

JULY 21

Schedule	abstract-code	Position	Country	Presenter	Title	Presenter's institution
July 21, IN-TH morning session 1 - Chalcogenides and Oxides I (12 talks) - Chair: Sharma Yogeshchandra (Vivekananda Global University Jaipur Rajasthan)						
All times are IST (India Standard Time, UTC + 05:30)						
8:45 - 9:00	OPENING ADDRESS					
9:00 - 9:15	AS-O.1-01	Postdoc	IN	Rapaka S. Chandra Bose	Anisotropic Thermoelectric Transport in Textured Bismuth-Antimony Chalcogenide Nanomaterials Synthesized by Facile Bottom-up Physical Process	Defence Laboratory Jodhpur-342011 (India)
9:15 - 9:30	AS-O.1-02	Student	IN	M Manojkumar	Carrier Engineering in Layered p-type Thermoelectric CuSbSe ₂ chalcostibite	SRM IST Kattankulathur, India
9:30 - 9:45	AS-O.1-03	Post Doc	IN	Acharya Somnath	Charge Carrier Optimization and Enhanced Thermoelectric Properties of Doped SnTe	Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai. Maharashtra. India
9:45 -10:00	AS-O.1-04	Ph.D. student	IN	Das Anish	Density functional study of electronic structure and thermoelectric transport in tin selenide-copper selenide alloy	Materials Science Centre, Indian institute of Technology, Kharagpur, India
10:00 - 10:15	15` break					
10:15 - 10:30	AS-O.1-05	PhD Student	IN	Singha, Pintu	Enhancement of thermoelectric performance of transition metal doped Bi ₂ Te ₃ by retaining topological insulating phase	Department of Physics, University of Calcutta, 92 A P C Road, Kolkata 700 009, India
10:30 - 10:45	AS-O.1-06	student	TH	Junlabhut Prasopporn	Enhancing the thermoelectric properties of sputted Sb ₂ Te ₃ Thick films via Post-annealing Treatment	King Mongkut's Institute of Technology Ladkrabang
10:45 - 11:00	AS-O.1-07	Ph.D student	IN	Das, Subarna	Improvement of thermoelectric performance in Te incorporated Sb ₂ Te ₃ hetero-structure	Department of Physics, University of Calcutta, 92 A P C Road, Kolkata 700 009, India
11:00 - 11:15	AS-O.1-08	Student (PhD)	IN	R. Abinaya	Interface engineering of PANi incorporated ultrathin layered MoS ₂ nanosheets for promising thermoelectric performance	Functional Materials and Energy Devices Laboratory, Department of Physics and Nanotechnology, SRMIST, Kattankulathur-603 203, Tamil Nadu, India
11:15 - 11:30	15` break					
11:30 - 11:45	AS-O.1-09	Student (PhD)	IN	R. Sanmuka Sundari	Investigation of copper-based chalcogenides for thermoelectric applications	SRM IST, India
11:45 - 12:00	AS-O.1-10	Student (PhD)	IN	K. P. Mohammed Jibri	Investigation of thermoelectric properties of perovskite structured Lanthanum cobalt oxide (LaCoO ₃)	Functional Materials and Energy Devices Laboratory, Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Chennai, 603203, Tamil Nadu, India
12:00 - 12:15	AS-O.1-11	Student (Ph.D.)	IN	Dona Joseph	Investigation on influence of indium incorporation on thermal conductivity of polycrystalline SnSe	Functional Materials and Energy Devices Laboratory, Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur-603 203, India
12:15 - 12:30	AS-O.1-12	Ph.D scholar	IN	Rakshit, Medha	Metal chalcogenides as Thermoelectric material ---- A review	Department of Physics, Indian Institute of Engineering Science and Technology, Shibpur 711103, India 2Department of Chemical Engineering, Jadavpur University, Kolkata 700032 India
12:30 - 12:45	Lunch break					
12:45 - 13:00						
13:00 - 13:15						
13:15 - 13:30						
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Schedule	abstract-code	Position	Country	Presenter	Title	Presenter's institution
July 21, IN-TH afternoon session 1 - Chalcogenides and Oxides II (12 talks) - Chair: Swapnil Ghodke (Nagoya University)						
All times are IST (India Standard Time, UTC + 05:30)						
14:30 - 14:45	AS-O.1-13	Student	IN	Niraj Kumar Singh	Modulation of Charge Carriers and Thermoelectric Performance of Inherently p-Type Bi ₂ Te ₃ by Ge doping	School of Basic Sciences, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh, 175005, India
14:45 - 15:00	AS-O.1-14	Student	IN	Jakhar Navita	Optimizing the thermoelectric properties of n- and p- type Ag ₂ Te	Indian Institute of Science Education and Research, Pune
15:00 - 15:15	AS-O.1-15	PhD student	IN	Pandey, Juhi	Phonon-Plasmon Coupling in Thermoelectric Cu _{2-x} Te Using Raman Spectroscopy	Indian Institute of Technology Mandi
15:15 - 15:30	AS-O.1-16	Student	IN	Chandra, Sushmita	Realization of High Thermoelectric Figure of Merit in Solution Synthesized 2D SnSe Nanoplates via Ge Alloying	Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)
15:30 - 15:45	15` break					
15:45 - 16:00	AS-O.1-17	PhD Student	IN	Kumar, naveen	Simple model for thermoelectric properties of bulk and monolayer compound	Institute of Nano Science and Technology, India
16:00 - 16:15	AS-O.1-18	Research Associ	IN	Sahil Tippireddy	Simultaneous Optimization of Power Factor and Thermal Conductivity via Te and Se Double Substitution in Cu ₁₂ Sb ₄ S ₁₃ Tetrahedrite	Indian Institute of Science, Bangalore, India
16:15 - 16:30	AS-O.1-19	PhD Student	IN	Gupta, Raveena	Spin-orbit coupling effect on thermopower and power factor of CoSbS	Institute of Nano Science and Technology, Habitat Center, Phase 10, Sector 64, Mohali, Punjab 160062, India
16:30 - 16:45	AS-O.1-20	PhD Student	IN	Dr. Anil Bohra	Stabilizing the thermoelectric properties of Cu ₂ Se by W incorporation	Technical Physics Division, Bhabha Atomic Research
16:45 - 17:00	15` break					
17:15 - 17:30	AS-O.1-21	Student	IN	Mukherjee, Madhubanti	Strong Chemical Bond Hierarchy Leading to Exceptionally High Thermoelectric Figure of Merit in Oxychalcogenide AgBiTeO	Indian Institute of Science, Bangalore, India
17:30 - 17:45	AS-O.1-22	PhD student	IN	Kumari Manisha	Study of thermoelectric Properties of multilayers of Bi ₂ Te ₃ /Bi ₂ Te _{2.7} Se _{0.3}	Vivekananda Global University Jaipur Rajasthan India
17:45 - 18:00	AS-O.1-23	Student	IN	P Jothilal	Thermoelectric properties of nano-structured p-type FeSe ₂ for mid-temperature power generation	Laboratory for Energy and Advanced Devices (LEAD), Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Katankulathur, Chengalpattu 603203, Tamil Nadu, India
18:00 - 18:15	AS-O.1-24	Student	IN	Samanta, Manisha	Topological Quantum Materials for Thermoelectric Energy Conversion	Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)

Schedule	abstract-code	Position	Country	Presenter	title	Presenter's Institution
July 21, CN-SG morning session 1 - V_2VI_3, Zintl phases, and silicides (12 talks) - Chair: Qingyong Ren						
All times are CST (China Standard Time, UTC +08)						
8:15 - 8:30	OPENING ADDRESS					
8:30 - 8:45	AS-O.2-01	Student	CN	Min Sun	Tuning electrical and thermal transport via thermal stress field in Bi_2Te_3 thermoelectric fibers	South China University of Technology
8:45 - 9:00	AS-O.2-02	Student	CN	Haixu Qin	Achieving High Average zT Value in Sb_2Te_3 Based Segmented Thermoelectric Materials	Harbin institute of technology
9:00 - 9:15	AS-O.2-03	Student	CN	Qi Zhang	Evolution of the Intrinsic Point Defects in Bismuth Telluride Based Thermoelectric Materials	Zhejiang University
9:15 - 9:30	AS-O.2-04	Student	CN	Shifang Ma	Enhancing the thermoelectric performance of n-type $Bi_2Te_{2.5}Se_{0.5}$ by $BaFe_{12}O_{19}$ magnetic nanoparticles	Wuhan University of Technology
9:30 - 9:45	AS-O.2-05	Student	CN	Min Zhang	Point defects evolution induced thickness-dependent electronic transport of MBE-grown Bi_2Te_3 thin films	Wuhan University of Technology
9:45 - 10:00	AS-O.2-06	Student	CN	Jingjing Feng	Enhanced Electrical Transport Properties via Defect Control for Screen-Printed Bi_2Te_3 Films over a Wide Temperature Range	Hangzhou Innovation Institute, Beihang University, Hangzhou, 310052, China
10:00 - 10:15	15' break					
10:15 - 10:30	AS-O.2-07	Student	CN	Cuncheng Li	Effect of $GdCo_2$ magnetic nanoparticles on the interfacial composition and thermoelectric properties of p-type $BiSbTe$ alloys	Wuhan University of Technology
10:30 - 10:45	AS-O.2-08	Postdoc	CN	Chen Chen	Zintl phases $SrAgSb$ and $BaAgSb$ for waste heat recovery	Harbin Institute of Technology, Shenzhen
10:45 - 11:00	AS-O.2-09	Student	CN	Kefeng Liu	Crystal structures and thermoelectric properties of Sb-based $LiGaGe$ -related compounds	Shandong University
11:00 - 11:15	AS-O.2-10	Student	CN	Zongwei Zhang	A Dual Role by Incorporation of Magnesium in $YbZn_2Sb_2$ Zintl Phase for Enhanced Thermoelectric Performance	Harbin Institution of Technology Shenzhen
11:15 - 11:30	AS-O.2-11	Student	CN	Wenhua Xue	Study on relationship of the structural evolution and the thermoelectric properties by doping of $Ca_9Zn_{4+x}Sb_9$ based Zintl	Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Science
11:30 - 11:45	AS-O.2-12	Student	CN	Chengliang Xia	Pressure-induced enhancement of electrical transport properties of Mg_3Sb_2	The University of Hong Kong
11:45 - 12:00	AS-O.2-13	Student	CN	Zhifang Zhou	Enhanced thermoelectric performance of Ga-doped ZnO epitaxial thin films via defect engineering and sandwich structure design	Tsinghua university
12:00 - 12:15	Lunch break					
12:15 - 12:30						
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Schedule	abstract-code	Position	Country	Presenter	title	Presenter's Institution
July 21, CN-SG afternoon session 1 - Calculations and modeling (14 talks) - Chair: Ady Suwardi						
All times are CST (China Standard Time, UTC +08)						
13:30 - 13:45	AS-O.2-14	Postdoc	CN	Jingyu Li	First-principles investigation of the electronic structures and Seebeck coefficients of PbTe/SrTe	Chinese academy of sciences
13:45 - 14:00	AS-O.2-15	student	SG	Jose Recatala Gomez	Electronic transport descriptors for the rapid screening of thermoelectric materials	NTU
14:00 - 14:15	AS-O.2-16	Student	CN	Zizhen Zhou	High-throughput prediction of the carrier relaxation time via data-driven descriptor	Wuhan University
14:15 - 14:30	AS-O.2-17	Student	CN	Mingjia Yao	First-principles database for two-dimensional materials	Materials Genome Institute, Shanghai University
14:30 - 14:45	AS-O.2-18	Student	CN	Yan Cao	The prediction of ABO ₃ perovskites' thermoelectric properties through high-throughput screening	Shanghai University
14:45 - 15:00	AS-O.2-19	Student	CN	Shuping Guo	Vibrational Entropy Stabilizes Distorted Half-Heusler Structures	Institute of Solid State Physics, Chinese Academy of Sciences
15:00 - 15:15	AS-O.2-20	Student	CN	Rui Hu	Surprisingly good thermoelectric performance of black phosphorus/blue phosphorus van der Waals heterostructure	Wuhan University
15:15 - 15:30	15' break		CN			
15:30 - 15:45	AS-O.2-21	Student	CN	Junyan Liu	A promising thermoelectric 3D halides perovskite from 2D electronic structures and ultralow thermal conductivity	Beijing Institute of technology
15:45 - 16:00	AS-O.2-22	Student	CN	Ye Sheng	Active learning for the power factor predictions in diamond-like thermoelectric materials	Materials Genome Institute, Shanghai University,
16:00 - 16:15	AS-O.2-23	Student	CN	Wei Cao	Role of lone pair electrons in n-type thermoelectric properties of tin oxides	Wuhan University
16:15 - 16:30	AS-O.2-24	Student	CN	Yandong Sun	Spatial phonon-dislocation scattering process in PbTe: a molecular dynamic study	Tsinghua University
16:30 - 16:45	AS-O.2-25	Student	CN	Min Zhang	Interfacial thermal transport in MoS ₂ -MoSe ₂ , MoS ₂ -WS ₂ and MoS ₂ -WSe ₂ heterobilayers	Department of Thermo-Fluid Science and Engineering, School of Energy and Power Engineering, Jiaotong University, Xi'an, China
16:45 - 17:00	AS-O.2-26	Student	CN	Shihao Han	High thermoelectric performance of half-Heusler compound BiBaK with intrinsically low lattice thermal conductivity	Wuhan University
17:00 - 17:15	AS-O.2-27	Student	CN	Tiantian Jia	Localized dimers drive strong anharmonicity and low lattice thermal conductivity in ZnSe ₂	Institute of Solid State Physics

Schedule	abstract-code	Position	Country	Presenter	Title	Presenter's institution
July 21, JP-KR-AUS morning session 1 - Silicides, antimonides, and unconventional materials (8 talks) - Chair: Paolo Mele (Shibaura Institute of Technology)						
All times are JST (Japan Standard Time, UTC + 09)						
9:15 - 9:30	OPENING ADDRESS					
9:30 - 9:45	AS-O.3-01	student	JP	Hashimoto, Yasutaka	Fabrication of thermoelectric conversion devices using porous Si with enhanced heat transfer capabilities	Ibaraki University
9:45 - 10:00	AS-O.3-02	PhD student	JP	DWIVEDI, Pratibha	Nanostructured Thermoelectric Materials Fabricated from Chemically Synthesized I-III-IV-VI Quaternary Compound Nanocrystals	School of Materials Science, Japan Advanced Institute of Science and Technology, 1-1 Asahidai, Nomi, Ishikawa 923-1292, Japan
10:00 - 10:15	AS-O.3-03	student (DC3)	JP	Saito, Wataru	Enhancing Thermoelectric Performance of Mg ₂ Sn Single Crystals via Point Defect Engineering and Sb-doping	Department of Applied Physics, Graduate School of Engineering, Tohoku University, Sendai 980-8579, Japan
10:15 - 10:30	AS-O.3-04	Postdoc	JP	SAINI, Shrikant	Enhancement of thermoelectric properties of hybrid-halide perovskites thin films using anti-solvent	Department of Mechanical Engineering, Kyushu Institute of Technology, Tobata, Kitakyushu, Japan
10:30 - 10:45	15' break					
10:45 - 11:00	AS-O.3-05	student	JP	Yamamoto, Yuma	Reactive Consolidation of Al-Fe-Si Powder Activated via Ball-milling	Ibaraki University
11:00 - 11:15	AS-O.3-06	PhD student	KR	Hasan Raidul	Double Half-Heusler: A New Phase Half-Heusler Materials for Thermoelectric Power Generation	Yonsei University
11:15 - 11:30	AS-O.3-07	student (DC3)	JP	Huang, Yi	Enhanced Thermoelectric Performance in N-type Half-Heusler VFeSb Compounds with Cobalt-substitution	Department of Applied Physics, School of Engineering, Tohoku University, Sendai, 980-8579, Japan
11:30 - 11:45	AS-O.3-08	postdoc	JP	Tanusilp, Sora-at	Thermoelectric properties of I-doped Mo ₃ Sb ₇	Kyoto University
11:45 - 12:00	Lunch break					
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Schedule	abstract-code	Position	Country	Presenter	Title	Presenter's institution
July 21, JP-KR-AUS afternoon session 1 - Antimonides and chalcogenides (8 talks) - Chair: Shrikant Saini (Kyushu Institute of Technology)						
All times are JST (Japan Standard Time, UTC + 09)						
14:00 - 14:15	AS-O.3-09	PhD student	JP	Latronico Giovanna	Preliminary study of thin films of the filled skutterudite $\text{Sm}_y(\text{Fe}_x\text{Ni}_{1-x})_4\text{Sb}_{12}$	SIT Research Laboratories, Shibaura Institute of Technology, Saitama, Japan
14:15 - 14:30	AS-O.3-10	Student	KR	Yang, Seong Eun	3D Printing of Compositionally Segmented BiSbTe Legs for High Performance Power Generation	Ulsan National Institute of Science and Technology
14:30 - 14:45	AS-O.3-11	postdoc (JSPS)	JP	Zhang, Yu-qiao	Branching of Electrical and Thermal Conductivities in La- and Nb-substituted SrTiO_3	Hokkaido University, Japan
14:45 - 15:00	AS-O.3-12	PhD student	KR	Kim Min Young	Cu-incorporation by Melt-Spinning in n-type $\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}$ Alloys	Yonsei University
15:00 - 15:15	15' break					
15:15 - 15:30	AS-O.3-13	Student	JP	Kawajiri, Yuhei	Enhancement of thermoelectric performance of Bi_2Te_3 based alloys through energy filtering effect	Kyoto University
15:30 - 15:45	AS-O.3-14	postdoc	JP	SINGH, Saurabh	Improving the thermoelectric properties of non-toxic and flexible Ag_2S material by electronic structure modification	Toyota Technological Institute
15:45 - 16:00	AS-O.3-15	Postdoc	JP	Chetty, Raju	Power generation from colusite-based thermoelectric module	Global Zero Emission Research Center (GZR), National Institute of Advanced Industrial Science and Technology (AIST), Umezono 1-1-1, Tsukuba, Ibaraki 305-8568, Japan.
16:00 - 16:15	AS-O.3-16	Postdoc	JP	Kumar Deva Arun Karuppiah	Preparation and thermoelectric properties of Sb substituted ZnTe alloys by melt-quenching method	Shibaura Institute of Technology, College of Engineering, 337-8570 Saitama, Japan

Schedule	abstract-code	Position	Country	Presenter	Title	Presenter's institution
July 21, JP-KR-AUS afternoon session 2 - Australian contributions (5 talks) - Chair: Zhigang Chen (University of Southern Queensland)						
All times are AEST (Australian Eastern Standard Time, UTC +10)						
17:45 - 18:00	AS-O.3-17	Student	AUS	Shengduo Xu	High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments	University of Queensland
18:00 - 18:15	AS-O.3-18	Postdoc	AUS	Weidi Liu	Morphology and Texture Engineering Enhancing Thermoelectric Performance of Solvothermal Synthesized Ultra-large SnS Microcrystal	University of Queensland
18:15 - 18:30	AS-O.3-19	Lecturer	AUS	Min Hong	Establishing the golden range of Seebeck coefficient for maximizing thermoelectric performance	University of Southern Queensland
18:30 - 18:45	AS-O.3-20	Student	AUS	Wanyu Lyu	Nd doped TAGS-85 Thermoelectrical Materials	University of Southern Queensland
18:45 - 19:00	AS-O.3-21	Postdoc	AUS	Xiaolei Shi	Optimization of Sodium Hydroxide for Securing High Thermoelectric Performance in Polycrystalline Sn_{1-x}Se	University of Southern Queensland
19:00 - 19:15	CLOSING ADDRESS					

JULY 22

Schedule	abstract-code	Position	Country	Presenter	Title	Presenter's institution
July 22, IN-TH morning session 2 - (12 talks) - <i>Polymeric materials, devices and theoretical contributions</i> - Chair: Titas Dasgupta (IIT Bombay)						
All times are IST (India Standard Time, UTC + 05:30)						
9:00 - 9:15	AS-O.4-01	Ph.D scholar	IN	Chakraborty, Prasenjit	A new approach to enhance thermoelectric figure of merit of polypyrrole - reduced graphene oxide hollow fibers mat- A flexible thermoelectric material	Department of Physics, Indian Institute of Engineering Science and Technology, Howrah 711103, India
9:15 - 9:30	AS-O.4-02	PhD Student	IN	Meetu Bharti	Conducting polymers for room-temperature thermoelectric applications	Bhabha Atomic Research Centre, Mumbai
9:30 - 9:45	AS-O.4-03	Student (Ph.D.)	IN	V. Shalini	Investigating the thermoelectric properties of PANI/G nanocomposite coated carbon fabric for wearable TEGs	SRM IST, India
9:45 -10:00	AS-O.4-04	student	IN	Sukanya Das	Thermoelectric properties of PEDOT under nanoconfinement	Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bangalore-560064
10:00 - 10:15	15` break					
10:15 - 10:30	AS-O.4-05	Postdoc	IN	Juneja, Rinkle	Accelerated discovery of thermoelectrics by unravelling connections between electronic and thermal transport properties	Indian Institute of Science
10:30 - 10:45	AS-O.4-06	PhD student	IN	Gautam Sharma	Effect of electron-phonon coupling on transport properties: a thermoelectric perspective	Indian Institute of Science Education and Research, Pune, India
10:45 - 11:00	AS-O.4-07	Student	IN	Dutta, Moinak	Implication of Local Distortion in Periodic Crystals: Use of Pair Distribution Function (PDF) Analysis	Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR))
11:00 - 11:15	AS-O.4-08	Student	IN	Abhikeem, Kunwar	Multiscale modeling of unsteady non-equilibrium Boltzmann transport equation	Mechanical Engineering Deptt, Indian Institute of Technology, Bombay, India
11:15 - 11:30	15` break					
11:30 - 11:45	AS-O.4-09	Student	IN	Rao Dheemahi	MBE deposited Scandium Nitride (ScN) for Thermoelectric Applications	Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)
11:45 - 12:00	AS-O.4-10	student	IN	Sahu, Prashant	Multi-probe Measurement Technique for Accurate Measurement of Seebeck Coefficient of Thermoelectric Materials from 300-700K.	Department of Materials Engineering and Materials Science, Indian Institute of Technology, Bombay, India
12:00 - 12:15	AS-O.4-11	Student (PhD)	IN	S. Kavirajan	Realization of n-type stable Cu-based ternary compound and the effect of densification technique on its thermoelectric properties	SRM IST, India
12:15 - 12:30	AS-O.4-12	PhD student	IN	Sukanta Nandi	Waste heat driven microporous-carbon thermocells	IISc Bangalore
12:30 - 12:45	Lunch break					
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14:15 - 14:30						

Schedule	abstract-code	Position	Country	Presenter	Title	Presenter's institution
July 22, IN-TH afternoon session 2 - (9 talks) - <i>Silicides and antimonides</i> - Chairs: Kedar Hippalgaonkar, Pawan Kumar and Durga Maheswar Repaka (NTU Singapore)						
All times are IST (India Standard Time, UTC + 05:30)						
14:30 - 14:45	AS-O.4-13	PhD Student	IN	Mr. Pritam Sarkar	Development of Thermoelectric Power Generator using SiGe alloy	Bhabha Atomic Research Centre, Mumbai
14:45 - 15:00	AS-O.4-14	Student	IN	G S Madhuvathani	Nanostructuring of Si-rich MnSi composites for Mid-Temperature Thermoelectric Applications	SRM IST Kattankulathur, India
15:00 - 15:15	AS-O.4-15	student	IN	Goyal, Gagan	Novel Multi-layer Approach for Contacting Thermoelectric Materials: Case Study for n and p-type $Mg_2Si_{0.3}Sn_{0.7}$	Department of Metallurgical Engineering & Materials Science, Indian Institute of Technology Bombay,
15:15 - 15:30	AS-O.4-16	PhD Student	IN	Babu Jayachandran	One-step fabrication of low resistance contacts for $Mg_2Si_{1-x}Sn_x$ thermoelectric materials	ARCI Inst., India
15:30 - 15:45	15` break					
15:45 - 16:00	AS-O.4-17	student	IN	Biswas, Rajan	Dependence of Lattice Thermal Conductivity on Doping in Electron-Poor Semiconductors: Case Study in ZnSb-CdSb Solid Solution	Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai 400 076, India
16:00 - 16:15	AS-O.4-18	student	IN	Trivedi, Vikrant	Effect of Tantalum filling and nanostructuring on thermoelectric properties of $CoSb_3$ skutterudites	ARCI, India
16:15 - 16:30	AS-O.4-19	student	IN	Tiadi, Minati	Enhanced thermoelectric performance and positive magnetoresistivity in p-type Mg_3Sb_2	International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), IIT Madras, Research Park, Taramani, Chennai-600113, India
16:30 - 16:45	AS-O.4.20	PhD STUDENT	IN	Sanyukat Ghosh	Enhanced thermoelectric properties of $In_{0.2}Co_4Sb_{12}$ by uniform dispersion of GaSb nanoinclusions	Thermoelectric Materials and Devices Laboratory, Department of Physics, Indian Institute of Science, Bangalore 560012, India
16:45 - 17:00	AS-O.4-21	Student	IN	Saurabh Kumar	Enhancing thermoelectric figure-of-merit in defect stabilized half-Heusler $NbCoSb$	IISER Pune
17:00 - 17:15	CLOSING ADDRESS					

Schedule	abstract-code	Position	Country	Presenter	title	Presenter's Institution
July 22, CN-SG morning session 2 - Thin films, organics, and devices (14 talks)- Chair: Chaohua Zhang						
All times are CST (China Standard Time, UTC +08)						
8:30 - 8:45	AS-O.5-01	Student	CN	Tingting Sun	All-fiber based thermoelectric materials and generators toward wearable application	Donghua University
8:45 - 9:00	AS-O.5-02	Student	CN	Yihan Wang	Tuning Thermoelectric Performance of Poly(3,4-ethylenedioxythiophene): Poly(styrene sulfonate)/Polyaniline Composite Films by Nanostructure Evolution of Polyaniline	Sichuan University
9:00 - 9:15	AS-O.5-03	Student	CN	Xiaolei Nie	High-performance thermoelectric films and their efficient cooling technology	Wuhan University of Technology
9:15 - 9:30	AS-O.5-04	Student	CN	Chan Liu	Understanding interface role in flexible nanocomposites for high thermoelectric performance	Tsinghua University
9:30 - 9:45	AS-O.5-05	Student	CN	Xue Wang	Novel high-power multilayer composite structured thermoelectric module	Shandong University
9:45 - 10:00	AS-O.5-06	Student	CN	Chun Hung Suen	Thermoelectric properties of low dimensional telluride materials	The Hong Kong Polytechnic University
10:00 - 10:15	15' break		CN			
10:15 - 10:30	AS-O.5-07	Student	CN	Yaling Wang	Self-powered Wearable Pressure Sensing System for Continuous Healthcare Monitoring Enabled by Flexible Thin-Film Thermoelectric Generator	Beihang University
10:30 - 10:45	AS-O.5-08	Student	CN	Yuedong Yu	Cross-plane thin-film thermoelectric generator with high power density assisted by advanced pulse laser ablation patterning technique	Hangzhou Innovation Institute, Beihang University, Hangzhou, 310052, China
10:45 - 11:00	AS-O.5-09	PhD Student	SG	Yi Zhou	Revealing the origin of thermoelectric sensing: From reverse temperature gradient to eigen-resolution	National University of Singapore
11:00 - 11:15	AS-O.5-10	Student	CN	Qingqing Lu	The reliability experiment study of mini thermoelectric cooler under extreme working condition	Huazhong University of Science and Technology
11:15 - 11:30	AS-O.5-11	Student	CN	Bingxuan Niu	Dynamic research of on-Chip hot spot removal with micro-thermoelectric cooler	Huazhong University of Science and Technology
11:30 - 11:45	AS-O.5-12	Student	CN	Yixin Chen	Thermal-Electrical Transport Characteristics and Structure Optimization of Thermoelectric Coolers	Huazhong University of Science and Technology
11:45 - 12:00	Lunch break					
12:00 - 12:15						
12:15 - 12:30						
12:30 - 12:45						
12:45 - 13:00						
13:00 - 13:15						
13:15 - 13:30						

Schedule	abstract-code	Position	Country	Presenter	title	Presenter's Institution
July 22, CN-SG afternoon session 2 -Transition metals Chalcogenides (14 talks) - Chair: Yuan Yu						
All times are CST (China Standard Time, UTC +08)						
13:30 - 13:45	AS-O.5-13	Student	CN	Feihong Shen	Enhancing the thermoelectric performance of Cu _{1.9} S by transition elements doping	Guilin University Of Electronic Technology
13:45 - 14:00	AS-O.5-14	Student	CN	Shan Li	Defect engineering for realizing p-type AgBiSe ₂ with promising thermoelectric performance	Harbin Institute of Technology (Shenzhen)
14:00 - 14:15	AS-O.5-15	Student	CN	Mingjing Tang	Modulation of thermoelectric performance for superionic conductor AgCrSe ₂	Sichuan University
14:15 - 14:30	AS-O.5-16	Student	CN	Xingchen Shen	High Thermoelectric Performance in Sulfide-Type Argyrodites Compound Ag ₈ Sn(S _{1-x} Se _x) ₆ Enabled by Ultralow Lattice Thermal Conductivity and Extended Cubic Phase Regime	Chongqing University
14:30 - 14:45	AS-O.5-17	Student	CN	Yijing Fan	Enhanced thermoelectric properties of p-type Argyrodites Cu ₈ GeS ₆ through Cu vacancy	
14:45 - 15:00	AS-O.5-18	Student	CN	Zongmo Shi	Microstructure and thermoelectric properties of [00]c grain-aligned Ca ₃ Co ₄ O ₉ ceramics	Northwestern Polytechnical University
15:00 - 15:15	AS-O.5-19	Student	CN	Taoyi Liu	Enhanced thermoelectric properties of La and Sr dual doped CaMnO ₃ ceramics	SiChuan University
15:15 - 15:30	15' break					
15:30 - 15:45	AS-O.5-20	Student	CN	Jianglong Zhu	Candidate for Magnetic Doping Agent and High-Temperature Thermoelectric Performance Enhancer: Hard Magnetic M-type BaFe ₁₂ O ₁₉ Nanometer Suspension	Anhui University of technology
15:45 - 16:00	AS-O.5-21	Student	CN	Zhaoyang Jia	Research progress on Seebeck effect of cement-based composites	Xi'an University of Architecture and Technology
16:00 - 16:15	AS-O.5-22	Student	CN	Yuan Wang	Dramatically Improved Thermoelectric Properties by Defect Engineering in Cement-Based Composites	Xi'an University of Architecture and Technology
16:15 - 16:30	AS-O.5-23	Student	CN	Bo Fu	Discussion on Phonon Scattering and Confinement, and Thermal Conductivity Optimization	Xi'an Jiaotong University
16:30 - 16:45	AS-O.5-24	Student	CN	Dandan Qin	Routes for suppression of thermal conductivity in Yb-filled skutterudites to improve thermoelectric performance	Harbin Institute of Technology
16:45 - 17:00	AS-O.5-25	Student	CN	Boyu Wang	Synthesis and properties of Ni _{0.3} Co _{3.7} Sb ₁₂ skutterudite filled with electronegative element Se	Beijing Institute of Technology
17:00 - 17:15	AS-O.5-26	Student	CN	Xin Tong	Effects of sintering temperature on microstructure and thermoelectric properties of Ce-filled Fe ₄ Sb ₁₂ skutterudites	Anhui University of Technology

JULY 23

Schedule	abstract-code	Position	Country	Presenter	title	Presenter's Institution
July 23, CN-SG morning session 3 - IV-VI Chalcogenides 1 (13 talks) - Chair: Siqi Lin						
All times are CST (China Standard Time, UTC +08)						
8:30 - 8:45	AS-O.6-01	Postdoc	CN	Zhengshang Wang	Synergistic tuning of carrier mobility, effective mass and point defects scattering triggered high thermoelectric performance in n-type Ge-doped PbTe	Sichuan University
8:45 - 9:00	AS-O.6-02	Student	CN	Yixuan Wu	Thermoelectric Enhancements in PbTe Alloys Due to Dislocation-Induced Strains and Converged Bands	Tongji University
9:00 - 9:15	AS-O.6-03	Student	CN	Tingting Chen	Microwave hydrothermal synthesis and thermoelectric properties of n-type $Pb_{1-x}Bi_xTe$ alloys	Shandong University
9:15 - 9:30	AS-O.6-04	Student	CN	Rui Cheng	Identifying the origins of high thermoelectric performance in group IIIA elements doped PbS	Wuhan University of Technology
9:30 - 9:45	AS-O.6-05	Student	CN	Wenjie Wu	Realizing high thermoelectric performance in Ag-doped PbSe bulk by morphology engineering	China Academy of Engineering Physics
9:45 - 10:00	AS-O.6-06	Student	CN	Fengkai Guo	Enhanced Comprehensive Performance of Thermoelectric SnTe via In-Li Codoping	Harbin Institute of Technology
10:00 - 10:15	AS-O.6-07	Student	CN	Teng Wang	Ultra-low lattice thermal conductivity of SnTe due to enhanced lattice anharmonicity	Shandong University
10:15 - 10:30	15' break					
10:30 - 10:45	AS-O.6-08	Student	CN	Qiang Zhang	Multiple Effects of $Ag(Bi/Sb)Se_2$ on thermoelectric properties of SnTe	Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Science, Ningbo 315201, China
10:45 - 11:00	AS-O.6-09	Student	CN	Zhiyu Chen	Synergistic Manipulation of Transport Properties for Advancing Thermoelectric Performance in SnTe Alloys	Sichuan University
11:00 - 11:15	AS-O.6-10	Postdoc	CN	Rathinam Vasudevan	Optimized thermoelectric performances of highly dense Ag doped SnSe polycrystal	Shanghai Jiao Tong University
11:15 - 11:30	AS-O.6-11	Student	CN	Yifei Li	Optimization of thermoelectric properties of monolayer SnSe doped with Mn nanowires	Xi'an Jiaotong University
11:30 - 11:45	AS-O.6-12	Student	CN	Xiaofang Liu	Facile Solution Synthesis of SnSe/rGO Nanocomposites and Impurity-Removed SnSe Nanorods with Enhanced Thermoelectric performance	College of Materials Science and Engineering, Chongqing University
11:45 - 12:00	AS-O.6-13	Student	CN	Xuming Guo	Thermoelectric Transport Properties in Bi-Doped SnTe-SnSe Alloys	Sichuan University
12:00 - 12:15	Lunch break					
12:15 - 12:30						
12:30 - 12:45						
12:45 - 13:00						
13:00 - 13:15						
13:15 - 13:30						

Schedule	abstract-code	Position	Country	Presenter	title	Presenter's Institution
July 23, CN-SG afternoon session 3 - IV-VI Chalcogenides 2, scattering mechanism and microstructure (13 talks) - Chair: Chenguang Fu						
All times are CST (China Standard Time, UTC +08)						
13:30 - 13:45	AS-O.6-14	Associated professor	CN	Chaohua Zhang	Ge-vacancy Engineering of GeTe-based Alloys for Enhanced Thermoelectric Performance	Shenzhen University
13:45 - 14:00	AS-O.6-15	Postdoc	SG	Ady Suwardi	Leveraging on Quality Factor as a Guide Towards Enhancing Thermoelectric Performance: A Case Study of GeTe	IMRE, Singapore
14:00 - 14:15	AS-O.6-16	Student	CN	Zhonglin Bu	High performance GeTe thermoelectrics in both rhombohedral and cubic phases	Tongji University
14:15 - 14:30	AS-O.6-17	Student	CN	Longquan Wang	Discovery of low-temperature GeTe-based thermoelectric alloys with high performance competing with Bi ₂ Te ₃	Shenzhen University
14:30 - 14:45	AS-O.6-18	Student	CN	Jiangtao Wu	The Study of GeTe-based Compounds with Inelastic Neutron Scattering	Shanghai Jiao Tong University
14:45 - 15:00	AS-O.6-19	Student	CN	Shuo Chen	Vacancy-based Defects Regulation for High Thermoelectric Performance in Ge ₉ Sb ₂ Te _{12-x} compounds	Wuhan University of Technology
15:00 - 15:15	AS-O.6-20	Postdoc	CN	Qingyong Ren	Establishing the carrier scattering phase diagram for ZrNiSn-based half-Heusler thermoelectric materials	Shanghai Jiao Tong University
15:15 - 15:30	15' break		CN			
15:30 - 15:45	AS-O.6-21	Student	CN	Xinyue Zhang	Electronic Quality Factor for Thermoelectrics	Tongji University
15:45 - 16:00	AS-O.6-22	Student	CN	Decheng An	High-performance p-type elemental Te thermoelectrics enabled by synergy of carrier tuning and phonon engineering	Taiyuan University of Technology
16:00 - 16:15	AS-O.6-23	Student	CN	Chaoliang Hu	Carrier Grain Boundary Scattering in Thermoelectric Materials	Zhejiang University
16:15 - 16:30	AS-O.6-24	Student	CN	Wenbin Qiu	Enhancing the Figure of Merit of n-Type PbTe Materials through Multi-scale Graphene induced Grain Boundary Engineering	Sichuan University
16:45 - 17:00	AS-O.6-25	Student	CN	Pengfei Nan	Revealing the origin of dislocations in Pb _{1-x} Sb _{2x/3} Se(x=0~0.09)	Anhui University
17:00 - 17:15	CLOSING ADDRESS					

POSTER SESSION - JULY 21, 22, 23

abstract-code	Position	Country	Presenter	Title	Presenter's institution
Asia poster session - 21, 22, 23 July - via Twitter - search for hashtag #VCT2020Poster					
AS-P.1-01	Research Assistant Professor	IN	Manikandan, Sundararaj	Thermal Stress Analysis of Thermoelectric Cooler	SRM Institute of Science and Technology
AS-P.1-02	Student	IN	Ninawe, Pranay	Imparting Multifunctionality by Utilizing Biporosity in a Zr-Based MOF	IISER Pune, India
AS-P.1-03	Student	IN	Prasad, Rishi	One-pot synthesis of thermoelectric oxide (ZnO) _k .In ₂ O ₃ (k=3, 5 & 7) – a potential photocatalyst	Symbiosis Institute of Technology, India
AS-P.1-04	PhD student	IN	Thomas, Riya	Role of In doping on enhanced thermoelectric properties of Cu ₂ SnSe ₃	Manipal Institute of Technology
AS-P.1-05	Post Doctoral fellow	IN	Mukherjee, Shripama	Effect of unidirectional solidification in the microstructure and thermoelectric power factor of Cu ₂ Te-Sb ₂ Te ₃ pseudo-binary alloys	Indian Institute of Science
AS-P.1-06	Senior reserach fellow	IN	Althaf R	Doped ZnO nanosheets towards the realization of high thermoelectric performance	PSG Institute of Advanced Studies
AS-P.1-07	Assistant Professor	IN	Sathiyamoorthy Suhasini	A novel thermoelectric generator module along with thermo-mechanical properties	SRM Institute of Science and Technology
AS-P.1-08	Scientific Officer- C	IN	Sarkar Pritam	Development of Thermoelectric Power Generator using SiGe alloy	Bhabha Atomic Research Centre
AS-P.1-09	PhD Research Scholar	IN	Dipanjan Kumar	Study on microstructural evolution at PbTe/(Ni-XFe) interfaces using diffusion couple technique	IISc
AS-P.1-10	Assistant Professor	IN	Rjeshkumar Mohanraman	Influence of In doping on the thermoelectric properties of AgSbTe ₂ compound with enhanced figure of merit	Vellore Institute of Technology
AS-P.1-11	Ph.D research scholar	IN	Anuradha	Understanding the Conduction Mechanism in N Ion Implanted SrTiO ₃ Thin Films from Electrical and Thermoelectric Properties	Inter University Accelerator Centre
AS-P.1-12	Ph.D.	IN	Dabral, keshav Prasad	Enhanced thermoelectric performance of Yb filled CoSb ₃ due to Type- I clathrates addition	Indian Institute of technology Bombay
AS-P.1-13	Assistant Professor	IN	Dr.K. Agilandeswari	Molten Flux synthesis and Characterization of Thermoelectric Material – Ca _{3-x} Y _x Co ₄ O ₉	PSG College of Arts and Science
AS-P.1-14	Research fellow	IN	K Gurukrishna	Role of Se non-stoichiometry in enhancing thermoelectric performance of Cu ₂ SnSe ₃ system	Manipal Institute of Technology, MAHE, Manipal
AS-P.1-15	Research Student	IN	Kumar Sunil	Thermoelectric properties of Bi ₂ Te ₃ nanostructures	IIT DELHI
AS-P.1-16	Assoc. Professor	IN	Srivastava, Archana	Thermal Properties of Mixed Valence Manganites.	Sri Sathya Sai College for Women, Bhopal
AS-P.1-17	Research Scholar	IN	Swetha	Synthesis and Characterisation of Polypyrrole-Ce _{0.05} CoSb ₃ nanocomposites	B.M.S. College of Engineering
AS-P.1-18	Student (Osaka University)	JP	Souda, Daiki	Searching for a high performance thermoelectric material from large-scale materials database	Kyoto University
AS-P.1-19	PhD student	JP	Felizco, Jenichi Clairvaux	Excimer Laser Irradiation of Amorphous IGZO Thin Films for Thermoelectric Device Applications	Nara Institute of Science and Technoloy
AS-P.1-20	student	JP	Hiyama Yohei	Fabrication of lotus-type porous thermoelectric materials by continuous casting method	Graduate School of Sci. and Eng., Ibaraki Univ.
AS-P.1-21	student	JP	Hiroki Matsui	Existing composition range of the Al ₂ Fe ₃ Si ₃ phase and its composition dependent thermoelectric properties	Graduaate school of science and Engineering, Ibaraki University
AS-P.1-22	student	JP	Ikeguchi, Yoku	Structure Optimization of Thin Film Thermoelectric Generator	Nara Institute of Science and Technology
AS-P.1-23	student	JP	Aoki Yuta	Development of multiple diffusion method to facilitate phase diagram investigations	Ibaraki University
AS-P.1-24	assistant professor	IR	Pakmehr, Mehdi	Synthesis and transport study of bulk polycrystalline molybdenite	Shiraz University
AS-P.1-25	Emeritus Professor	AUS	Goldsmid, Julian	Determination of the thermoelectric figure of merit using the Peltier cooling effect	University of New South Wales