

Area Name	Session Class	Session No.	Session Name	Date	Time	Room	Chair1	Chair2	ID No.	Abstract Title	First Author	
Area III: Solar Thermal Applications	Oral Session	O-St-1	Solar thermal collector 1	19-Jun	13:15 - 14:30	315	Mika Yoshinaga (Meijo University, Japan)	Zandargiraa Erdenesuren (National University of Mongolia)	1	a90599	EXERGETIC OPTIMIZATION OF THERMOSYPHON SOLAR HOT WATER SYSTEM	Muhammad Faisal Hasan (Interdisciplinary Graduate School of Engineering Sciences, Kyushu University,6-1 Kasuga-koen, Kasuga, Fukuoka 816-8580, Japan)
									2	a90826	SOLAR IRRADIATION TIME-SERIES DATA WITH HIGH SPATIAL RESOLUTION TO EVALUATE SOLAR THERMAL UTILIZATION TECHNOLOGY	Ryusuke Sugimoto (Tokyo University of Agriculture and Technology, Tokyo, Japan)
									3	a90350	COMPARISON OF A PV/CSP HYBRID USING WAVELENGTH SELECTIVE FILM WITH PURE PV AND CSP	Nicholas Jih Yih Liew (Department of Mechanical Engineering, Kookmin University)
									4	a91124	STUDY ON INDOOR THERMAL ENVIRONMENT OF SOLAR HEAT UTILIZATION HOUSE	Yuko Kuma (Department of Information Science, Shonan Institute of Technology, Kanagawa, Japan)
									5	a90999	MONTE CARLO-RAYTRACING SIMULATION OF A TWO-STAGE SOLAR CONCENTRATOR MODULE	Seung Jin Oh (King Abdullah University of Science & Technology(KAUST))
Area III: Solar Thermal Applications	Invited Lecture	IL-St	Keynote Lecture	19-Jun	14:45 - 15:15	315	Atsushi Akisawa (Tokyo Univ of Agriculture and Technology, Japan)		1	Invited3-1	Solar heating and cooling: Current state in China and perspectives	Wang Ruzhu (Shanghai Jiao Tong University)
Area III: Solar Thermal Applications	Oral Session	O-St-2	Solar cooling	19-Jun	15:30 - 17:00	315	Nobuya Nishimura (Osaka City University, Japan)	Ruzhu Wang (Shanghai Jiao Tong University, China)	1	a90458	IMPROVEMENT OF SOLAR CHEMICAL HEAT PUMP PERFORMANCE FOR REFRIGERATION/COOLING/HEATING	Hironao Ogura (Graduate School of Engineering, Chiba University, Japan)
									2	a90692	MODELLING OF WATER VAPOR ABSORPTION BY AQUEOUS IONIC LIQUID FLUIDS IN A VERTICAL-TUBE FALLING FILM ABSORBER	Hifni Mukhtar Ariyadi (Department of Applied Mechanics and Aerospace Engineering, Waseda University, Tokyo, Japan)
									3	a90925	THEORETICAL AND EXPERIMENTAL INVESTIGATION ON PTC-DRIVEN GAX-BASED ABSORPTION HEAT PUMP UNDER TYPICAL WINTER DAY	Enqian Dai (Research Center of Solar Power and Refrigeration, Shanghai Jiao Tong University, Shanghai, China)
									4	a90433	INTELLIGENT ROOF SYSTEM TO REDUCE HEAT LOAD UTILIZING RENEWABLE ENERGY	Haksung Lee (Graduate School of Human-Environment Studies, Kyushu University, Japan)
									5	a90623	PERFORMANCE AND ECONOMIC STUDY WITH COMPARATIVE ANALYSIS OF SOLAR THERMAL COOLING AND SOLAR PHOTOVOLTAIC COOLING SYSTEMS FOR HOSPITALS IN SENEGAL	Thiomy TINE (Mechanical Engineering, Shibaura Institute of Technology, Tokyo, Japan)
									6	a91135	ASSESSMENT OF A COMPRESSION/ABSORPTION HEAT PUMP COUPLED WITH PHOTOVOLTAIC-THERMAL COLLECTORS	Francesco Tariello (Department of Engineering, University of Sannio, Benevento, Italy)
Area III: Solar Thermal Applications	Oral Session	O-St-3	Solar thermal collector 2	20-Jun	9:00 - 10:15	315	Noboru Yamada (Nagaoka University of Technology, Japan)	Sasso Maurizio (University of Sannio, Italy)	1	a90084	NUMERICAL SIMULATION OF SOLAR WALLS WITH ENERGY PERFORMANCE ANALYSIS	Qingsong Ma (Department of Architecture, The University of Kitakyushu, Kitakyushu, Japan)
									2	a90418	RESEARCH AND DEVELOPMENT ON THE SOLAR AIR HEATER	Zandargiraa Avarga Erdenesuren (National University of Mongolia)
									3	a90779	EXPERIMENTAL AND SIMULATION RESEARCH ON ALUMINUM HONEYCOMB SOLAR AIR HEATERS	meng xian hong (Department of Energy and Environmental Engineering, Kyushu University, Fukuoka, Japan)
									4	a90414	MODELING AND CLEANING OF DUST DEPOSITION ON GLASS TUBE OF EVACUATED SOLAR THERMAL COLLECTORS	Purevdalai Erdenedavaa (Graduate school of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology, Tokyo, Japan)
									5	a90478	PERFORMANCE OF SOLAR COLLECTORS UNDER MONGOLIAN CLIMATIC CONDITIONS: COMPARISON BETWEEN EXPERIMENTAL AND PRELIMINARY SIMULATION RESULTS	Purevdalai Erdenedavaa (Graduate school of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology, Tokyo, Japan)
Area III: Solar Thermal Applications	Oral Session	O-St-4	Energy storage and desalination 1	20-Jun	10:30 - 11:15	315	Kotaro Tanaka (Shibaura Institute of Technology, Japan)	Garam Lee (Korea Institute of Machinery & Materials, Korea)	1	a90018	EXPERIMENTAL STRATIFICATION ANALYSIS OF THREE SENSIBLE HEAT STORAGE SYSTEMS DURING CHARGING	Ashmore Mawire (Department of Physics and Electronics, North West University, Private Bag X2046, Mmabatho 2735, South Africa)
									2	a90327	COMPARATIVE INVESTIGATION OF THERMAL PROPERTIES OF TiO ₂ , CuO AND GO NANOPARTICLES IMPREGNATED IN PARAFFIN FOR HEAT STORAGE APPLICATIONS	Dsilva Winfred Rufuss D (Institute for Energy Studies, Department of Mechanical Engineering, Anna University, Chennai-600025, Tamil Nadu, India)
									3	a90339	EXPERIMENTAL ANALYSIS OF A SIMPLE THERMO-CHEMICAL ENERGY STORAGE SYSTEM	Aravindan J (Institute for Energy Studies, Anna University, Chennai-600025, India)
Area III: Solar Thermal Applications	Oral Session	O-St-5	Energy storage and desalination 2	20-Jun	11:20 - 12:05	315	Jun-ichi Ryu (Chiba University, Japan)	Ashmore Mawire (North West University, South Africa)	1	a91065	Performance Evaluation of Solid-Solid Phase Change Material on Solar Thermal Energy Storage and Temperature Regulation	Daisuke Sato (Department of Mechanical Engineering, Nagaoka University of Technology, Japan)
									2	a90475	DEVELOPMENT OF WICK-LESS PLATE FOR APPLICATION TO MULTI-EFFECT SOLAR STILL	Garam Lee (Department of Plant Safety Technology, Korea Institute of Machinery & Materials, Deajeon, Korea.)
									3	a91123	RENEWABLE ENERGY STORAGE & DESALINATION: A 24 HOURS OPERATION SOLUTION	Muhammad Wakil Shahzad (Water Desalination & Reuse Center (WDRC), King Abdullah University of Science & Technology (KAUST).)
Area III: Solar Thermal Applications	Poster Session	P-St	Solar Thermal Applications	20-Jun	13:30 - 15:30	foyer			1	a90033	Solar Heat Collection by Roof Photovoltaic System Integrated with Solar Air Heater in Northern Regions	Yasutomi MIKI (Kitami Institute of Technolgy, Kitami, Hokkaido, Japan)
									2	a90382	FIELD TESTS AND SIMULATION ANALYSIS OF THERMOSYPHONIC SOLAR WATER HEATERS	Mika Yoshinaga (Department of Architecture, Meijo University, Nagoya, Japan)
									3	a90577	PERFORMANCE OF COMBINED SYSTEMS WITH HEATPUMP AND SOLAR COLLECTORS	Kosaku Shirode (Japan Solar System Development Association, Tokyo, Japan)
									4	a90585	THE DEVELOPMENT OF A NEW EVACUATED TUBE SOLAR COLLECTOR AND SYSTEM WITH NATURAL CIRCULATION	Namchoon Baek (New & Renewable Energy Research Division, KoreaKorea Institute of Energy Research, Daejeon, Korea)

Area Name	Session Class	Session No.	Session Name	Date	Time	Room	Chair1	Chair2	ID No.	Abstract Title	First Author	
									5	a90994	STUDY ON STRUCTURAL OPTIMIZATION OF PV/T USING FLAT HEAT PIPE	Hironobu Matsuo (Dept. of Eng., Graduate School of Integrated Science and Technology, Shizuoka University, Japan)
									6	a91104	Feasibility study of low-concentration CPV/T module for sunlight sharing applications	Yoshitaka Hayakawa (Department of Science of Technology Innovation, Nagaoka University of Technology, Niigata, Japan)
									7	a91152	CO2 REDUCTION POTENTIAL OF RESIDENTIAL SOLAR WATER HEATING SYSTEMS IN JAPAN	Hiroki Hondo (Yokohama National University, Yokohama, Japan)
									8	a91089	IMPROVEMENT OF THERMAL PERFORMANCE OF A COUPLING HOT WATER- DRIVEN AND GAS FIRED-DRIVEN ABSORPTION AIR CONDITIONING SYSTEM BY BOTH USING SOLAR ENERGY AND GAS	Nobuya NISHIMURA (Department of Mechanical Engineering, Osaka City University, Osaka, Japan)
									9	a91101	COMPARISON OF ANNUAL COOLING AND HEATING SUPPLY ENERGY FROM ADSORPTION REFRIGERATION AND HEAT PUMP SYSTEM DRIVEN BY SOLAR THERMAL ENERGY BETWEEN FAM-Z01 AND Z02	Yoshinori Hamamoto (Department of Mechanical Engineering, Kyushu University, Fukuoka, Japan)
									10	a91132	Design and performance predictions of 10 kW AHP using natural mesoporous materials with LiCl	Katsunori Nagano (Hokkaido University, Sapporo, Japan)
									11	b90023	EXPERIMENTAL ASSESSMENT OF A SOLAR ABSORPTION SYSTEM FOR AIR CONDITIONING OR COOLING APPLICATIONS	JOSE CAMILO JIMENEZ GARCIA (INSTITUTO DE ENERGIAS RENOVABLES, UNAM)
									12	b90030	PRELIMINARY ASSESSMENT OF AN AIR COOLED SOLAR ABSORPTION AIR CONDITIONING SYSTEM OPERATING WITH AMMONIA-LITHIUM NITRATE MIXTURE	Pedro Arturo Soto Parra (Instituto de Energias Renovables of UNAM)
									13	b90035	TRACKING BEHAVIOR SIMULATION OF AN ELEVATION/FRESNEL HELIOSTAT ARRAY	Isaias Moreno-Cruz (Instituto de Energias Renovables, UNAM)
									14	a90439	PROPOSAL OF SUNLIGHT ILLUMINATION SYSTEM USING OPTICAL FIBER BY ELECTROWETTING PHENOMENON	Yusei Nakagawa (Shibaura Institute of Technology)
									15	a91001	DEHYDRATION AND HYDRATION REACTIVITY OF Li-COMPOUND ADDED Ca(OH)_2 FOR THERMO-CHEMICAL ENERGY STORAGE	Aya Maruyama (Department of Urban Environment Systems, Chiba University)
									16	a91064	CALCIUM HYDROXIDE NANOMATERIALS FOR THERMO-CHEMICAL ENERGY STORAGE: EFFECT OF MORPHOLOGY AND POROSITY	Min Xu (Institute of Engineering Thermophysics, Chinese Academy of Sciences, Beijing, China)
									17	a91133	MAGNETITE VERSUS QUARTZITE: POTENTIAL CANDIDATES FOR THERMAL ENERGY STORAGE	Yousra FILALI BABA (Department of Energy, ENSAM Meknes, Meknes, Morocco)
									18	b90052	Dehydration and Hydration Reactivity of Citrate-Added Mg(OH)_2 for Thermo-chemical Energy Storage	Kouki SAITOU (Department of Urban Environment Systems, Chiba University, Chiba, Japan)
									19	b90062	PARAMETRIC STUDY ON THE SIZE OF SHORT-TERM STORAGE TANK FOR A SEASONAL BOREHOLE THERMAL ENERGY STORAGE	Wonuk Kim (Department of Living and Built Environment Research, Korea Institute of Civil Engineering and Building Technology, Gwangju, Korea)
									20	a90309	STUDY FOR BASIS OF THERMAL OPERATED SMART WINDOWS USING TEMPERATURE DEPENDENT CHOLESTERIC LIQUID CRYSTALS	Akifumi Ogiwara (Department of Electronic Engineering, Kobe City College of Technology)
									21	a90550	EXPERIMENTAL COMPARISON OF SOLAR DISTILLERS OPERATING WITH SOLAR AND WASTE HEAT	Chang-Dae Park (Korea Institute of Machinery & Materials, Daejeon, Korea)