

Area Name	Session Class	Session No.	Session Name	Date	Time	Room	Chair1	Chair2	ID No.	Abstract Title	First Author	
Area XI: Energy Conservation & Heat Pump	Oral Session	O-He-1	Invited Lecture and Energy Management	19-Jun	13:00 - 15:10	311+312	Haruki Sato (Keio University, Japan)	Satoshi Yoshida (Yokohama National University, Japan)	1	Invited11-1	Rational energy use with heat pumps and buildings with low energy consumption	Marek Miara (Fraunhofer Institute for Solar Energy Systems)
									2	BK11-1	Break 10minutes	
									3	a90933	AN EXAMPLE OF CEMS, CLUSTER ENERGY MANAGEMENT SYSTEM IN AGING SOCIETY	Kohei Terashima (Keio University, Yokohama, Japan)
									4	a90477	EMPIRICAL STUDY TOWARD REALIZATION OF ZEB IN URBAN AREA	Takuya Tanaka (TAISEI Corporation, Tokyo, Japan)
									5	a90015	MULTIVALENT NEIGHBORHOOD HEAT GRID INCLUDING POWER-TO-HEAT & SHARED STORAGE CONCEPT	Benedict Christoph Franz Holbein (Institute for Automation and Applied Informatics IAI, Karlsruhe Institute of Technology KIT)
									6	a91070	THEORETICAL DEVELOPMENT ON THE ISOSTERIC HEAT OF ADSORPTION AND EXPERIMENTAL CONFIRMATION	Kyaw Thu (Green Asia Education Center, Kyushu University, Japan)
Area XI: Energy Conservation & Heat Pump	Oral Session	O-He-2	Thermal Energy Treatment	19-Jun	15:30 - 17:10	311+312	Satoshi Yoshida (Yokohama National University, Japan)	Haruki Sato (Keio University, Japan)	1	a90103	Thermochemical Energy Storage Based on Calcium Hydroxide for Seasonal Balance of Surplus Electricity and Heat Demand in Buildings	Matthias Schmidt (German Aerospace Center, Institute of Engineering Thermodynamics, Cologne, Germany)
									2	a90400	Feasibility Study of Thermoelectric Coolers Based on $FeAs_{2-x}Sb_x$ ($x=0, 1, \text{ or } 2$) Marcasite Compounds by Estimating Electron and Phonon Transports from First-principles Calculations	Semi Bang (Department of Environmental Science and Engineering, Ewha Womans University, Seoul, Republic of Korea)
									3	a90513	ENHANCEMENT OF HEAT TRANSFER IN PCM BASED HEAT ACCUMULATORS BY VARIOUS 3D METAL STRUCTURES	Anna Dmitruk (Faculty of Mechanical Engineering, Wroclaw University of Science and Technology, Wroclaw, Poland)
									4	a91029	THERMAL ENERGY STORAGE STATION FOR RENEWABLE ENERGY	Toru Okazaki (The Institute of Applied Energy)
									5	a90042	LARGE SCALE ABSORPTION HEAT PUMPS FOR THE WASTE HEAT RECOVERY OF POWER PLANT	Zhenyuan Xu (Institute of Refrigeration and Cryogenics, Shanghai Jiao Tong University, Shanghai 200240, China)
Area XI: Energy Conservation & Heat Pump	Oral Session	O-He-3	Renewable Energy Utilization	20-Jun	10:00 - 11:40	311+312	Satoru Sadohara (Yokohama National University, Japan)	Takashi Ikegami (Tokyo University of Agriculture and Technology, Japan)	1	a90259	A New Design Development of Palisaded Heat Exchanger Combined with Plastic Pipes and the Innovative Application for Heat Recovery of Hot Springs Water	Hiroyasu Shirato (Industrial Technology Research Department, Hokkaido Research Organization, Hokkaido, Japan)
									2	a90729	STUDY ON IMPROVEMENT OF EFFICIENCY OF A HEAT PUMP USING POND WATER AS HEAT SOURCE	Jumpei Hattori (Nagoya University, Faculty of engineering)
									3	a90930	A NEW CONCEPT OF SOLAR PANEL FOR GENERATING POWER AND THERMAL ENERGY WITHOUT WARMING THE AIR	Kohei Terashima (Keio University, Yokohama, Japan)
									4	a90932	A NEW CONCEPT OF TRANSPIRATION COOLING SYSTEM FOR CREATING A COOLING-AIR SOCIETY	Kohei Terashima (Keio University, Yokohama, Japan)
									5	a90974	OPERATION CONTROL OF HYBRID SOLAR HEAT PUMP SYSTEM VIA ENERGY BALANCE LOGIC PROGRAM	Ayush Chaudhary (Dept. of Eng., Graduate School of Integrated Science and Technology, Shizuoka University)
Area XI: Energy Conservation & Heat Pump	Oral Session	O-He-4	Air Conditioning	20-Jun	13:00 - 14:40	311+312	Niccolo Giannetti (Waseda University, Japan)	Takahiko Miyazaki (Kyushu University, Japan)	1	a90130	Introduction of energy saving control valve for HVAC system	Keita Sato (Department of Product Marketing, Azbil Corporation, Japan)
									2	a90298	Investigation on centrifugal heat pump systems with gradual water heating	Bin Hu (Shanghai Jiao Tong University, Shanghai 200240, China)
									3	a90676	POTENCY OF ADSORPTION DEHUMIDIFICATION FOR AIR CONDITIONING SYSTEM USING HONEYCOMB DESICCANT STRUCTURE	INDRI YANINGSIH (Department of Energy and Environmental Engineering, Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Japan)
									4	a90719	STUDY ON ENERGY CONSERVATION FOR DATA CENTER USING ECONOMIZER SYSTEM AND FREE COOLING	Hiroki Emoto (Nagoya University)
									5	a91126	Numerical Solution of Conjugate Natural Convection Heat Transfer Using Localized Radial Basis Function Meshless Method	Agung Tri Wijayanta (Mechanical Engineering, Sebelas Maret University)
Area XI: Energy Conservation & Heat Pump	Oral Session	O-He-5	Energy Conservation	20-Jun	15:00 - 17:00	311+312	Takahiko Miyazaki (Kyushu University, Japan)	Niccolo Giannetti (Waseda University, Japan)	1	a90080	INVESTIGATION OF THE UNIT ENERGY CONSUMPTION FOR INSULATED RESIDENTIAL BUILDINGS IN ULAANBAATAR, MONGOLIA	Bilguun Buyantogtokh (Graduate School of Urban Innovation, Yokohama National University, Japan)
									2	a90844	COMPARATIVE STUDY OF DESICCANT DRYING SYSTEM FOR ENERGY SAVING	SHAZIA HANIF (Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, 6-1 Kasuga-koen, Kasuga-shi, Fukuoka 816-8580, Japan)
									3	a90920	INVESTIGATION ON TRIBOLOGICAL BEHAVIOR OF Al_2O_3 -NANO CUTTING FLUID UNDER MINIMUM QUANTITY LUBRICATION TECHNIQUE	Budi Kristiawan (Mechanical Engineering Department, Faculty of Engineering, Sebelas Maret University Jl. Ir. Sutami 36 A, Surakarta 57126, Indonesia)
									4	a90981	APPLICABILITY STUDY OF PREVIOUS MODELS FOR SEPARATING THE DIFFUSE AND DIRECT COMPONENT OF GLOBAL RADIATION IN LOW LATITUDE REGION	Hayato HOSOBUCHI (Department of Architecture, Aichi Institute of Technology)
									5	a91047	THERMAL-HYDRAULIC PERFORMANCE OF WING INSERT FOR DESIGNING COMPACT TUBULAR HEAT EXCHANGERS	INDRI YANINGSIH (Department of Energy and Environmental Engineering, Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Japan)
									6	a91060	An EXERGY BASED EVALUATION FOR AIMING ENERGY SAVING AND EFFICIENT SOLAR-ENERGY UTILIZATION	Haruki Sato (Department of System Design Engineering, Keio University, Yokohama)

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Area XI: Energy Conservation & Heat Pump	Poster Session	P-He	Energy Utilization	20-Jun	12:00 - 13:00	foyer			1	a90203	A STUDY OF THE INFLUENCE OF CLIMATE CHANGE ON DISTRICT HEATING AND COOLING IN MINATO MIRAI 21	Shunsuke Ito (Department of Urban Innovation, Graduate School of Yokohama National University, Yokohama, Japan)
									2	a90655	EVALUATION OF ENERGY SAVING AND ENVIRONMENTAL POLLUTION REDUCTION BY A CCHP SYSTEM FOR RESIDENTIAL BUILDINGS	Mostafa Shokri (Dept of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran)
									3	a91009	EVALUATION OF TECHNOLOGY SELECTION IN CCHP CONSIDERING GAS ENGINE CHARACTERISTICS	Shuhei Yamano (Tokyo University of Agriculture and Technology)
									4	a90749	THE PROCEDURE OF INFRARED DRONES IN THE BUILDING INDUSTRY OF CHINA	Qiubo Xiao (Sustainable Building and Environmental Research Institute, Northwestern Polytechnical University, Shan, Shaanxi, China)
									5	a90993	Gray - BP Neural Network Prediction of Building Energy Consumption Based on Human Behavior and Thermal Comfort	Xiao Hua Li (Graduate department, Hunan institute of engineering, xiangtan city, China)
									6	a90486	COMPARING MEASURED AND EVALUATED THERMAL ENVIRONMENTAL CONDITIONS IN AN ELDERLY DAYTIME CARE FACILITY COOLED BY A COLD-WATER CIRCULATION TYPE SNOW	Yukari Iino (Institute of Humanities, Social Science and Education, Niigata University, Japan)
									7	a90523	EFFECTS OF A DOUBLE-LAYER PCM SYSTEM ON THERMAL COMFORT AND ENERGY CONSUMPTION OF A RESIDENTIAL BUILDING IN DIFFERENT CLIMATES	Mehdi - Maerefat (Dept. of Mechanical Eng., Tarbiat Modares University, Tehran, Iran)
									8	a90876	FEASIBILITY ANALYSIS OF PHOTOVOLTAIC SYSTEM EQUIPPED WITH AN AQUAPONICS COMBINED WITH OPEN CULTURE ADAPTING TO ARID REGION	Kotaro Tagawa (Faculty of Agriculture, Tottori University, Tottori, Japan)
									9	a90140	GAUSSIAN PROCESS REGRESSION OF ELECTRON-PHONON COUPLING MATRIX ELEMENTS WITH APPLICATIONS IN THERMOELECTRIC MATERIALS RESEARCH	Jeeyoung Kim (Department of Environmental Science and Engineering, Ewha Womans University, Seoul, Republic of Korea)
									10	a90549	RESEARCH ON CAPILLARY RADIANT HEATING SYSTEM BASED ON SOLAR ENERGY AND HEAT PUMP	Zanshe Wang (School of Human Settlement and Civil Engineering, Xi'an Jiaotong University, Xi'an, China)
									11	b90049	Study on high efficiency of plant system at low load by change of chilled water supply temperature in existing district heating and cooling	Shun Yoshida (Graduate student, Kogakuin University, Tokyo, Japan)
									12	b90043	HIGH-TEMPERATURE MECHANICAL BEHAVIORS OF CERAMIC CORE FOR DIRECTIONAL SOLIDIFICATION OF TURBINE BLADES	Zilin Xu (School of Materials Science and Engineering, Tsinghua University, Beijing 100084, China)