Ag-P composite thermoelectric materials showing low lattice thermal conductivity*
II-P22	**Uzma HIRA**, J.-W.G. Boss, F. Sher *Substantially low thermal conductivity and high thermoelectric figure-of-merit in Bi-doped Sr_2CoRuO_6 double perovskites*
II-P23	**Xuezhen DU**, B. Lin, H. Liu *Ultralow thermal conductivity of crystalline organic-inorganic 2D halid perovskites*
II-P24	**Kosuke Watanabe**, H. Kojima, K. K. Raut, C. Bourgès, T. Mori, K. Miyazaki *Development of Printed Thermoelectric Films Using $CoSb_3$-based Materials*
II-P25	**Manoj SINGH**, A. K. Gautam, M. Faraz, N. Khare *Freestanding, Polyaniline/WS_2/CNT Nanocomposite Flexible Film for Thermoelectric Application*
II-P26	**Shun-ichiro ITO**, K. Kanahashi, H. Tanaka, B. Chen, H. Ohta, T. Takenobu *Temperature Dependence of Thermoelectric Properties in Electrochemically-Doped Conducting Polymer PBTTT*
II-P27	**Kaspars PUDZS**, B. Hamawandi, O. Bitmets, A. Maurucaite, R. Grzibovskis, M. S. Toprak *Thermoelectric Hybrid Systems Utilizing Low Molecular Weight Compounds*
II-P28	**Rajan BISWAS**, J. W. G. Bos *Ionic Thermoelectric Properties of NASICON based Fast Ion Conductors*
II-P29	**Kristina ASHURBEKOVA**, M. Naumochkin, H. Reith, K. Nielsch, M. Knez *Organic-inorganic hybrid thermoelectric materials through vapor phase infiltration*
II-P30	**Md Mahmudur RAHMAN**, M. Solis-de la Fuente, L. Márquez-García, J. García-Cañadas *Remarkable power factor improvement in a nanostructured and porous thermoelectric material functionalised with viologen molecules*
II-P31	**Damian LEWOC**, T. Miruszewski, *Pyrochlore thermoelectric materials based on composite composition*
II-P32	**Sanjukta MUKHERJEE**, T. Maiti *Thermoelectric Properties of $BaTiS_3$ Chalcogenide perovskite exhibiting ultra-low thermal conductivity*
II-P33	**Martyna Maria CZUDEC**, T. Miruszewski, D. Jaworski, M. Gazda *Thermoelectric properties of multicomponent oxides*
II-P34	**Aichi YAMASHITA**, K. Prateek, P. Rani, A. Seshita, Y. Mizuguchi *Development of cubic structural high-entropy-type thermoelectric materials*
II-P35	**Hitoshi KOHRI** *Preparation and Thermoelectric Properties of Pseudo Binary Compounds of Molybdenum Disilicide and Tungsten Disilicide*
II-P36	**Trivedi VIKRANT**, N. Tsujii, T. Mori *The enhancement of the thermoelectric properties of nanostructured Sm-doped $SrSi_2$ low-cost p-type thermoelectric materials for waste-heat recovery applications*
II-P37	**Michael HALL**, P. Bhatnagar, R. C. Mudavath, A. Mejia-Pena, D. Vashaee *Engineering Spin-Driven Thermoelectricity in Manganese Mono-Chalcogenides*
II-P38	**Adnan ALI**, K. Mahmood, M. Yasir Ali, M. Shujaat Hussain *High power factor in room temperature thermoelectric range for thermally evaporated GeO_2 thin films by post growth annealing process*
II-P39	**Kejia LIU**, C. Chen, H. Li, Y. Chen *Advancing thermoelectric performance in NaCdSb-based Zintl phase via the synergistic effect of Na deficiency and dynamic doping*
II-P40	**Adrianna LIS**, K. Zazakowny, K. Wojciechowski *Thermoelectric polymer composites based on PEDOT:PSS with added $Cu_{12+x}Sb_4S_{13}$ nanoparticles*
II-P41	**Kimberly BEERS**, K. Najafi, A. Ravi, Q. Zhang, B. Chen *Investigation of Co-Evaporated Bi_2Te_3 Thin Films on HD-4110 Polyimide for Thermoelectric Micro-Generators*
II-P42	**M.S. HEMALATHA**, P. Rajasekar *Synthesis and Thermoelectric performance of Co-doped β-$FeSi_2$ /Polyaniline composites*
II-P43	**Marcello FRANZINI**, S. Galliano, M. Bonomo, N. Barbero, K. Sasitharan, G.H. Morritt, M. Borri, G. Filiddani, M. Freitag, A. Reale, C. Barolo *Novel Cu-polymers for low-temperature thermal energy harvesting*
II-P44	**Silvia MILITA**, G. Calabrese, C. Pipitone, A. Martorana, F. Giannici A. Guagliardi, N. Masciocchi *1-D pseudoperovskite thin films: structure, morphology and long term stability*
II-P45	**Karolina ZAZAKOWNY**, A. Lis, K. Wolski, S. Zapotoczny, K. Wojciechowski *Flexible Composite Materials Based on PEDOT:PSS with Inorganic Additives*

II-P46	**Kaja BILIŃSKA,** M. J. Winiarski *Machine Learning for half-Heusler Phases: From Lattice Parameter to Thermoelectric Performance*
II-P47	S. Gogoc, K. Wojciechowski, **Przemysław DATA** *Flexible thermoelectric pellets based on poly(3-hexylthiophene) with dodecylbenzenesulphonic acid*

Measurements	
II-P48	**Ruian LIU**, M. Miyata, M. Koyano *Investigation of lattice anharmonicity in Se-doped Bi_2Te_3 based on temperature-dependent Raman spectroscopy*
II-P49	**Jeongsoo KANG**, S. Seong, Y. S. Kwon, B. I. Min *Synchrotron-radiation Spectroscopy Study of RTe_2 and RTe_3 Charge Density Wave Compounds (R=Pr, Er)*
II-P50	**Anustoop DAS**, K. Pal, P. Acharyya, S. Das, K. Maji, K. Biswas *Strong Antibonding p-d States Lead to Intrinsically Low Thermal Conductivity in a Cubic Metal Halide $CuBiI_4$*
II-P51	**Karl-Heinz GRESSLEHNER**, M. Krenn, P. Kerepesi, L. Gupfinger, Ch. Beisteiner, B. Plank, B. Sonderegger *Non-Destructive Inspection of Thermoelectric Modules by Scanning Acoustic Microscopy*
II-P52	**Maksim NAUMOCHKIN**, K. Nielsch, H. Reith *Post annealing and doping with Sb and Cu for precise and wide range tuning of thermoelectric properties of physically vapor deposited Sb_2Te_3 thin films by*
II-P53	Tony **MATHEW**, V. Vijay, R. Santhosh, J. Archana, M. Navaneethan *Investigation of thermoelectric properties of $Ag_{2-x}Al_xSe$ for waste heat recovery*
II-P54	**Satoaki IKEUCHI** *Development of instrument to evaluate Peltier performance of thermoelectric modules*
II-P55	**Kazuo NAGASE**, A. Yamamoto, C.-H. Lee *Accelerated deterioration test of thermoelectric modules under current load*
II-P56	**Kenjiro OKAWA**, Y. Amagai, N. Sakamoto, N.-H. Kaneko *Comparison of measurement techniques for investigating thermoelectric conversion efficiency from a radiative heat loss perspective*
II-P57	**Anil PANDYA**, D. Anadkat, A. Jaiswal, A. V. Sanchela *Improved thermoelectric power factor by using different grades graphite paint on paper*
II-P58	S. Shin, D. Kim, **Seongjae JEON**, S. Han *Thermal fatigue and shear tests for bond joints of thermoelectric devices*
II-P59	**Takahiro BABA**, T. Baba, T. Mori *Determination of thermal diffusivity of thin film by Fourier transform reflectance method under convenient front-heat front-detect configuration*
II-P60	**Chloé ANDRADE**, S. Hawila, A. Abdallah, J-L. Rukemampunzi, A. Mesbah, N. Guillou, F. Perret, S. Wuttke, T. Niehaus, R. Debord, O. Boisron, S. Pailhès and A. Demessence *A p-type Semi-Conducting Copper(I)-1,3-Benzenedithiolate 2D Coordination Polymer with High Seebeck Coefficient*
II-P61	**Maja SAJDAK**, J. Tobola, T. Parashchuk, M. Krzywiecki, P. Powroźnik, K. T. Wojciechowski *Probing hydrogen content in steel using the thermoelectric effect*

Devices	
II-P62	**Devang ANADKAT**, A. Pandya, S. Dungani, C. Badampudi, A. Jaiswal, N. Patel, A. V. Sanchela *The cost-effective approach to fabricate oxide-based bulk thermoelectric generator for low-grade waste heat harvesting*
II-P63	**Devi Bala Saraswathi SETHURAMAN**, C.-J. Liu *Enhanced Thermoelectric Performance of $Ni_{1-x}Cr_x$: Energy-Efficient Synthesis and TEG Utilizing $Ni_{0.90}Cr_{0.10}$ (p-leg) and Nitric Acid-Treated $Cu_{0.60}Ni_{0.40}$/PEDOT Composites (n-leg)*
II-P64	**Yuichi HIRAI**, A. Nagaoka, K. Nakashima, Y. Ota, K. Nishioka Development of Bi_2Te_3-based thermoelectric device by compositional optimization
II-P65	**Guillaume SAVELLI**, P. Faucherand Chips thermal management by micro-thermoelectric sensors
II-P66	**Sushantika CHOUDHARY**, B. Agrawal, S. Desale, A. Singh, T. Dasgupta

	Dopant Optimization for High Efficiency $Mg_3Sb_{0.6}Bi_{1.4}$ Single Leg Thermoelectric Device
II-P67	**Shengduo XU**, M. Ibanez 3D printing for miniature thermoelectric cooler
II-P68	R. Mohanraman, R. Lydiard, **Richard S. TULEY** *Device substrates: high performance with low thermal conductivity*
II-P69	**Matteo D'ANGELO**, Y. Kim, H. Han, N. Lecis, J. S. Son *Bi_2Te_3-based Thermoelectric Films Deposited by Aerosol Jet Printing: Chemically Synthesized and Ball Milling-derived Inks Compared*
II-P70	**Zeyu LIU**, R. Huang, L. Chu, L. Shen *The general strategy for designing and selecting of thermoelectric cooler based on surrogate model*
II-P71	**Manikandan SUBRAMANI**, S. Mohandos, P. Veluswamy *Synergizing and Comparison of [1,3]oxazine Molecule for Efficient Organic Thermoelectric Energy Harvesting*
II-P72	**Tomohiro KUSUMOTO**, Y. Kurokawa, N. Usami, T. Itoh *Fabrication of tilted Mg_2Si/Ni multilayer composite thermoelectric elements using PLA molds and power generation evaluation*
II-P73	**Yuto MATSUZAKI**, R. Tadenuma, Y. Aoshima, M. Yamamoto, L. Takai, Y. Kawano, K. Li *Hybrid integration of high Seebeck coefficient materials with carbon nanotube film photo-thermoelectric broadband image sensors*
II-P74	**Nithin Bharadwaj PULUMATI**, A. Dutt, D. Berger, N. Sherkat, U. Pelz, P. Woias, K. Nielsch, H. Reith *Height Optimized Micro Thermoelectric Devices*
II-P75	**Qi ZHANG**, H. Li, R. Koshimizu, A. Sano, N. Takahashi, Y. Kawano, K. Li *Microwave-based non-destructive monitoring by photo-thermoelectric sensors with carbon nanotube films beyond the diffraction limit*
II-P76	**Leo TAKAI**, M. Yamamoto, D. Sakai, Y. Matsuzaki, Y. Kawano, K. Li *All printable carbon nanotube film type photo-thermoelectric broadband 2D camera sheets*
II-P77	**Chongyang ZENG**, E. Bilotti *New architectures for heat sink less organic and inorganic thin film thermoelectric (TE) devices inspired by Kirigami*
II-P78	**Daiki SHIKICHI**, R. Ota, R. Odawara, M. Kubota, Y. Kawano, K. Li *Multi-wavelength computer vision imaging for 3D composite materials structure restoration with a photo-thermoelectric detector*
II-P79	**Ryoga ODAWARA**, M. Yamamoto, N. Takahashi, Y. Kawano, K. Li *Faster operation and integration of photo-thermoelectric sensor in carbon nanotube film camera*
II-P80	**Miki KUBOTA**, Y. Kinoshita, Y. Matsuzaki, M. Yamamoto, L. Takai, Y. Kawano, K. Li *Ultrabroadband photo-thermoelectric imager for in-line multi-wavelength pharma inspection in a non-destructive manner*
II-P81	**Santosh KUMAR**, M. Battabyal, D. K. Satapathy *Flexible Printed Thermoelectric Films for Energy Harvesting Applications*
II-P82	**Jongho PARK**, J. Jang, B. Ryu, S.D. Park *Fabricating Durable Silicide-Telluride Thermoelectric Modules through Chemically-Thermally-Designed Joining Process for Multiple Usability*
II-P83	**Şeyma ÖZKAN**, M. Şener, G. Gürlek, B.O. Gürses, Y. Seki *Investigation of Thermoelectric Properties of Layered 3D Modules from PEDOT:PSS-Based Inks*
II-P84	**Soufiane EL OUALID**, I.Kogut, M.Benyahia, E. Geczi, U.Kruck, F. Kosior, P. Masschelein, C. Candolfi, A.Dauscher, J. D. Koenig, A. Jacquot, T. Caillat, E. Alleno, B. Lenoir *Enhancing Power Density in Thermoelectric Generators: A Novel Approach Using Thick Metallic Layers Layers*
II-P85	**Fushan LI**, S. Li, Z. Liu, J. Sui *High performance Hf-free Half-Heusler power generation via material optimization and barrier design*
II-P86	**Babu JAYACHANDRAN**, R. Chetty, and T. Mori *Development of p-type Counterparts for the Medium Temperature $Mg_3Sb_{1.5}Bi_{0.5}$ Thermoelectric Devices*
II-P87	**Aamir M. FASIH**, R. Chetty, B. Jayachandran, T. Mori *Contact material optimization for the $Mg_3(Sb,Bi)_2$-based thermoelectric compounds*
II-P88	S. Masoumi, **Amir PAKDEL** *Flexible thermoelectric generators fabricated by spray printing of PEDOT:PSS/$Bi_{0.5}Sb_{1.5}Te_3$ composites*
II-P89	**Saba SEPAHBAN SHAHGOLI**, M. Ozen, U. Aydemir *Improving the efficiency of thermoelectric cooler modules prior to manufacturing using COMSOL Multiphysics*
II-P90	**Tarek MAKANSI**, E. T. Enikov

	Novel Super-Efficient Thermoelectric Device where a Junction Alternates between Hot and Cold by Storing Charge
II-P91	**Marco S. NATALI**, A. Ferrario, A. Miozzo, S. Barison , L. Armelao, S. Boldrini *Semi-automated assembly of thermoelectric couples for medium to high temperature thermoelectric devices*
II-P92	**Leonard FRANKE**, M. Mallick, A. G. Rösch, M. I. Khan, Q. Zhang, I. Brunetti, U. Lemmer *Advancing Scalable Manufacturing of printed BiTe Thermoelectric Modules via Screen Printing on flexible Printed Circuit Boards*
II-P93	S. Majumder, G. Bolegave, P. Singha**, Vinayak KAMBLE** *Thermoelectric Energy Harvesting using Photthermoelectric Response Of Bismuth Selenide Thin Films*
II-P94	**Michał MUSIAŁ**, M. Borcuch, K. Wojciechowski *The influence of structural parametes of thermoelectric modules on the efficiency of thermoelectric generator*
II-P95	**Michihiro OHTA**, P. Sauerschnig, T. Ishida, A. Yamamoto *Highly efficient and stable thermoelectric modules based on nanostructured PbTe: from materials development to module architecturing*
II-P96	**Anilkumar BOHRA**, A. Singh, S. Bhattacharya, R. Bhatt, P.G. Abichandani, S.K. Sahu, D.K. Aswal *Bismuth Telluride-Based TEG Integration with DC-DC Voltage Booster Circuit: Advancing Towards Practical Applications*

Thermoelectric Systems and Applications	
II-P97	**Abdelakader ALLEG**, A. Benamara, N. Moulay, M. Berrahal, A. Zoukel, O. Mansour, D. Bensaid, Y. Azzaz, Y. Al-Douri *Theoretical investigations of electronic, thermodynamic and thermoelectric properties of filled skutterudites $ThFe_4P_{12}$ and $CeFe_4P_{12}$ using DFT calculations*
II-P98	**Aniruddha RAY**, M. D. Heijer *Thermoelectric Modules and Applications: An Industrial Perspective*
II-P99	**Laura CARLOSENA**, L. Catalán, N. Pascual, P. Alegría, M. Araiz, D. Astrain *Improving autonomous remote sensing based on thermoelectricity with radiative cooling*
II-P100	**Shoma MIURA**, A. Nagaoka, K. Nakashima, Y. Hirai, K. Nishioka *Measurement and simulation of thermoelectric performance for p-type chalcopyrite ZnSnAs*
II-P101	**Iñaki ALZUGUREN**, P. Aranguren, Á. Casi, I. Erro, N. Pascual, A. Rodríguez, D. Astrain *Hybridisation of thermoelectric technology with vapour compression refrigeration systems to improve the performance of a R290 cycle*
II-P102	**Riddhimoy PATHAK**, L. Xie, S. Das, T. Ghosh, A. Bhui, K. Dolui, D. Sanyal, J.He, K. Biswas *Vacancy Controlled Nanoscale Cation Ordering Leads to High Thermoelectric Performance*
II-P103	W. Gulbiński, **Ariel LEWANDOWSKI**, M. Alichniewicz, P. Gertner *Elastic, thin film thermolectric generator (TEG) produced by multisource magnetron sputtering for energy harvesting from heat exchanger waste heat*
II-P104	**Vaishali TANEJA**, S. Das, K. Dolui, T. Ghosh, A. Bhui, U. Bhat, D. K. Kedia, K. Pal, R. Datta, K. Biswas *High Thermoelectric Performance in Phonon-Glass Electron-Crystal Like $AgSbTe_2$*
II-P105	**Nerea PASCUAL**, P. Alegría, M. Araiz, L. Carlosena, L. Catalan, Á. Martínez, D. Astrain *Characterisation and optimisation of thermoelectric generators for powering volcanic monitoring stations under extreme climatic conditions*
II-P106	**Matevž CIMERMANČIČ**, K. Klinar, A. Kitanovski *Additively manufactured thermoelectric devices for cooling, heating, and energy harvesting applications – a review*
II-P107	**Uttam GHOSHAL**, D. Grimm, M. Koelzer, J. Palomino, J. Jamison *Multistage Conjoint Couples for Deep Cooling Applications*
II-P108	**Suchandra MUKHERJEE**, N. Rana, S. Goswami, A. Banerjee *Investigating thermoelectric performance of Ni doped Sb_2Te_3*
II-P109	**Shanmugasundaram PRIYADHARSHINI**, V. Vijay, S. Kamalakannan, J. Archana, M. Navaneethan *Realizing an ultralow thermal conductivity via interfacial scattering and rational-electronic band reformation in p-type Mg_3Sb_2 by Zn incorporation*
II-P110	**Sivakumar NANTHINI**, H. Shankar, P. Veluswamy *Fabrication and Characterization of Stibnite-Modified Cotton fabric for Thermoelectric Energy Harvesting*
II-P111	**Sajid MUHAMMAD**, M. Franzini, S. Galliano, C. Barolo, A. Reale

	Printable thermoelectric devices based on organic semiconductor composites for low-temperature grade energy harvesting
II-P112	**Mirosław MROZEK**, A. Majcher, M. Neska, A. Gospodarczyk *Waste heat recovery using thermoelectric generators with a specialized DC-AC power electronic converter*
II-P113	**Charles BARRAH**, A. Kiyabala Lopez, J. Siviter, A. Knox *Design of a multi-kW Thermoelectric Heat Pump*
II-P114	A. Attar, **Mohammed ALSUBHI**, A. Alkuhayli, A. Alharbi, A. Alsubhi *Designing Zonal Automotive Thermoelectric Air-Conditioning System for Electric Vehicles*
II-P115	**Irantzu ERRO**, P. Aranguren, I. Alzuguren, N. Pascual, A. Martinez, D. Astrain *A Computational Model for Two-Stage Thermoelectric Heat Pump Validated through Experimentation in Heating*
II-P116	**Rana GHANNAM**, S. Misra, B. Lenoir, C. Candolfi *Influence of the In-induced resonant level on the thermoelectric properties of SnTe*
II-P117	**Alaa ATTAR**, A. Alharbi *A New Design of a Geothermal Thermoelectric Generator System (GTEG) for Geothermal Heat Recovery*
II-P118	**Dona JOSEPH**, C. Fanara *PHOTOVOLTAIC THERMOELECTRIC GENERATORS: STATUS AND ASPECTS*
II-P119	**Florian LIEBETRAU**, J. Schwab, M. Kober, C. Weber, F. Rinderknecht *Microinverter for thermoelectric generators for combined feed-in to AC grids and low-voltage battery storage systems*
II-P120	**Priyanka SANGWAN**, M. Saravanan, N.K. Upadhyay, Radhey Shyam, S. R. Dhakate *Structural and Thermal Conductivity Investigations on Particulates Added $FeSi_2$ -based Thermoelectric Material*
II-P121	**Farheen ANJUM**, P. Dixit, T. Maiti *Enhanced thermoelectric performance with improved mechanical strength in Bi_2S_3 via fabrication of composite with graphite*
II-P122	**Carlo FANCIULLI**, A. Nespoli, R. Donde, C. La Terra, F. Migliorini, F. Passaretti, S. De Iuliis *Critical issues associated to thermal power density in the development of thermoelectric systems*
II-P123	**Poonam RANI**, A. Yamashita, A. Seshita and Y. Mizuguchi *Synthesis and thermoelectric properties of high-entropy-type $CoSb_3$ skutterudite*
II-P124	**Seong-jae JEON**, H. Park, S. Shin, D.-H. Kim, S. Han, J.J. Han *Evaluation of Automotive Thermoelectric Power Generation System*
II-P125	**Matthias HELMICH**, T. Knobelspies, C. Fritscher, J. Schwab, J. Schnüll, M. Kober, F. Rinderknecht, T. Siefkes *Development of a test bench for cryogenic TEG applications*
II-P126	**Atsushi YAMAMOTO**, K. Imasato, S. Baba, P. Sauerschnig, T. Ishida, M. Ohta *Thermoelectric Application to Carbon Capture System*
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