

Area Name	Session Class	Session No.	Session Name	Date	Time	Room	Chair1	Chair2	ID No.	Abstract Title	First Author	
Area II: Photovoltaic	Oral Session	O-Pv-1	DSC and PSC 1	20-Jun	9:00 - 10:45	301	Tutomu Miyasaka (Toin University of Yokohama, Japan)	Luis Ono (OIST, Japan)	1	a90812	EFFECTS OF PARTICLE POROSITY OF TiO ₂ NANOPARTICLES ON THE PHOTOVOLTAIC PERFORMANCE OF DYE-SENSITIZED SOLAR CELLS	Ji Young Ahn (Pusan National University, Pusan, Republic of Korea)
									2	a91107	EFFECTS OF ENERGY LEVEL ALIGNMENT OF ELECTRON SELECTION LAYER ON CHARGE TRANSFER DYNAMICS AND PHOTOVOLTAIC PROPERTIES OF PEROVSKITE SOLAR CELLS	Qing Shen (Faculty of Informatics and Engineering, The University of Electro-Communications)
									3	a90105	EVALUATING THE PERFORMANCE OF MAGNESIUM-DOPED SnO ₂ COMPACT LAYER IN PLANAR PEROVSKITE SOLAR CELLS	Muhammad Akmal Kamarudin (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology, Japan)
									4	a90508	ENGINEERING OF NICKEL OXIDE HOLE TRANSPORT LAYER FOR INVERTED PEROVSKITE SOLAR CELL	Naoyuki Shibayama (Department of Materials and Synchrotron Radiation Engineering, University of Hyogo, Himeji, Japan)
									5	a90895	Pb free perovskite solar cells consisting of Sn perovskite	Shuzi Hayase (Kyushu Institute of Technology)
									6	a91066	Development of Tin-based Perovskites and the Effect of Additives for Photovoltaic Applications	Eric Wei-Guang Diao (Department of Applied Chemistry and Institute of Molecular Science, National Chiao Tung University, Hsinchu, Taiwan)
									7	a90451	HIGHER CONDUCTION BAND OFFSET LEADING TO IMPROVEMENT IN PERFORMANCE OF TIN-LEAD ALLOYED PEROVSKITE SOLAR CELLS	Gaurav Kapil (The University of Tokyo)
Area II: Photovoltaic	Oral Session	O-Pv-2	PSC 2	20-Jun	11:00 - 12:15	301	Hiroshi Segawa (The University of Tokyo, Japan)	Manabu Sugimoto (Kumamoto University, Japan)	1	Invited2-1	The rise of efficient and perovskite solar cells	Song Il Seok (Ulsan National Institute of Science and Technology)
									2	a90848	HYSTERESIS-FREE PEROVSKITE SOLAR CELLS MADE OF POTASSIUM-DOPED ORGANOMETAL HALIDE PEROVSKITE	Takeru Bessho (Research Center for Advanced Science and Technology (RCAST), The University of Tokyo, Tokyo, Japan)
									3	a90683	CH ₃ NH ₃ I TREATMENT OF ORGANIC-INORGANIC PEROVSKITE CRYSTALS FOR HIGH EFFICIENCY SOLAR CELLS	Atsushi Kogo (National Institute of Advanced Industrial Science and Technology (AIST), Ibaraki, Japan)
									4	a91008	PEROVSKITE SOLAR CELLS WITH MULTIPLE BANDGAP STRUCTURE PREPARED BY ADVANCED 3-STEP METHOD USING HC(NH ₂) ₂ SPIN-COATING	Yuji Okamoto (Graduate School of Pure and Applied Sciences, University of Tsukuba, Tsukuba, Japan)
Area II: Photovoltaic	Oral Session	O-Pv-3	PSC 3	20-Jun	13:30 - 15:00	301	Shuzi Hayase (Kyushu Inst. Tech., Japan)	Eric Diao (National Chiao Tung University, Taiwan)	1	a90610	FABRICATION OF CH ₃ NH ₃ PbI ₃ POLYCRYSTALLINE THIN FILMS BY VACUUM DEPOSITION USING GAS SOURCES	Yuiga Nakamura (Department of Materials Engineering, The University of Tokyo, Tokyo, Japan)
									2	a90693	Microstructural investigation of organometal halide perovskite solar cell: self-organized superlattices and phase coexistence	Tae Woong Kim (The University of Tokyo)
									3	a91102	IN-SILICO MODELING OF MATERIALS IN PEROVSKITE SOLAR CELLS: TOWARD THEIR OPTIMIZATION	Manabu Sugimoto (Faculty of Advanced Science and Technology, Kumamoto University, Kumamoto, Japan)
									4	a91034	Voltage Loss in Organic-Inorganic Perovskite Solar Cells	Hyungdo Kim (Department of Polymer Chemistry, Kyoto University, Kyoto, Japan)
									5	a90912	Stable high efficiency of perovskite solar cells fabricated under ambient air conditions	Tutomu Miyasaka (Toin University of Yokohama, Yokohama, Japan)
									6	a90053	UP-SCALING OF ORGANIC-INORGANIC HYBRID PEROVSKITE SOLAR CELLS AND MODULES	Luis Katsuya Ono (Energy Materials and Surface Sciences Unit, Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan)
Area II: Photovoltaic	Oral Session	O-Pv-4	Module Reliability	20-Jun	15:30 - 16:30	301	Yuzuru Ueda (Tokyo University of Science, Japan)	Kenji Itaka (Hiroaki University, Japan)	1	a90278	ANNUAL DEGRADATION RATES ESTIMATED FROM OUTDOOR AND INDOOR PERFORMANCE UNDER STC	Tetsuyuki Ishii (Central Research Institute of Electric Power Industry)
									2	a91162	BEHAVIOR OF FAILED PV MODULES UNDER DIFFERENT OPERATING TEMPERATURES	Takumi Takashima (National Institute of Advanced Industrial Science and Technology (AIST), Japan)
									3	a90436	LONG TERM RELIABILITY OF ANTIREFLECTIVE SILICA-BASED COATING ON CIGS PHOTOVOLTAIC MODULE	So Pyay Moe (Graduate School of Engineering, University of Miyazaki, Japan)
									4	a90931	DEGRADATION RELATED TO THE INTERCONNECTOR FOR CRYSTALLINE SILICON PV MODULES BY ACCELERATION TESTS	Yuji Ino (Fukushima Renewable Energy Institute, AIST, Fukushima, Japan)
Area II: Photovoltaic	Oral Session	O-Pv-5	PV System 1	21-Jun	9:00 - 10:15	301	Kenji Araki (Toyota Technological Institute, Japan)	TBD	1	a90315	WIND RESISTANCE TEST FOR PHOTOVOLTAIC ARRAY FRAME USING LARGE AIR PRESSURE CHAMBER	Yasuhiro MAEDA (Okujikensan Corporation, Osaka, Japan)
									2	a90318	RAPID VARIATIONS OF IRRADIANCE AND STRING POWER MEASURED IN MEGA-WATT SOLAR POWER PLANT	Shigeomi Hara (Department of Electrical and Electronic Engineering, Saga University, Saga, Japan)
									3	a90552	A NOVEL MPPT METHOD FOR EFFICIENCY IMPROVEMENT OF PARTIALLY SHADED PV GENERATION SYSTEM	SHUAI YANG (Department of Electrical and Electronic Engineering, Kanagawa Institute of Technology, Kanagawa, Japan)
									4	a90372	A STRATEGIC BIDDING FRAMEWORK DESIGN WITH CHOICE THEORY UNDER PV UNCERTAINTY	Bo Tu (Department of Systems and Control Engineering, Tokyo Institute of Technology, Tokyo, Japan)
									5	a90579	Best Practices For The Architectural Design Of Building-Integrated Photovoltaics In Europe	Tjerk Reijenga (BEAR-iD, Gouda (The Netherlands), Shanghai (China))

GRE2018 Preliminary Program

*presentation numbers will be assigned later in the final program

Area Name	Session Class	Session No.	Session Name	Date	Time	Room	Chair1	Chair2	ID No.	Abstract Title	First Author	
Area II: Photovoltaic	Oral Session	O-Pv-6	PV System 2	21-Jun	10:45 - 12:00	301	Shigeomi Hara (Saga University, Japan)	Jose Po (EKO Instruments, Netherlands)	1	b90070	MLPE for Megawatt Scale PV Projects	Ken Nagasawa (SolarEdge Technologies)
									2	a90942	STRING FAILURE DETECTION FOR LARGE SCALE PHOTOVOLTAIC SYSTEM BY USING NAMEPLATE VALUE AND MEASURED STRING CURRENT AND MODULE VOLTAGE	Tomoka Uchiyama (Department of Electrical Engineering, Tokyo University of Science, Japan)
									3	a91156	TOWARD STANDARDIZATION OF SOLAR TRACKERS, CONCENTRATOR PV, AND CAR -ROOF PV	Kenji Araki (Toyota Technological Institute, Japan)
									4	a91158	BREAKING THE LIMIT OF THE ACCEPTANCE ANGLE OF THE SOLARCONCENTRATORS WITHIN THE 2ND LAW OF THERMODYNAMICS	Akihiro Abe (Department of Mechanical Engineering ,Nagaoka University of Technology, JAPAN)
									5	a91083	IEA PVPS Task14 Activities: Survey and case studies of transmission level PV integration assessments	Koichi Asano (Institute of Industrial Science, The University of Tokyo, Tokyo, Japan)
Area II: Photovoltaic	Oral Session	O-Pv-7	PV System 3	21-Jun	13:30 - 14:45	301	Yuzuru Ueda (Tokyo University of Science, Japan)	Joao Gari da Silva Junior Fonseca (The University of Tokyo)	1	Invited2-3	Rapid growth and remaining challenges for solar photovoltaic technology	Sarah Kurtz (NREL)
									2	a90116	How does R&D on the car-roof PV impact to the entire PV technologies?	Kenji Araki (Toyota Technological Institute)
									3	a90322	Effective Utilization Method of Solar Energy by Using Electric Vehicle	Yoshiki Tomura (Department of Information Engineering, Okayama Prefectural University)
									4	a91134	INTEGRATING MORE SOLAR WITH SMART INVERTERS	Benjamin Kroposki (National Renewable Energy Laboratory)
Area II: Photovoltaic	Oral Session	O-Pv-8	PV Forecasting	21-Jun	15:00 - 16:45	301	Shinichiro Oke (National Institute of Technology, Tsuyama College)	Ken Nagasawa (SolarEdge Technologies)	1	a90171	PV POWER RAMPANALYSIS USING SATELLITE-DERIVED SOLAR RADIATION	Hideaki Ohtake (National Institute of Advanced Industrial Science and Technology (AIST), Ibaraki, JAPAN)
									2	a90180	Evaluation of the Interannual Accuracy of Day-ahead Forecasts of Solar Irradiation for Kyushu in Japan	Joao Gari da Silva Fonseca Junior (Ogimoto Laboratory, Institute of Industrial Science, The University of Tokyo, Tokyo, Japan)
									3	a90504	DEVELOPMENT OF A MODEL TO ESTIMATE SOLAR POWER GENERATION OUTPUT BASED ON WEATHER FORECAST INFORMATION	Markus Daniel Stemmer (Department of Electrical Engineering and Information Systems, The University of Tokyo, Tokyo, Japan)
									4	a90576	CAN PHOTOVOLTAICS ALONE BE USED FOR SOLAR POWER FORECASTING?	Alexandros George Charalambides (Cyprus University of Technology)
									5	a90742	Forecasting system using actual Multipoint PV output	Yosui Miyazaki (Tokyo University of Science, Chiba, Japan)
									6	a90860	STUDY AND DEVELOPMENT OF A SOLAR RADIATION PREDICTING ALGORITHM BASED ON ECMWF'S FORECASTS AND ANNS	Sara Pereira (Institute of Earth Sciences, University of Evora)
									7	a90704	Development of the Sunlight Simulation Program for Solar Sharing with Agriculture	Kenji Itaka (NJRIS, Hirosaki University, Aomori, 030-0813 Japan)

Area Name	Session Class	Session No.	Session Name	Date	Time	Room	Chair1	Chair2	ID No.	Abstract Title	First Author	
Area II: Photovoltaic	Oral Session	O-Pv-9	CPV, Multijunction and New Concept	22-Jun	9:00 - 10:30	301	Kensuke Nishioka (University of Miyazaki, Japan)	Thipwan Fangsuwannarak (Suranaree University of	1	a90636	SOLAR POWER FOR MARINE PROPULSION – WILL IT EVER BECOME A REALITY?	Chilukuri Maheshwar (Anglo Eastern Maritime Academy, Karjat, Mumbai, INDIA)
									2	a90431	HIGH EFFICIENCY SOLAR TO GAS CONVERSION SYSTEM USING CONCENTRATOR PHOTOVOLTAIC AND ELECTROCHEMICAL CELL	Soe Htet Wai (Graduate School of Engineering, University of Miyazaki, Japan)
									3	a91157	SUPER-MULTIJUNCTION CELL, A NEW SOLAR CELL OVERCOMING THE SPECTRUM LOSS OF MULTIJUNCTION CELLS	Kenji Araki (Toyota Technological Institute)
									4	b90016	A Plastic Integrated Micro CPV Module: PIC with Induction Heating Technology	Michihiko Takase (Special Project Office, Production Engineering Center, Connected Solutions Company, Panasonic Corporation)
									5	a90631	GROWTH, STRUCTURAL AND OPTICAL ANALYSIS OF MO DOPED CUGAS ₂ THIN FILMS BY SPRAY PYROLYSIS	SIVAPERUMAN KALAINATHAN (CENTRE FOR CRYSTAL GROWTH, VIT, Vellore, India)
									6	a90223	ENHANCEMENT OF LIGHT TRAPPING IN THIN-FILM GAAS SOLAR CELLS BY FLATTENED LIGHT SCATTERING SUBSTRATES	Hitoshi Sai (AIST, Japan)
Area II: Photovoltaic	Oral Session	O-Pv-10	Silicon Technologies	22-Jun	10:45 - 12:00	301	Hithoshi Sai (AIST, Japan)	TBD	1	a90088	EFFECT OF NOVEL SUB-MICRON STRUCTURE FABRICATED ONTO CRYSTALLINE SILICON ON OPTICAL PROPERTIES AND MINORITY CARRIER LIFETIME	Miki Sei (Graduate School of Engineering, Nagoya University, Japan)
									2	a90355	Impact of laser scan speed on grain structure and electrical properties of laser induced liquid-phase-crystallized silicon thin films for solar cell applications	Hiroshi Umishio (Research Center for Photovoltaics, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Ibaraki, Japan)
									3	a90141	The impact of diamond-wire diameter on the fracture strength of thick and thin (210 - 120 μm) silicon wafers for PV use	Halubai Sekhar (Renewable Energy Research Center, Fukushima Renewable Energy Institute (AIST), Japan)
									4	a90730	SELECTIVE EMITTER N-PERT SOLAR CELL USING NON MASS SEPARATION TYPE ION IMPLANTATION	Kyotaro Nakamura (Meiji University, Kawasaki, Japan)
									5	b90055	THE FUTURE DIRECTION OF PV INDUSTRY:HIGH EFFICIENCY, HIGH RELIABILITY AND HIGH VALUE	Jun Lv (LONGi Solar Technology Co., Ltd.)
Area II: Photovoltaic	Poster Session	P-Pv-1	Photovoltaics-1; PSC, DSC and OPV	20-Jun	16:45 - 17:45	foyer			1	a90731	DYE-SENSITIZED SOLAR CELLS BASED ON ELECTROLYTE SOLUTION CONTAINING A SMALL MOLECULAR GELLING AGENT	Yuji Hirose (Graduate School of Engineering, Chiba University, Chiba, Japan)
									2	a91130	Verification test of Emergency Self Emitting Guide Device Using the Organic Solar Cells	Masahide Kawaraya (Mikuni Color Ltd.)
									3	a90949	EXPLORING NEW APPLICATIONS OF FUTURE ORGANIC PV IN NON-ELECTRIFIED AREAS	Hiroshi Zenitani (Graduate school of Engineering, Hiroshima University, Hiroshima, Japan)
									4	a91163	PHOTOELECTRONIC PROPERTIES OF THIOPHENE-VINYLENE DERIVATIVES FLANKED WITH PHTHALIMIDE GROUPS	Hiroyuki Mochizuki (RCPVT AIST, Japan)
									5	a90736	OPTIMIZATION OF PERFORMANCE EVALUATION METHOD FOR PEROVSKITE SOLAR CELL	Hidenori Saito (Kanagawa Institute of Industrial Science and Technology (KISTEC))
									6	a90834	Study on Development of Evaluation Methods of Perovskite Solar Cells	Daisuke Aoki (Kanagawa Institute of Industrial Science and Technology)
									7	a90308	LOW-ILLUMINANCE CHARACTERISTICS OF TRIPLE CATION PEROVSKITE SOLAR CELLS	Itaru Raifuku (Graduate school of materials science, Nara institute of science and technology, Nara, Japan)
									8	a90733	HYSTERESIS-LESS MESOPOROUS TIO ₂ PEROVSKITE SOLAR CELLS BY INTRODUCING SILVER NANOWIRES TO ENHANCED ELECTRONIC PROPERTIES	Ching-Chang Lin (Functional Thin Films Team, Research Center for Photovoltaics, National Institute of Advanced Industrial Science and Technology, Japan)
									9	a90835	DEVELOPMENT OF LARGE SIZEPEROVSKITE SOLAR CELLS FABRICATION TECHNIQUE BY SPRAY COATING	Shoichi DOI (Innovation Center, AISIN Seiki Co.,LTD, Kariya, Japan)
									10	a90913	Crystallization for Organic-inorganic Hybrid Lead Halide Perovskite Solar Cells by Interfacial Microwave Heating towards High Efficiency and High Through-out Process	Yuji Wada (School of Materials and Chemical Technology, Tokyo Institute of Technology)
									11	a90946	ANALYSIS OF POTENTIAL DISTRIBUTION TO REDUCE CARRIER RECOMBINATION IN CH ₃ NH ₃ PBI ₃ BASED SOLAR CELLS BY DEVICE SIMULATAION	Takashi Minemoto (Department of Electrical and Electronic Engineering, Ritsumeikan University, Shiga, Japan)
									12	a90939	MICRO-SCALE CURRENT PATH DISTRIBUTION OF SNO ₂ :F TRANSPARENT ELECTRODE AND ZnO BASED ELECTRON TRANSPORT LAYER IN PEROVSKITE SOLAR CELLS	Takashi Minemoto (Department of Electrical and Electronic Engineering, Ritsumeikan University, Shiga, Japan)
									13	a90956	ENVIRONMENTAL STABILITY OF PEROVSKITE SOLAR CELLS: EFFECTS OF OXYGENE AND HUMIDITY UNDER 1 SUN	Said KAZAOUI (National Institute of Advanced Industrial Science and Technology (AIST) Research Center for Photovoltaics (RCPV))
									14	a91074	INFLUENCE OF SURFACE SHAPE OF SILICON SOLAR CELL USED IN THE PEROVSKITE/SILICON TANDEM SOLAR CELL ON PERFORMANCE	Yuya Nakazawa (University of Hyogo, Hyogo, Japan)
									15	a91077	OPTIMIZATION OF FILM THICKNESS OF COMPACT AND MESOPOROUS TIO ₂ LAYER USED FOR PEROVSKITE SOLAR CELLS	Hidetaka Sugita (Department of Engineering, University of Hyogo, Hyogo Japan)
									16	a91087	RELATIVE-STRAIN IN PEROVSKITE CRYSTALS PREPARED ON ZnO SINGLE CRYSTAL SUBSTRATES	Daisuke Hirotani (Kyushu Institute of Technology)

Area Name	Session Class	Session No.	Session Name	Date	Time	Room	Chair1	Chair2	ID No.	Abstract Title	First Author	
									17	a91147	First-principles study of Structural stability of Perovskite and related materials for Solar Cells	Satoshi Iikubo (Kyushu Institute of Technology, Fukuoka, Japan)
									18	a90616	PEROVSKITE LAYERS FORMED WITH FUNCTIONAL POLYMERS AS ASCAFFOLD AND THEIR PHOTOVOLTAIC CHARACTERISTICS	Koki Suwa (Department of Applied Science and Engineering, Waseda University, Tokyo, Japan)
									19	a91109	Theoretical Study of the cation effects on the Band-gap of Cubic Lead Triiodide Perovskite Materials	Ryota Jono (Research Center for Advanced Science and Technology, The University of Tokyo, Japan)
Area II: Photovoltaic	Poster Session	P-Pv-2	Photovoltaics-2	21-Jun	17:00 - 18:00	foyer			1	a90066	INDOOR AND OUTDOOR PERFORMANCE MEASUREMENT OF InGaP/Si SPECTRUM SPLITTING SOLAR CELLS	Makoto Konagai (Advanced Research Laboratories, Tokyo City University)
									2	a90532	TRANSPARENT AND CONDUCTIVE LAYERS USED FOR REDUCING OPTICAL REFLECTION LOSS FOR FABRICATING MECHANICALLY STACKED MULTI-JUNCTION SOLAR CELLS	Masahiko Hasumi (Tokyo University of Agriculture and Technology, Japan)
									3	a90530	REDUCTION IN CONNECTING RESISTIVITY OF INTERMEDIATE ADHESIVE LAYER FOR MECHANICALLY STACKED MULTI-JUNCTION SOLAR CELLS	Toshiyuki Sameshima (Tokyo University of Agriculture and Technology)
									4	a90166	High-efficiency and Low-cost Multi-junction Solar Cells with GaAs Multi-stacked Structure	Takashi Nakamoto (Tokyo City University, Tokyo, Japan)
									5	a90162	ATOMIC ORDERING EFFECT ON THE CELL PERFORMANCE OF InGaP/GaAs DUAL-JUNCTION SOLAR CELLS GROWN BY SOLID-SOURCE MBE	Ryuji Oshima (National Institute of Advanced Industrial Science and Technology, Ibaraki, Japan)
									6	a91038	CHARACTERIZATION OF CdS/Cu ₂ Zn(Sn,Ge)Se ₄ HETEROINTERFACE	Takehiko Nagai (Research Center for Photovoltaics(RCPV), National Institute of Advanced Industrial Science and Technology (AIST), Ibaraki, Japan)
									7	a91129	INFLUENCE OF CdS THICKNESS ON THE PHOTOVOLTAIC PROPERTY OF Cu(In,Ga)Se ₂ SOLAR CELLS FABRICATED BY THREE STAGE PROCESS WITH KE-PDT	Yukiko Kamikawa (National Institute of Advanced Industrial Science and Technology)
									8	a91125	DRY HEAT TESTING UNDER LIGHT IRRADIATION OF CIGS SOLAR CELLS	Yukiko Kamikawa (National Institute of Advanced Industrial Science and Technology)
									9	a90870	NAF INCORPORATION EFFECT ON MORPHOLOGY AND PHOTOVOLTAIC PROPERTIES OF CU ₂ ZNSN ₄	Hitoshi Tampo (National Institute of Advanced Science and Technology)
									10	a90378	Reduced recombination in a surface-sulfurized Cu(InGa)Se ₂ thin-film solar cell	Shinho Kim (Research Center for Photovoltaics, National Institute of Advanced Industrial Science and Technology)
									11	a90697	CuGaS ₂ thin films deposited by magnetron sputtering	Nazmul Ahsan (Research Center for advanced Science and Technology (RCAT), The University of Tokyo)
									12	a90894	PROPOSAL OF AN IMPROVED CZOCHRALSKI GROWTH TECHNIQUE OF SILICON CRYSTALS FOR HIGH-EFFICIENCY PV CELLS	Tetsuo Fukuda (Renewable Energy Research Center, AIST)
									13	a91097	High-quality ingot production improvement in the large-diameter continuous-growth on CZ	Minje Cho (Chemical Engineering, Yeungnam University, Gyeongsan, S.KOREA)
									14	a91096	A STUDY ON COIL-SHAPED SINGLE CRYSTALLINE SILICON INGOT GROWER HEATER CHARACTERISTICS BY USING ELECTROMAGNETIC FIELD	NaYeong Cho (Chemical Engineering, Yeungnam University, Gyeongsan, S.KOREA)
									15	a91116	Micro-scale characterization of PERC under the manufacturing process by photo-luminescence	Kazumi Takano (product development, ITES, Shiga, Japan)
									16	a90531	PHOTO-INDUCED MINORITY CARRIER ANNIHILATION FOR SILICON SAMPLES WITH METAL INSULATOR SEMICONDUCTOR STRUCTURE	Kosuke Ota (Tokyo University of Agriculture and Technology)
									17	a90131	ANALYSIS OF EMITTER LAYER DIVERSE EFFECTS ON POTENTIAL ELECTRICAL EFFICIENCY OF Si HYBRID SOLAR CELL	Bablu K Ghosh (1Electrical and Electronic Engineering Program, University Malaysia Sabah, Sabah-88400, Malaysia)
									18	a90889	ELECTRIC FIELD-ASSISTED ASSEMBLY AND ALIGNMENT OF GOLD NANORODS FOR IMPROVING THE EFFICIENCY OF PLASMONIC SOLAR CELLS	Tsung-Tso Tsai (Graduate Program for Nanotechnology, Department of Materials Science and Engineering, National Chiao Tung University, Taiwan)
									19	a90118	REUSABILITY OF WASTE-SILICON CELLS BY TRANSMOGRIFYING INTO SILICON NANOSTRUCTURE	Thipwan Fangsuwannarak (School of Electrical Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand)
									20	a91088	FORMING OF TIN NANOPARTICLES ON THE SURFACE OF HYDROGENATED SILICON THIN FILMS	Ha The Stuchlikova (Institute of Physics of the CAS, Cukrovarnicka 10, Prague, Czech Republic)
									21	a90988	GERMANIUM AND SILICON/GERMANIUM NANOPARTICLES ENCAPSULATED IN AMORPHOUS SILICON MATRIX FOR PHOTOVOLTAIC APPLICATIONS	Stuchlik Jiri (Institute of Physics of the Czech Academy of Sciences, Cukrovarnicka 10, Prague 6, Czech Republic)
									22	a90985	The new method to make Quantum Dots; These Dots are composed of nm-scale implanted impurity regions in Bulk Si crystal	Isamu Jonoshita (Niihama Ehime)
									23	a90500	SOLUTION PROCESS W/ INFRARED PbS COLLOIDAL QUANTUM DOT / ZnO NANOWIRE SOLAR CELLS	Haibin Wang (Research Center for Advanced Science and Technology, The University of Tokyo)
									24	a90243	Enhancement of the oxygen evolution reaction using a 21-µm-thin c-Si photoanode with nano-pyramid texture	Min-Joon Park (Applied Optics & Energy R&D Group, Korea Institute of Industrial Technology, Gwangju 61012, Korea)

Area Name	Session Class	Session No.	Session Name	Date	Time	Room	Chair1	Chair2	ID No.	Abstract Title	First Author	
									25	a90828	PRODUCT INTEGRATED PHOTOVOLTAICS: NEW APPLICATIONS FOR RURAL AND REMOTE AREAS OF DEVELOPING COUNTRIES BY AN INDUSTRIAL DESIGN APPROACH	Pranav Ashok Satpute (Department of Design, Indian Institute of Technology Guwahati, India)
									26	a90059	FEASIBILITY TUNNEL: AN ASSISTIVE PLATFORM FOR FEASIBLE AND INNOVATIVE IDEA GENERATION IN PRODUCT INTEGRATED PV (PIPV) PRODUCT DESIGN	Pranav Ashok Satpute (Department of Design, Indian Institute of Technology Guwahati, India)
									27	a90261	FABRICATION AND STUDY OF HIGH DENSITY MODULE USING WITHSHINGLED ARRAY CELLS FOR THE HIGH PERFORMANCE AND DURABILITY	Hongsun Jee (Korea Institute of Industrial Technology)
									28	a90274	A STUDY OF SEQUENTIAL ACCELERATION TESTS FOR BACKSHEETS	Wei You Lin (Photovoltaic Metrology laboratory, Center for Measurement Standards, Industrial Technology Research Institute, Hsinchu, Taiwan)
									29	a91154	CHARACTERISTICS AND RISKS OF BROKEN BYPASS DIODE WITH INDUCED LIGHTNING	Shinichiro Oke (Department of Integrated Science and Technology, National Institute of Technology, Tsuyama College, Okayama, Japan)
									30	a90412	IMPROVEMENT OF SERIES RESISTANCE ESTIMATION ON PV MODULE USING SINGLE I-V CHARACTERISTIC CURVE	Ryosuke Kato (University of Tsukuba, Graduate School of Systems and Information Engineering, Ibaraki, Japan)
									31	a90434	METHODOLOGY FOR ESTIMATING DECLINE IN STC OUTPUT OF PV STRINGS WITH OUTDOOR	Masato Funahashi (Department of systems and Information Engineering, University of Tsukuba, Ibaraki, Japan)
									32	a90450	REMOTE MONITORING TECHNIQUE FOR PV SYSTEM USING SATELLITE IRRADIANCE DATA	Kota Kawasaki (System and Information Engineering, University of Tsukuba, Ibaraki, Japan)
									33	a90063	Simple Construction of MPPT for PV Power Generation Using General Purpose Logic ICs	Keiju Matsui (Minna-denryoku Ltd.)
									34	a90139	Evaluations of Single-phase Grid Connected Power Converter using A-SRB TM module with built-in Driver for Microinverter	Koji Maki (Toshiba Corporation, Tokyo, Japan)
									35	a90147	Best Solution for Placement of MPPT Units in a PV Array	Yusuke Takeda (Department of Electrical & Electronics Engineering, Kanagawa Institute of Technology, Kanagawa, Japan)
									36	b90042	PV AND TRANSPORT: HOW PV CAN CONTRIBUTE TO TRANSPORT?	Keiichi Komoto (Mizuho Information & Research Institute, Inc., Tokyo, Japan)
									37	a90170	ECONOMY OF STORAGE BATTERIES IN MULTIPERIOD ENERGY MARKET	Takayuki Ishizaki (Tokyo Institute of Technology)
									38	a90663	OPTIMAL SIZING OF SOLAR PV SYSTEM FOR GER WITH THERMAL STORAGE ELECTRIC HEATER IN ULAANBAATAR	Bat-Erdene Bayandelger (Tokyo University of Science)
									39	a90153	Development of detection method for large forecast error of regional surface solar radiation using multi-center global ensemble forecasts	Fumichika Uno (Advanced Industrial Science and technology)
									40	a91063	Solar irradiance forecasting on the day with Just-In-Time Modeling	Mako Katsuragawa (Dept. of Electrical Engineering & Bioscience, Waseda University, Tokyo, Japan)
									41	a91051	STUDY ON PREDICTION INTERVAL ESTIMATION OF 10 SECOND FLUCTUATION OF RESIDENTIAL LOAD	Shinji Wakao (Dept. of Electrical Engineering & Bioscience, Waseda University, Tokyo, Japan)
									42	a90213	RETRIEVAL OF CLEAR SKY GLOBAL HORIZONTAL IRRADIANCE FROM COMS SATELLITE IMAGES IN SREI SANTHOR, CAMBODIA	YoungHyun Koo (Department of Energy Systems Engineering, Seoul National University, Seoul, Republic of Korea)
									43	b90021	ESTIMATION OF SOLAR ENERGY POTENTIAL OVER MONGOLIA BASED ON SATELLITE DATA	Onon Bayasgalan (The University of Aizu, 965-8580 Japan)
									44	b90064	FEATURES AND PERFORMANCE VALIDATION OF SOLARGIS SOLAR RADIATION MODEL FOR JAPAN 	Marcel Suri (Solargis, Bratislava, Slovakia)
									45	a90769	SOLAR MONITORING SENSORS FOR SOLAR IRRADIANCE DATA ACQUISITION AT HIGH TEMPORAL RESOLUTIONS	Jose Mario Po (EKO Instruments Co., Ltd., Hatagaya Shibuya-ku, Tokyo 151-0072, Japan)
									46	a90144	Construction of the Experiment System for the Effects of Diffuse/Reflected Irradiance of Surrounding Objects	Myeongchan Oh (Department of Energy Systems Engineering, Seoul National University, Seoul, Korea)
									47	b90004	Comparison of Electrical energy (Overall energy) of Photovoltaic (PV), Photovoltaic thermal (PVT) and concentrated Photovoltaic thermal (PVT) collector in clear day condition	Rohit Tripathi (School of Electrical, Electronics & Communication, Galgotias University, G. Noida, U.P., India)
									48	a90677	ANALYSIS OF TEMPERATURE EFFECT ON PHOTOVOLTAICS (PV) SYSTEM PERFORMANCE IN TROPICAL AREA OF KARIMUNJAWA ISLANDS	Mutiara Efendi (Faculty of Mechanical and Aerospace Engineering, Institut Teknologi Bandung, Indonesia)
									49	a90825	SOLAR COLLECTION PERFORMANCE OF PHOTOVOLTAIC MODULE OF TRIANGULAR PYRAMID SHAPE WITH MIRROR CONCENTRATION	Yugo Tanaka (graduate school of bio-applications and systems engineering, Tokyo University of Agriculture and Technology, Tokyo, Japan)
									50	a90861	A NUMERICAL STUDY ON ENERGY PERFORMANCE OF ROOF INTEGRATED FLEXIBLE CIGS BIPV SYSTEM	JongGwon Ahn (Department of Energy System Engineering)