

Poster Presentations

P01	<p><i>Mechanistic Understanding of the Salt-induced n-Type Doping of Single-Walled Carbon Nanotubes</i></p> <p><u>Tomohiro Ikeda</u>, Tsuyoshi Kawai and Yoshiyuki Nonoguchi</p>
P02	<p><i>n-Type Thermoelectric Properties of Single-walled Carbon Nanotubes Encapsulating 1,1'-Bis(diphenylphosphino)ferrocene</i></p> <p><u>Yu Iihara</u>, Tsuyoshi Kawai and Yoshiyuki Nonoguchi</p>
P03	<p><i>Influence of Polymerization Method on the Thermoelectric Properties of Multi-walled Carbon Nanotubes/Polypyrrole Composites</i></p> <p><u>Haijun Song</u> and Kefeng Cai</p>
P04	<p><i>Thermoelectric Properties of Carbon Nanotube/UV-Curable Resin Composite</i></p> <p><u>Wenxin Huang</u>, Tsuyohiko Fujigaya and Naotoshi Nakashima</p>
P05	<p><i>Improved Thermoelectric Properties Using Protein Assisted Nanostructure</i></p> <p><u>Mutsunori Uenuma</u>, Chao He, Ichiro Yamashita and Yukiharu Uraoka</p>
P06	<p><i>Carbon Nanotubes Hybridized to a One-dimensional Coordination Polymer as a Thermoelectric Material</i></p> <p><u>Ryota Matsuoka</u>, Ryota Sakamoto and Hiroshi Nishihara</p>
P07	<p><i>Thermoelectric Performance of Structurally Ordered Polyaniline-Carbon Nanotube Composite</i></p> <p><u>Mukulika Jana Chatterjee</u>, Krishanu Chatterjee and Dipali Banerjee</p>
P08	<p><i>Metal-Semiconductor Transition in Single-walled Carbon Nanotubes Induced by Ionic Liquids</i></p> <p>Motohiro Nakano, <u>Tsuyoshi Kawai</u> and Yoshiyuki Nonoguchi</p>
P09	<p><i>Improvement of Stability of n-Type CNTs by Hybridization with Polymer for Organic Hybrid Thermoelectrics</i></p> <p><u>Keisuke Oshima</u>, Hitoshi Asano, Yukihide Shiraishi and Naoki Toshima</p>

P10	<p><i>Organic Hybrid Thermoelectric Films Containing Nano-Dispersed Polymer Complex (n-PETT), CNT and Polymer: Improvement of the Properties by Solvent Treatment</i></p> <p><u>Shifumi Sadakata</u>, Keisuke Oshima, Hitoshi Asano, Yukihide Shiraishi and Naoki Toshima</p>
P11	<p><i>Organic Hybrid Thermoelectric Materials Composed of CNT/Pd Nanoparticles/Poly(vinyl chloride)</i></p> <p><u>Junta Inoue</u>, Keisuke Oshima, Hitoshi Asano, Yukihide Shiraishi and Naoki Toshima</p>
P12	<p><i>Integrated Material/Device Design of Thermoelectric Fabrics Using Carbon Nanotube Yarns with Striped Chemical Doping</i></p> <p><u>Takuya Koizumi</u>, Mitsuhiro Ito, Ryo Abe, Hirotaka Kojima and Masakazu Nakamura</p>
P13	<p><i>Graphene Nanomesh Structures from Block Copolymer Self-assembly for Thermoelectric Applications</i></p> <p>Jinwoo Oh, Heesuk Kim and <u>Jeong Gon Son</u></p>
P14	<p><i>Thermoelectric Performances of Graphene/Polyaniline Composites Prepared by One-step Electrosynthesis</i></p> <p><u>Lu Zhang</u>, Saki Fukumoto, Ichiro Imae and Yutaka Harima</p>
P15	<p><i>Preparation and Thermoelectric Properties of Reduced Graphene Oxide-Polypyrrole Composite</i></p> <p><u>Mousumi Mitra</u>, Dipali Banerjee, Kajari Kargupta and Saibal Ganguly</p>
P16	<p><i>Inorganic/Organic Hybrid Foil for Flexible Thermoelectric Generators</i></p> <p><u>Ruoming Tian</u>, Azrina Binti Azizi, Chunlei Wan and Kunihito Koumoto</p>
P17	<p><i>Charge-Transport Properties of Organic-Inorganic Hybrid Metal-Halide Semiconducting Perovskites</i></p> <p><u>Hiroyuki Hasegawa</u> and Tamotsu Inabe</p>
P18	<p><i>Decoupling Electrical and Thermal Properties in Antimony Telluride Based Artificial Multilayer for High Thermoelectric Performance</i></p> <p><u>Wenwen Zheng</u>, Ziyu Wang, Jing Shi and Rui Xiong</p>

P19	<p><i>Organic Hybrid Thermoelectric Materials Containing PEDOT-PSS and GeO₂ Nanoparticles</i></p> <p>Yosuke Okawachi, Keita Terada, Hiroya Sawai, Hitoshi Asano, Hiroaki Anno, <u>Yukihide Shiraishi</u> and Naoki Toshima</p>
P20	<p><i>Strain Engineering for Thermoelectric Performance of Phosphorene</i></p> <p><u>Satoru Konabe</u> and Takahiro Yamamoto</p>
P21	<p><i>The Seebeck Effect of Organic/ Inorganic Hybrid CH₃NH₃PbX₃ Perovskite Single Crystals</i></p> <p><u>Yuchun Liu</u> and Bin Hu</p>
P22	<p><i>Tuning the Thermal Conductivity of DNTT Organic Semiconductor Thin Films with Metal Nanoparticles</i></p> <p>Xinyu Wang, Kevin D. Parrish, Jonathan A. Malen and <u>Paddy K. L. Chan</u></p>
P23	<p><i>Power Factor Enhancement in Tellurium Nanowires/Reduced Graphene Oxide Flexible Thermoelectric Films</i></p> <p>Lei Miao, <u>Jie Gao</u>, Chengyan Liu, Xiaoyang Wang, Ying Peng, Chao Li and Rong Huang</p>
P24	<p><i>Thermoelectric Properties of PEDOT/PSS-Halloysite Nanotube (HNTs) Hybrid Films</i></p> <p><u>Hu Yan</u></p>
P25	<p><i>Synthesis and Properties of Polythiophenes Composed of 3,4-Ethylenedioxythiophene and 3-Hexylthiophene</i></p> <p><u>Ichiro Imae</u>, Tatsunari Goto, Ryo Ogino and Yutaka Harima</p>
P26	<p><i>Thermoelectric Properties of Electrosynthesized PEDOT Films</i></p> <p><u>Tatsunari Goto</u>, Lu Zhang, Daiki Fujimoto, Ichiro Imae and Yutaka Harima</p>
P27	<p><i>Enhanced Thermoelectric Performance of PEDOT:PSS Films by Treatment with Self-assembled Monolayers</i></p> <p><u>Ju Hyung We</u>, Soo Young Choi, Sun Jin Kim, Jin-Baek Kim and Byung Jin Cho</p>
P28	<p><i>Highly Flexible and Stable PEDOT:PSS Thin-Film as a Prospective Thermoelectric Material</i></p> <p><u>Fengxing Jiang</u>, Jinhua Xiong, Jingkun Xu</p>

P29	<p><i>PEDOT-Tellurium Films Synthesized by Electrochemical Method for Hybrid Thermoelectric Materials</i></p> <p><u>Mario Culebras</u>, Ana. M. Igual, Clara M Gómez and Andrés Cantarero</p>
P30	<p><i>n-Type Poly(3,4-ethylene dioxythiophene)/V₂O₅ Hybrid Material Obtained by Intercalation for Flexible Thermoelectric Devices</i></p> <p><u>Salim Ferhat</u>, Philippe Baranek, Didier Noël, Bertrand Garnier, Bernard Ratier and Bruno Lucas</p>
P31	<p><i>Multi-dimensional Carbon Hybridization of PEDOT:PSS on the Polymer Thermoelectric Devices</i></p> <p><u>Dohyuk Yoo</u>, Chanil Park, Eunhyang Cho, Hyang Hee Choi and Jung Hyun Kim</p>
P32	<p><i>Low Thermal Conductivity and High Thermoelectric Performance in Sb₂Te₃/poly (3,4-ethylenedioxythiophene) Thermoelectric Composites</i></p> <p><u>Wenwen Zheng</u>, Ziyu Wang, Jing Shi and Rui Xiong</p>
P33	<p><i>Plastic Electronics-Optimisation of PEDOT Materials and Composites for Thermoelectric Applications</i></p> <p><u>P. Taroni Junior</u>, I. Hoces, N. Stingelin, M. Heeney, M. Baxendale and E. Bilotti</p>
P34	<p><i>Improvement of Thermoelectric Properties of PEDOT-PSS/Xylitol Composite Films by Stretching Technique</i></p> <p><u>Keisuke Oshima</u>, Shoko Ichikawa and Naoki Toshima</p>
P35	<p><i>Facile Preparation Route of Magnetic PEDOT/PSS Micro-Particle Using a Microfluidic Droplet Devices</i></p> <p><u>Sang Woo Lee</u> and Jin-Heong Yim</p>
P36	<p><i>The Effect of Anisotropy on PEDOT:PSS Thermoelectric Characteristics</i></p> <p><u>Masakazu Mukaida</u>, Qingshuo Wei, Kazuhiro Kirihara and Takao Ishida</p>
P37	<p><i>Temperature Dependant Thermoelectric Behaviour of PEDOT</i></p> <p><u>Manting Qiu</u></p>

P38	<p><i>Selective Deposition of PEDOT:PSS on a PMMA Substrate with Electrostatic Forces via Nanoxerography</i></p> <p><u>Julia Hann</u>, Detlef Billep and Thomas Geßner</p>
P39	<p><i>Comparison of Output Power between Two Kinds of Thermoelectric Module Structures Using PEDOT:PSS Film</i></p> <p><u>Kenji Goto</u>, Kazuya Okamoto, Hiroaki Anno and Naoki Toshima</p>
P40	<p><i>Simulation of Output Power for Organic Thermoelectric Module by Heat Transfer and Thermal-Fluid Analysis</i></p> <p><u>Kazuya Okamoto</u>, Kenji Goto, Hiroaki Anno and Naoki Toshima</p>
P41	<p><i>Flexible Thermoelectric Devices with H₂SO₄-Treated PEDOT:PSS</i></p> <p>Jaeyun Kim, Sung Hyun Kim and <u>Jeonghun Kwak</u></p>
P42	<p><i>Printing of Thermoelectric Modules</i></p> <p><u>L. Stepien</u>, A. Roch, S. Schlaier, I. Dani, T. Herndl, C. Steffan and C. Leyens</p>
P43	<p><i>Soluble Conducting Polymer for n-Type Thermoelectric Generators</i></p> <p><u>Sunbin Hwang</u>, William J. Potscavage, Jr. and Chihaya Adachi</p>
P44	<p><i>The Influence of Molecular Configuration on the Thermoelectrical Properties of Poly(3-hexylthiophene)</i></p> <p><u>Sanyin Qu</u>, Qin Yao, Wei Shi, Liming Wang and Lidong Chen</p>
P45	<p><i>Thermoelectric Property of Poly(3-hexylthiophene) Nanofiber Mats Made by Whisker Method</i></p> <p><u>Takeshi Shimomura</u>, Jumma Wakui and Junji Aoki</p>
P46	<p><i>Preparation and Thermoelectric Properties of Reduced Graphene Oxide-Polypyrrole Composite</i></p> <p><u>Mousumi Mitra</u>, Dipali Banerjee, Kajari Kargupta and Saibal Ganguly</p>
P47	<p><i>Synthesis of Nano-dispersed Polymer Complex n-PETT as Promoter for Carrier Transport, and Its Application to Organic Hybrid Thermoelectric Materials n-PETT/CNT/PVC</i></p> <p><u>Keisuke Oshima</u>, Shifumi Sadakata, Hitoshi Asano, Yukihide Shiraishi and Naoki Toshima</p>

P48	<p><i>Enhancing zT of Conducting Polymers by Utilizing Phonon Glass Nature in the π-π Stacking Direction and Electron Crystal in the Backbone Direction</i></p> <p><u>Wen Shi</u>, Gang Zhou, Dong Wang and Zhigang Shuai</p>
P49	<p><i>Study the Thermoelectric Properties Base on the Organic Materials and Thin Film Device</i></p> <p><u>Ling Xu</u> and Bin Hu</p>
P50	<p><i>Universality of Giant Seebeck Effect in Organic Semiconductors: Impact of the Activation Energy of Electrical Conductivity</i></p> <p><u>Hiroataka Kojima</u>, Ryo Abe, Fumiya Fujiwara, Mario Nakagawa, Mitsuhiro Ito, Kohtaro Takahashi, Tatsuya Yamamoto, Hidenori Yakushiji, Masaaki Ikeda, Daiki Kuzuhara, Hiroko Yamada and Masakazu Nakamura</p>
P51	<p><i>2D-GIXD Analysis of Small Organic Materials Exhibiting the Giant Seebeck Effect</i></p> <p><u>Mario Nakagawa</u>, Ryo Abe, Fumiya Fujiwara, Hiroataka Kojima, Kohtaro Takahashi, Daiki Kuzuhara, Takafumi Oguri, Mamoru Kikuchi, Tsuyoshi Watanebe, Tomoyuki Koganezawa, Hiroko Yamada, Noriyuki Yoshimoto and Masakazu Nakamura</p>
P52	<p><i>Enhancement of Thermoelectric Properties in Carbon Nanotube Films by Controlling Phonon and Charge Transport Using Biomolecular Junctions</i></p> <p><u>Mitsuhiro Ito</u>, Naofumi Okamoto, Takuya Hashizume, Ryo Abe, Hiroataka Kojima, Ichiro Yamashita, Takeshi Saito and Masakazu Nakamura</p>
P53	<p><i>Thermopower of $Pd(dmit)_2$ Based Salts Through The Pressure Induced Metal-Insulator Transition</i></p> <p><u>Majed Abdel-Jawad</u>, Reizo Kato, Isao Watanabe, Naoya Tajima and Yasuyuki Ishii</p>
P54	<p><i>Electronic Structures of Organic Materials used in Thermoelectrics Devices Estimated with "Photoemission Yield Spectroscopy in the Air"</i></p> <p><u>Yoshiyuki Nakajima</u></p>
P55	<p><i>Solution-Processed Organic Thin Film Transistors of a Soluble Tetrabenzoporphyrin</i></p> <p><u>Kohtaro Takahashi</u>, Bowen Shan, Daiki Kuzuhara, Mitsuharu Suzuki, Naoki Aratani, Tomoyuki Koganezawa, Qian Miao and Hiroko Yamada</p>