

Wednesday, 26 October 2016: PVSEC-26 Conference Poster Sessions	
08:00 – 18:00 Hibiscus, Level 3 (Foyer)	Registration
09:00 – 10:30 Room 3711/3712/3713	Poster Setup (For Areas 1 & 3)
11:00 – 12:30 Poster session 1 Room 3711/3712/3713	Posters in Area 3: Thin-Film Materials and Solar Cells (For each poster, at least one presenter must be present)
3_1-0003	Mr Chang-Yeh LEE, UNSW, Australia <i>Solid Phase Crystallization/ Annealing of Silicon Thin Films using Raman laser</i>
3_1-0005	Mr Po-Wei CHEN, National Chiao Tung University, Taiwan <i>Enhancement of Carrier Collection by Graded a-SiO_x:H Buffer Layer in a-Si:H Solar Cell for a-Si:H/μc-Si_{1-x}Ge_x:H Tandem Solar Cell Applications</i>
3_1-0009	Dr Yasushi SOBAJIMA, Osaka University, Japan <i>Reduction of growth-end dangling bonds of high-grown temperature amorphous silicon</i>
3_1-0011	Ms Yuanchih CHANG, UNSW, Australia <TBC> <i>Large-scale plasmonic nanostructures fabricated by nanosphere lithography for improved absorption in thin c-Si solar cells</i>
3_1-0014	Dr Jinjoo PARK, Sungkyunkwan University, South Korea <i>High efficiency 2 terminal Si-Ge thin film silicon/Si tandem junction solar cell</i>
3_1-0015	Ms Xiaojie XU, Lawrence Berkeley National Laboratory, United States <TBC> <i>CuS_x:(ZnS)_{1-x} Contacts for Si Heterojunction Solar Cells Deposited by Chemical Bath Deposition</i>
3_1-0016	Ms Alaa HAMDOH, Tokai University, Japan <i>Epitaxial growth of crystalline silicon-germanium thin films on silicon substrates by solid phase crystallization</i>
3_1-0021	Ms Pei-Yu SUN, National Taiwan University, Taiwan <i>Low-Temperature Kerf-less Silicon Spalling by Inducing Thermal-mismatch Stress</i>
3_1-0024	Mr Jiyeon NAM, Kyungpook National University, South Korea <i>Flexible and stretchable amorphous silicon thin film solar cells</i>
3_1-0026	Dr SM IFTIQUAR, Sungkyunkwan University, South Korea <TBC> <i>High efficiency single junction amorphous silicon thin film solar cell</i>
3_1-0027	Dr Trupti Ranjan LENKA, National Institute of Technology Silchar, India <TBC> <i>Structural and Optical Properties of Au Nanoparticles Assisted Vertically Aligned TiO₂ Nanowires deposited by GLAD Technique</i>
3_2-0001	Dr Wei-Lun XU, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>Spectroscopic Ellipsometry Analysis of Chemical Bath Deposited Cadmium Sulphide Thin Films</i>

**PVSEC-26 Full Technical Programme, Posters
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11:00 – 12:30 Poster session 1 Room 3711/3712/3713	3_2-0002	Dr Xia YAN, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>Investigation of Pulsed DC Sputter Deposited Highly Resistive ZnO:Al Buffer Layers for Copper Indium Gallium Selenide Solar Cells</i>
	3_2-0007	Dr Hongbing ZHU, Hebei University, China <i>Air-annealing effect on Cu(In, Ga)Se₂/CdS and solar cells</i>
	3_2-0008	Prof Ming-Jer JENG, Chang Gung University, Taiwan <i>A flat and homogeneous In layers deposited by pulse electrodeposition for preparing CIGS solar cells</i>
	3_2-0016	Mr Tomohiro OGIHARA, Tokyo Institute of Technology, Japan <i>High efficient Cu(In,Ga)Se₂ solar cells with a single-graded band profile by control of the valence band offset at low temperature deposition</i>
	3_2-0022	Dr Shogo ISHIZUKA, National Institute of Advanced Industrial Science and Technology (AIST), Japan <i>Effects of post p-n junction formation process conditions on CuGaSe₂ thin-film solar cells</i>
	3_2-0023	Prof Gerardo S. Contreras-Puente, Escuela Superior de Física y Matemáticas del Instituto Politécnico Nacional, Mexico <i>Comparative Study Of CuInGaSe₂ Solar Cells with CdS the Window Material as Processed by Differents Techniques</i>
	3_2-0024	Mr Chan Moon SONG, Korea National University of Transportation, South Korea <i>Effect of Heat Treatment on ZnS Buffer Layer Deposited by Chemical Bath Deposition</i>
	3_2-0025	Mr Taewoo EOM, Korea National University of Transportation, South Korea <i>Improvement of CIGS thin film by using cracked selenium and RTP process</i>
	3_2-0028	Prof JunHo KIM, Incheon National University, South Korea <i>Surface treatment and Cd-free double buffer layer for CIGS solar cell</i>
	3_2-0029	Mr SeongYeon KIM, Incheon National University, South Korea <i>Fabrication of CIGSe and CZTSe Solar Cells by Chemical Spray Pyrolysis</i>
	3_2-0037	Dr Yoji AKAKI, National Institute of Technology, Miyakonojo College, Japan <i>Effects of H₂S Annealing for Sn-S Thin Films Deposited at High Substrate Temperature</i>
	3_2-0039	Mr Seon Hong MUN, KAIST, South Korea <i>Low-temperature growth of a large-grained CIGS film from a CuGa/In:Se stacked precursor and investigation of its morphology and phase evolution</i>
	3_2-0044	Prof Jin Young KIM, Seoul National University, South Korea <i>Strategies for improving performances of CZTSSe thin film solar cells prepared via electrodeposition</i>
	3_2-0052	Prof Junho KIM, Incheon National University, South Korea <i>Fabrication of Cd-free CZTSSe Solar Cells from Sputtered Stack Layers and Post-Annealing</i>
3_2-0054	Mr Kensuke TSUJI, Ryukoku University, Japan <i>Cu₂Zn(Ge, Sn)(S, Se)₄ solar cells prepared by slit coating and</i>	

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11:00 – 12:30 Poster session 1 Room 3711/3712/3713		<i>sintering process</i>
	3_2-0055	Dr Jihye KIM, ISAC RESEARCH INC., South Korea <i>Characterization of atomic layer deposited Sn(O,S)₂ thin films as Cd-free buffer layers for CIGS solar cells</i>
	3_2-0057	Prof Clas PERSSON, University of Oslo, Norway <TBC> <i>High activation energy for Se diffusion limits anion gradient in Cu₂ZnSn(S,Se)₄</i>
	3_2-0058	Dr Hisashi MIYAZAKI, National Defense Academy, Japan <TBC> <i>Surface Treatment of CZTS Thin Films Using H₂O₂ and H₂SO₄ Solution</i>
	3_2-0062	Prof Kenji YOSHINO, University of Miyazaki, Japan <i>Low Temperature Growth of CuInS₂ Thin Films from Metal Xanthate Precursors</i>
	3_2-0063	Dr Ara CHO, Korea Institute of Energy Research (KIER), South Korea <i>Cu-Sb-S Thin Film Synthesis using Hybrid Ink</i>
	3_2-0064	Ms Himeka TOMINAGA, University of Miyazaki, Japan <i>Low Resistivity Sprayed Ga-doped ZnO Films for CuInGaSe₂ Solar Cells</i>
	3_2-0065	Prof Hironori KATAGIRI, National Institute of Technology, Nagaoka College, Japan <i>Fabrication of CZTS Thin Films by Tin Vapor Transport Method</i>
	3_2-0066	Mr Yuuki HONMA, National Institute of Technology, Nagaoka College, Japan <i>Impact of Flash Lamp Annealing on CZTS Thin Film Solar Cells</i>
	3_2-0068	Ms Youngmin KO, KAIST, South Korea <i>Synthesis of a uniform Cu₂SnS₃ thin film from a stacked Cu/SnS₂ precursor by an intermediate annealing and control of carrier concentration by Na₂S doping</i>
	3_2-0069	Mr K.S. RAHMAN, The National University of Malaysia, Malaysia <i>Influence of Growth Temperature on the Properties of Close-Spaced Sublimation (CSS) Grown CdTe Thin Films for Photovoltaic Application</i>
	3_2-0070	Prof Nowshad AMIN, Universiti Kebangsaan Malaysia, Malaysia <i>Modified Atmospheric Pressure (AP) CVD – A Cost Effective Deposition Method for ZnS, CdS and Cd_{1-x}Zn_xS Thin Films as Buffer Layers in Thin Film Solar Cells</i>
	3_2-0074	Prof Nowshad AMIN, Universiti Kebangsaan Malaysia, Malaysia <i>Impact of CdCl₂ Treatment on Microstructural and Electronic Properties of CdTe Thin Films Deposited by Close-Spaced Sublimation (CSS) Technique</i>
	3_2-0079	Dr Leng ZHANG, Tsinghua University, China <i>The Fabrication of CIGS Solar Cell by Sputtering From Quaternary Target Without Post-selenization</i>
3_2-0084	Prof Sungwook HONG, Daegu University, South Korea <i>Effects of Air-annealed Temperature on Cu₂ZnSnS₄ thin films formed by Spray Pyrolysis</i>	
3_2-0085	Sung-Min YOUN, Korea Institute of Industrial Technology, South Korea <i>Monolithic serial interconnects with picosecond laser pulses for scale-up of CIGS solar cells on flexible substrates</i>	

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11:00 – 12:30 Poster session 1 Room 3711/3712/3713	3_2-0086	Dr Chan KIM, Kyungpook National University, South Korea <i>Effect of NaF layer on Crystallization of Amorphous Cu(In,Ga)Se₂ Films deposited by Co-evaporation</i>
	3_2-0087	Mr Sang Hyeop LEE, Korea National University of Transportation, South Korea <i>Optimization of Ga Contents for Co-evaporated CIGS Thin Film</i>
	3_2-0090	Mr In Young KIM, Gwangju Institute of Science and Technology, South Korea <TBC> <i>Highly transparent and conductive Mg and Ga doped ZnO thin film for CZTS thin film solar cell</i>
	3_2-0091	Myeng Gil GANG, Chonnam National University, South Korea <i>Influence of S, Se partial pressure on the properties of Cu₂ZnSn(S,Se)₄ thin film and their application to solar cell</i>
	3_2-0096	Dr Kang Min KIM, National Institute of Advanced Industrial Science and Technology, Japan <TBC> <i>Growth and characterization of Cu₂FexSnS_{3+x} thin films for photovoltaic applications</i>
	3_2-0098	Ms Himeka TOMINAGA, University of Miyazaki, Japan <i>Room Temperature Growth of ZnO Films by Atmospheric Spray Pyrolysis using Diluted Diethylzinc Solution</i>
	3_2-0099	Mr Dongha LIM, Chonnam National University, South Korea <i>The formation of phase-pure tin sulfide thin films by vapor phase deposition</i>
	3_2-0101	Dr Hamide KAVAK, Cukurova University, Turkey <i>Deposition of Cu₂ZnSnS₄ Absorber Layer for Solar Cell Applications</i>
	3_2-0102	Mingyang ZHU, Yeungnam University, South Korea <i>Influence of Experimental Parameters on Synthesis of CuIn_{1-x}GaxSe₂ solar cells with spray-CFR process</i>
	3_2-0103	Ho Young JUN, Yeungnam University, South Korea <i>Key parameters in the deposition of CIGS solar cells with Zn(O,S) buffer layer using CFR-spin process</i>
	3_2-0104	Mr Koichi SUZUKI, Ritsumeikan university, Japan <i>Enlargement of Cu₂SnS₃ grain size induced by Na for improvement of its photovoltaic performances</i>
	3_2-0106	Mr Soohyun HWANG, Sungkyunkwan University, South Korea <i>Characteristics of Cu₂ZnSnS₄ thin films deposited by RF sputtering from a single quaternary target</i>
	3_2-0107	Prof Takashi ITOH, Gifu University, Japan <TBC> <i>Optical Absorption in Compound Thin Film Solar Cells by Fourier Transfer Photocurrent Spectroscopy</i>
	3_2-0108	Mr Hongxu ZHANG, Institute for Solar Energy Systems (ISES), Sun Yat-sen University, China <TBC> <i>CIGS thin films prepared by RF magnetron sputtering from a single quaternary target</i>
3_2-0109	Mr Zhao WU, Sun Yat-Sen University, China <i>Optimization of the back contact layers in CIGS solar cells by doping NaF</i>	

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14:00 – 15:30 Poster session 2 Room 3711/3712/3713	Posters in Area 3: Thin-Film Materials and Solar Cells (For each poster, at least one presenter must be present)	
	1_3-0009 (reclassified)	Mr Mohammad Shamimul HAQUE CHOUDHURY, Nagoya Institute of Technology, Japan <i>Effect of Hot-compression on Structural, Optical, and Electrical Properties of Electrophoretically Deposited Dye-sensitized Solar Cell</i>
	3_3-0004	Mr Yan-Hao CHEN, National Cheng Kung University, Taiwan <i>Improved Perovskite Solar Cells with Crystallization of Active Layer By Dripping of Mixed Nonsolvents</i>
	3_3-0005	Dr Kenji HARAFUJI, Ritsumeikan University, Japan <i>Morphological Analysis of Solar Cells with Pentacene Anode Buffer</i>
	3_3-0006	Ms Wafa Syakira BINTI AZMI, Ritsumeikan University, Japan <i>Interface Analysis of Ultraviolet-Ozone Treated Anode Surface of Organic Solar Cells</i>
	3_3-0007	Mr Yan-Hao CHEN, National Cheng Kung University, Taiwan <i>Improved Perovskite Solar Cells With Solution-Processed Lithium-Doped Nickel Oxide As Hole Transport Layer</i>
	3_3-0008	Mr Yan-Hao CHEN, National Cheng Kung University, Taiwan <i>Fa-Perovskite Solar Cells By Solvent Annealing Process</i>
	3_3-0009	Mr Yan-Hao CHEN, National Cheng Kung University, Taiwan <i>Enhanced Performance Of Perovskite Solar Cells With Triple Solvents</i>
	3_3-0010	Dr Jiandong FAN, Jinan University, China <TBC> <i>Highly thermal stable Perovskite Solar Cells via Additional Solvent Mediation</i>
	3_3-0011	Dr Hideo UCHIDA, Chubu University, Japan <i>Carbon based p-i-n solar cells</i>
	3_3-0012	Dr Gowri Manohari A, Southeast University, China <i>Active layer of methylammonium lead tri-iodide in the fabrication of hybrid Perovskite solar cells</i>
	3_3-0016	Mr Jun-Ho BAE, Chonbuk National University, South Korea <i>3D printing carbon-based transparent electrodes for perovskite solar cells</i>
	3_3-0018	Mr Jae Hun YU, Chonbuk National University, South Korea <i>Highly stable perovskite solar cells using carbon based material as a hole transporting layer</i>
	3_3-0019	Prof Shruti Aggarwal, Guru Gobind Singh Indraprastha University India <i>Performance studies of dye-sensitized solar cell (DSSC) by swift heavy ion (SHI) irradiation</i>
3_3-0025	Dr Mohammad Istiaque HOSSAIN, Qatar Environment and Energy Research Institute, Qatar <i>Fabrication of Electron Transport Material Free and Inverted Perovskite Solar Cell Structure Using Sputtered Cu(I)2O as Hole Transport Material</i>	
3_3-0028	Ms Bhumika CHAUDHARY, Energy Research Institute @ NTU (ERI@N), Singapore, <i>Engineering the PbI2 Layer Morphology by O-donor Solvent Additive</i>	

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	<i>to Boost Open Circuit Voltage and Performance of Perovskite Solar Cells</i>
3_3-0034	Mr GOVINDARAJ R, SSN College of Engineering, India <TBC> <i>Reduction of Charge Recombination in Dye-Sensitized Solar Cells Using TiO₂ Nanorods-Nanoparticles</i>
3_3-0035	Mr Takayuki OKANO, University of Tsukuba, Japan <i>Bi-Based (CH₃NH₃)₃Bi₂I₉ Perovskite Solar Cells Prepared by Gas-Assisted Spin-Coating</i>
3_3-0038	Dr Ajay Kumar BARANWAL, University of Hyogo, Japan <i>Hole transport layer free printable perovskite solar cell with surfactant systems</i>
3_3-0039	Mr Toshiyuki TAKASAKI, Kyushu University, Japan <i>Effect of photocatalyst TiO₂ on the long-term stability of dye-sensitized solar cells</i>
3_3-0044	Mr Dickson KINDOLE, Ashika Institute of Technology, Japan <i>Experimental Study on Enhancement of Photovoltaic Performance of DSSCs by Crystallization of TiO₂ Films using ASPPS</i>
3_3-0051	Mr Daisuke SAKAMOTO, Kyushu University, Japan, <i>Low cost dye-sensitized solar cells based on polymer composite catalyst</i>
3_3-0059	Mr Issei TAKENAKA, Keio University, Japan <i>Reducing recombination in 3D-structured SnO₂ electron transport layer for perovskite solar cells</i>
3_3-0065	Mr Ifeanacho ANYADIEGWU, Ashikaga Institute of Technology, Japan <i>Rapid Deposition of Photo-Catalytic TiO₂ film for DSSC by 1KW Class Atmospheric Plasma Spray Equipment Using Ar/N₂ Working Gas</i>
3_3-0066	Prof Kenji YOSHINO, University of Miyazaki, Japan <i>Sprayed SnO₂/FTO Buffer Layer for Perovskite based Solar Cell</i>
3_3-0069	Mr Katsunori MAEDA, Tokai University, Japan <i>Influence of hole transport layer on the hysteresis and degradation in CH₃NH₃PbI₃ perovskite solar cells</i>
3_3-0075	Prof Qing SHEN, The University of Electro-Communications, Japan <i>PbS quantum dot heterojunction solar cells: ligand dependent exciton dissociation, recombination and photovoltaic property</i>
3_3-0077	Su-Mi BANG, Chonbuk National University, South Korea <i>Photovoltaic Properties of New Terpolymers Containing TPD Donor Unit for Polymer Solar Cell</i>
3_3-0078	You-Sun LEE, Chonbuk National University, South Korea <i>The effect of various conjugated polymers as carrier transporting materials in perovskite solar cells</i>
3_3-0079	Ji-Ho JEONG, Chonbuk National University, South Korea <i>A controlled polymer material as an anode interfacial layer for perovskite solar cells</i>
3_3-0082	Prof Liudmila LARINA, Chungnam National University, South Korea <i>PtFe bimetallic nanoparticles for the counter electrode of dye-sensitized solar cell: Effect of Ar⁺ ion plasma etching on electronic structure of the nanoparticles</i>
3_3-0083	Mi Jung CHOI, Chonbuk National University, South Korea <i>Highly efficient and stable planar perovskite solar cells with a</i>

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14:00 – 15:30 Poster session 2 Room 3711/3712/ 3713		<i>solution-processed transition metal oxide layer</i>
	3_3-0084	Ms Se phin CHO, Chonbuk National University, South Korea <i>Solution processed metal oxide hole transporting layer for efficient and stable perovskite solar cells</i>
	3_3-0093	Mr Mohammad Shamimul Haque Choudhury, Nagoya Institute of Technology, Japan <i>Linear And Nonlinear Optical Properties of Trifluoroethoxy-coated Zinc Phthalocyanine Thin Films Prepared by Spin Coating</i>
	3_3-0101	Mr Firdaus SUHAIMI, Energy Research Institute @ NTU, Singapore <i>Current Matching and Light Distribution in Organic Stacked Solar Cells</i>
	3_4-0001	Mr Chang-Yeh Lee, UNSW, Australia <TBC> <i>Solid Phase Annealing of Kesterite Cu₂ZnSnS₄ Thin Films using Raman laser</i>
	3_4-0004	Mr Kannan PK, Indian Institute of Technology Hyderabad, India <TBC> <i>Effects of S/Se Ratio on the Bandgap of CZTSSE Thin Films Deposited Using Electron Beam Evaporation</i>
	3_4-0007	Tomohiko NISHIDA, Kansai University, Japan <i>Formation and evaluation of Cu₂ZnSnS₄ films prepared by electroplating and sulfurization with CS₂</i>
	3_4-0009	Mr Wei-Chung KUO, National Central University, Taiwan <i>Growth of high quality GaAs on thin Ge buffer layer on Si substrate and its applications</i>
	3_4-0017	Mr Stener LIE, NTU, Singapore <i>Photovoltaic Effect in Earth Abundant Solution Processed Cu₂MnSnS₄ and Cu₂MnSn(S,Se)₄ Thin Films</i>
	3_4-0019	Mr Hiroki SUMI, Tokyo University of Science, Japan <i>Band Alignment of n-type Semiconductor/p-type SnS Heterojunction for Earth-Abundant SnS solar cells</i>
	3_4-0020	Mr Tsubasa YOKOI, Tokyo University of Science, Japan <i>Effect of Alkali-metal Post-deposition Treatment on SnS Thin Films and Solar Cells</i>
	3_4-0026	Mr Wenjie LI, ERI@N, NTU, Singapore <TBC> <i>CZTSSe solar cell with ALD ZTO buffer layer</i>
	3_4-0027	Mr Wenjie LI, ERI@N, NTU, Singapore <i>Alkali Doping in Solution Processed CZTSSe Solar Cells</i>
	3_4-0028	Prof JunHo KIM, Incheon National University, South Korea <i>Growth of SnS films and solar cell application</i>
	3_4-0038	Mr Shigeru NAKATSUKA, Kyoto University, Japan <i>Photovoltaic performance of ZnSnP₂ bulk crystals with the efficiency over 1%</i>
	3_4-0042	Mr Ryota KATAYAMA, Toyota Technological Institute, Japan <i>N incorporation at the surface step in CBE grown GaAsN film on GaAs(111) vicinal substrate</i>
3_4-0045	Dr Yu-Cian WANG, Toyota Technological Institute, Japan <i>Selective-area growth of GaAs on patterned Si substrates by using chemical beam epitaxy</i>	
3_4-0052	Hayato AKITA, Miyakonojo National Institute of Technology, Japan <i>Fabrication of Ag₂SnS₃ thin films by sulfurization of vacuum</i>	

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14:00 – 15:30 Poster session 2 Room 3711/3712/ 3713		<i>evaporated Ag/Sn and Ag/SnS precursors</i>
	3_4-0053	Dr Trupti Ranjan LENKA, National Institute of Technology Silchar, India <TBC> <i>Optimization of Phase Separation Effect on Performance of Single Core-Shell InGaN/GaN Nanowire</i>
	3_4-0056	Mr Yuki ISHII, Tokai University, Japan <i>Effects of ZnO thin film by inductively coupled plasma-assisted sputtering</i>
	3_5-0001	Mr Chia-Cheng CHOU, Industrial Technology Research Institute, Taiwan <i>I-V Characteristics of emerging PV measured under Dim-indoor light sources</i>
	3_5-0010	Mr Hansong XUE, Solar Energy Research Institute of Singapore (SERIS), Singapore, <i>A device model for perovskite solar cells</i>
	3_5-0011	Dr FaJun MA, University of New South Wales, Australia <i>Device Model Analysis of Se-free Cu₂ZnSnS₄ solar cell using Sentaurus TCAD</i>
	3_5-0013	Prof Ayodeji AWODUGBA, Ladoke Akintola University of Technology, Nigeria <i>Numerical simulation of CZTS/ZnO/FTO hetero-junction solar cell</i>
	3_5-0014	Dr Hao WANG, ERI@N, NTU, Singapore <i>Optical study of light absorption behaviour in Perovskite/CIGS tandem solar Cells</i>
	3_5-0019	Yutaka NIIZAWA, Ritsumeikan University, Japan <i>Optical design for tandem solar cell based on chalcopyrite and perovskite materials</i>
	3_5-0020	Dr Lay Theng TAN, Republic Polytechnic, Singapore <i>Light intensity dependence of I-V parameters of various solar cell structures</i>
	3_5-0021	Mr Akira NAKANISHI, Tokyo Institute of Technology, Japan <i>Numerical simulation of CH₃NH₃PbI₃ perovskite/heterojunction crystalline silicon tandem solar cells using Silvaco-Atlas software</i>
	3_5-0024	Dr Anna NIKOLSKAIA, Russian Academy of Sciences, Russia <i>Perovskite/ZnPC solar cells: action spectra of photocurrent and effect of bulk photoconductivity</i>
	3_5-0025	Dr Kazuyoshi NAKADA, Tokyo Institute of Technology, Japan <i>Numerical Simulation on the Effect of Tunnel Recombination Layer Band Profile on the Performance of Perovskite / Cu(In, Ga)Se₂ Tandem Solar Cells</i>
	3_5-0026	Prof Nowshad AMIN, The National University of Malaysia, Malaysia <i>Effects of Interfacial p-MoS₂ Layer in Cu₂ZnSnS₄ (CZTS) Thin Film Solar Cells from Numerical Analysis</i>
3_5-0028	Dr Rob PATTERSON, University of New South Wales, Australia <i>Temperature dependent current contributions from mobile vacancy-type defects in lead halide perovskites</i>	

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16:00 – 18:00 Poster session 3 Room 3711/3712/ 3713	Posters in Area 1: Novel PV Materials and Concepts (For each poster, at least one presenter must be present)	
	1_1-0002	Dr Adel GOUGAM, Masdar Institute of Science and Technology, United Arab Emirates <i>Passivation studies using Atomic Layer Deposition technique for SiO₂/ Al₂O₃ and HfO₂/Al₂O₃ stacks</i>
	1_1-0003	Dr Takeshi TAYAGAKI, National Institute of Advanced Industrial Science and Technology (AIST), Japan <i>Wide-bandgap InGaP-based InP quantum dot solar cells for intermediate-band solar cells</i>
	1_1-0009	Prof Mikihiko NISHITANI, Graduate School of Engineering Osaka University Japan, Japan <TBC> <i>The investigation of transition metal oxide materials applied for solar cell material with intermediate band</i>
	1_1-0011	Dr Kosuke HARA, University of Yamanashi, Japan <i>Fabrication of BaSi₂ thin films passivated by amorphous Si using a single evaporation source</i>
	1_1-0014	Dr Yukimi ICHIKAWA, FUTURE-PV Innovation / JST, Japan <i>Properties of Silicon Nano-walls for Wide Bandgap Solar Cells</i>
	1_1-0016	Dr Rob PATTERSON, UNSW Australia, Australia <i>Hot carrier properties of PbS colloidal quantum dots revealed by power and temperature dependent photoluminescence spectroscopy</i>
	1_1-0017	Prof Koichi YAMAGUCHI, The University of Electro-Communications, Japan <i>Photoluminescence and Photovoltaic Properties of Ultrahigh-Density InAs Quantum Dots on InAsSb/GaAs(001)</i>
	1_1-0019	Dr Marit KAUK-KUUSIK, Tallinn University of Technology, Estonia <i>Growth and characterization of Cu₂CdSnS₄ single crystalline powder for solar cell applications</i>
	1_1-0021	Dr Olindo ISABELLA, Delft University of Technology, Netherlands <i>Organometallic Halide Perovskite / Barium Di-Silicide Thin-Film Double-Junction Solar Cells</i>
	1_1-0025	Mr Chulmoon CHOI, Chonbuk National University, South Korea <TBC> <i>Conductive polymeric yarn-based fiber-shaped perovskite solar cells</i>
	1_1-0035	Mr Soohyun HWANG, Sungkyunkwan University Department of Electrical and Computer Engineering, South Korea <i>Novel Low Temperature Sintering Method of Self-Cleaning Coating for Photovoltaic System Applications</i>
	1_1-0050	Dr Yasushi SHOJI, The University of Tokyo, Japan <i>Multi-stacked GaSb/GaAs type-II quantum nanostructure for application to intermediate band solar cells</i>
1_1-0057	Mr Anupam NANDI, Indian Institute of Engineering Science and Technology, Shibpur, India <i>Opto-Electrical Property Study of RGO-ITO Composite Thin Film and Its Benefit over the Standard ITO Thin Film as Transparent Conducting Oxide</i>	
1_1-0058	Prof Horng-Show KOO, Minghsin University of Science and	

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16:00 – 18:00 Poster session 3 Room 3711/3712/ 3713		Technology, Taiwan <TBC> <i>Investigation on Degradation Mechanism of the Dye-sensitized Solar Cells with NiO-doped ZnO Film Electrodes</i>
	1_1-0059	Prof Horng-Show KOO, Minghsin University of Science and Technology, Taiwan <TBC> <i>Effect of Y2O3-doped ZnO Film Electrodes on the Optoelectronic Characterization of the Dye-sensitized Solar Cells</i>
	1_1-0067	Prof Nowshad AMIN, Universiti Kebangsaan, Malaysia <i>Nearly 1.8 eV InGaN top cells design on Si for tropical region efficient solar cell</i>
	1_2-0004	Dr Kan-Hua LEE, Toyota Technological Institute, Japan <i>Design Considerations and Efficiency Prospects of III-V on Silicon Solar Cells</i>
	1_2-0005	Dr Lewis FRAAS, JX Crystals Inc, United States <i>ThermoPhotoVoltaics (TPV): Cogenerating Electricity from Hot Steel</i>
	1_2-0006	Dr Kenji ARAKI, Toyota Technological Institute, Japan <i>Design optimization on static low concentrator PVs installed to various non-optimized locations including the car-roof.</i>
	1_2-0007	Dr Sergei MANZHOS, National University of Singapore, Singapore <i>Density Functional Theory – Time-Dependent Density Functional Theory Study of Interfacial Charge Transfer Complexes of 2-Anthroic Acid and TiO2 Nanoparticles</i>
	1_2-0009	Dr Liangliang TANG, Hohai University, China <i>The Performance of GaInAsSb and GaSb cells vs IR Emitter Temperature in Thermophotovoltaic Systems</i>
	1_2-0010	Mr Satoshi TAKIMOTO, Nagoya University, Japan <i>Photovoltaic unit for optical output from solar-pumped lasers (II) perovskiteolar cells for 532nm monochromatic light</i>
	1_2-0011	Mr Hidetaka TERAZAWA, Nagoya University, Japan <i>Calculation of theoretical conversion efficiency via ray tracing and simulation of laser oscillation in Nd:YAG ceramic rod for micro-solar-pumped laser-PV cell combined system</i>
	1_2-0014	Mr Kangmin LEE, Ulsan National Institute of Science and Technology (UNIST), South Korea <i>Nano/micro hybrid radial junction silicon solar cells</i>
	1_2-0015	Ms Suchismita MITRA, Indian Institute of Engineering Science and Technology Shibpur, India <i>Numerical modeling of rear passivated carrier selective tunnel contact solar cell</i>
	1_2-0016	Mr Kemmei WATANABE, Nagoya University, Japan <i>Photovoltaic unit for optical output from solar-pumped lasers (i) : outspread and mitigation of the optical output power from an optical fiber by a light guide plate</i>
	1_2-0024	Ms Wan Ru LEOW, Nanyang Technological University, Singapore <i>Al2O3 Surface Complexation for Photocatalytic Organic Transformations</i>
1_2-0044	Dr Alexander AXELEVITCH, Holon Institute of Technology (HIT), Israel <TBC> <i>Metal Nanostructures for Solar Cells Efficiency Improvement</i>	
1_3-0004	Prof Naoteru SHIGEKAWA, Osaka City University, Japan	

**PVSEC-26 Full Technical Programme, Posters
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16:00 – 18:00 Poster session 3 Room 3711/3712/ 3713		<i>Electrical Characterisation of Coupling Properties in InGaP/GaAs/Si Triple-Junction Cells</i>
	1_3-0019	Dr Shanmugan S., Vel Tech Multitech Dr.Rangarajan Dr.Sakunthala Engineering College, India <TBC> <i>Synthesis and Characterization of Doped Silver-Organic Nanocomposites (ONPs/Ag) with NaBH₄ Organic-Inorganic Hybrid Nanoparticles used in Photovoltaic's from innovation through industry</i>
	1_3-0032	Prof Der-Ray HUANG, National Dong Hwa University, Taiwan <i>Research on Solar Diffuse Fraction in Eastern Taiwan</i>
	1_3-0033	Mr Toshiyuki TAKASAKI, Kyushu University, Japan <i>Room temperature fabrication of high-mobility amorphous In₂O₃:Sn films via nitrogen-mediated amorphization method</i>
	1_3-0035	Dr Changheon KIM, Green Energy Institute, South Korea <i>Effects on Film Stress of Hydrogenated Silicon Nitride Passivation Layer</i>
	1_4-0003	Prof Noritaka USAMI, Nagoya University, Japan <i>Geometry control of silicon-based photonic nanostructures by modulated stacking conditions of germanium dots</i>
	1_4-0005	Ms Puqun WANG, SERIS, Singapore <i>Periodic upright nanopyramid texturing for ultra-thin crystalline silicon solar cells</i>
	1_4-0007	Ms Sudarshana BANERJEE, Indian Institute of Engineering Science and Technology, India <i>ITO embedded Ag₂S nano-particles as back reflector layer for increasing optical path length within thin film silicon solar cells</i>
	1_4-0010	Mr Hemanta GHOSH, Indian Institute of Engineering Science and Technology Shibpur, India <i>Embedded Silicon nitride (SiN) nanoparticles as plasmonic back scatterers for crystalline silicon solar cell</i>
	1_4-0014	Dr Santhosh Kumar K., Southeast University, China <i>Down-conversion for an enhancement in efficiency of solar cell using Tb³⁺/Ce³⁺/Bi³⁺ - Yb³⁺ co-doped Y₃Al₅O₁₂ phosphors</i>
	1_4-0019	Mr Zhengshan YU, Arizona State University, United States <i>Spectrum-splitting GaAs/Si tandem module with 28% outdoor efficiency</i>
1_4-0021	Prof Srinivas Reddy K., Indian Institute of Technology Madras, India <i>Luminescent solar concentrator using high contrast gratings</i>	
18:00 – 18:30 Poster session 3 Room 3711/3712/3713	Poster removal (Area 1 & Area 3)	

Thursday, 27 October 2016: PVSEC-26 Conference Poster Sessions	
08:00 – 18:00 Hibiscus, Level 3 (Foyer)	Registration
09:00 – 10:30 Room 3711/3712/3713	Poster Setup (For Areas 2, 4 & 5)
11:00 – 12:30 Poster session 4 Room 3711/3712/ 3713	Posters in Area 5: PV Systems, Deployment and Grid integration (For each poster, at least one presenter must be present)
	5_1-0002 Mr Ke Rong Kenny TAN, Newcastle University International Singapore - Singapore Institute of Technology, Singapore <TBC> <i>Demonstration of Innovative Smart Home Strategies on LabVolt System</i>
	5_1-0004 Mr Yuichi MASUTANI, Tokyo University of Science, Japan <i>Evaluation of Angle-of-Incidence Effects on Low Magnification Condensing Spectrum-splitting PV System with One Axis Tracking</i>
	5_2-0005 Dr Angele REINDERS, ARISE, University of Twente, The Netherlands <i>A simple phenomenological model for the determination of spectrally distributed irradiance in the Netherlands</i>
	5_2-0007 Prof Tomonao KOBAYASHI, Gifu University, Japan <i>Characteristics of Solar Irradiance Fluctuation and Corresponding Weather Condition</i>
	5_2-0009 Prof Shigeomi HARA, Saga University, Japan <i>Construction of Fast Measurement System in Yoshinogari Mega Solar Power Plant</i>
	5_2-0010 Prof Shigeomi HARA, Saga University, Japan <i>Development of Computer Program for Large-scale Measurement data of Yoshinogari Mega Solar Power Plant</i>
	5_2-0011 Mr Hiroyuki MANO, Ritsumeikan University, Japan <i>Correlation of short circuit current ratio of various photovoltaic modules and average photon energy of solar spectrum</i>
	5_2-0012 Dr Kohji MASUDA, Japan Electrical Safety & Environment Technology Laboratories (JET), Japan, <i>Investigation into Spatial Distribution of Irradiance for Performance Measurement of Photovoltaic Modules at Photovoltaic Systems</i>
	5_2-0020 Mr Jukkkravat SUNJAI, Rajamangala University of Technology Lanna, Thailand <i>The monitoring energy and efficiency of very small solar roofs top grid connected power system under difference inverter models</i>
	5_2-0024 Prof Der-Ray HUANG, National Dong Hwa University, Taiwan <i>Photovoltaic Effect of Solar Cell Modules under Sun Radiation with Different Directions</i>
	5_3-0001 Mr Naotaka OKA, Doshisha University, Japan <i>Power generation performance evaluation of mega solar power plant with different module connection</i>
5_3-0003 Dr Amornrat LIMMANEE, National Science and Technology Development Agency, Thailand	

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		<i>Degradation Behaviour of PV Modules under Thailand's Climate</i>
5_3-0008	Dr Anil Kottantharayil, Indian Institute of Technology Bombay, Japan	<i>Evaluation of increase in the energy yield of PV modules by inverting the panels during the non – sunshine hours</i>
5_3-0010	Dr Hailing LI, Institute of Electrical Engineering, Chinese Academy of Science, China	<i>Evaluation of the performance of large scale PV plant in West China</i>
5_4-0004	Mr Cheng-Lien WANG, Winaico, Taiwan	<i>Comparison of outdoor performance between PERC and HJT solar systems</i>
5_4-0007	Dr Yasuo CHIBA, National Institute of Advanced Industrial Science and Technology (AIST), Japan	<i>Relationship between performance ratio and indoor power output measurements for various photovoltaic modules at AIST Kyusyu Center</i>
5_4-0008	Mr Mattias Gustafsson, University of Gävle, Sweden	<i>Effects of different time resolution when self-consumed and produced excess electricity is predicted in a single family house – case study in cold climate, Sweden</i>
5_4-0016	Mr Daksh DAVE, United World College of South East Asia, Singapore	<i>An Alternative Way of Reporting PR That Is Fair to Both Investors and System Owners</i>
5_4-0018	Mr Mike WANEBO, Sunpreme Inc., United States	<i>Enhancing Bifacial Module Yield with Active Albedo</i>
5_5-0010	Ms Dhivya SAMPATH KUMAR, Solar Energy Research Institute of Singapore (SERIS), Singapore	<i>A novel microinverter technique for highly built environments and difficult to access building integrated PV systems</i>
5_6-0003	Dr Keping YOU, Solar Energy Research Institute of Singapore (SERIS), Singapore	<i>High Penetration of Photovoltaic Energy Needs Modification of Grid Standards for Future PV Applications - A Study of Singapore's Low-Voltage Grid Codes of Practice in Comparison with IEC and IEEE Requirements</i>
5_6-0010	Mr Aloysius Wishnu ARYAPUTERA, Solar Energy Research Institute of Singapore (SERIS), Singapore	<i>Power Output Forecast of a Photovoltaic Network</i>
5_6-0017	Eiki ARAI, Tokyo University of Science, Japan	<i>Heuristics Estimation Model of Aggregated Residential Load</i>
5_7-0002	Dr Maifi LYES, University Mentouri Constantine, Algeria, <TBC>	<i>Influence of operational parameters on the production of a plane solar distiller coupled to a hybrid photovoltaic thermal sensor</i>
5_7-0007	Dr Worrajak MUANGJAI, Rajamangala University of Technology Lanna, Thailand	<i>Energy management depend on 5kWp PV system control by IoT at Posor Ruralschool in Mae Hong Son Province Thailand</i>
5_7-0008	Khawar MEHMOOD, Zhongli Talesun Solar Co. Ltd, China	<i>Solar Water Pumping System</i>

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	5_7-0010	Asst. Prof Nopporn PATCHARAPRAKITI, Rajamangala University of Technology Lanna, Thailand, <i>A System Performance Comparison of Solar DC Water Pumping with and without Battery Energy Storage</i>
	6_1-0001	Prof Tonio BUONASSIS, Massachusetts Institute of Technology, United States <TBC> <i>The 10TW Goal – How to Scale PV Economically to Meet Climate Targets?</i>
	6_1-0003	Dr Saravanan VASUDEVAN, Arunai Engineering College, Indi <i>Development of Solar Parks in India</i>
	6_1-0006	Mr Yousuke NOZAKI, NTT FACILITIES, Inc., Japan <TBC> <i>Our historical contribution activities for Asian PV deployment</i>
	6_1-0008	Dr Stephen TAY, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>Initiatives Towards Solarising Singapore</i>
	6_1-0009	Prof AbuBakr BAHAI, University of Southampton, United Kingdom <i>Photovoltaic Driven Mini Grids as Energy Access Platforms for Rural Communities</i>
	6_1-0010	Mr Takafumi SATO, Mizuho Information & Research Institute, Inc., Japan <i>The Potential of On-Board PV for Electrified Vehicles to Reduce Lifecycle CO2 Emissions</i>
	6_1-0011	Prof Kung-Jeng WANG, National Taiwan University of Science and Technology, Taiwan <i>Intelligent manufacturing of a prism-based solar concentrator system – a modelling perspective</i>
14:00 – 15:30 Poster session 5 Room 3711/3712/3713	Posters in Area 4: PV Modules (For each poster, at least one presenter must be present)	
	4_1-0001	Dr Yu-Hsien LEE, Industrial technology research institute, Taiwan <TBC> <i>Mechanical and electrical characterization of HeatCap solar cell modules</i>
	4_1-0004	Mr Haruo WATANABE, Affinity Co., LTD., Japan <i>New PV Modules with Silicone Oil by the whole process consisting of Room Temperature</i>
	4_1-0006	Dr Changsoon HAN, Laser Advanced System Industrialization Center, South Korea <i>Characteristics of the surface modification of PV module glasses utilizing the ultrashort laser pulses</i>
	4_2-0003	Dr Song-Yeu TSAI, Industrial Technology Research Institute, Taiwan <i>Characteristic Analysis of Printing Flexible CIGSS Sub-modules</i>
	4_2-0005	Phasapon MANOSUKRITKUL, King Mongkut's Institute of Technology, Ladkrabang, Thailand, <i>Performance Degradation of a-Si Thin Film PV Arising from the Dust in Thailand</i>
	4_3-0003	Mr Goutam SAMANTA, Orange Renewable Power, India <TBC> <i>Long term reliability of crystalline modules</i>
	4_3-0004	Mr Guoqing CHEN, Zhongli Talesun Solar Co., Ltd., China <TBC> <i>The study on the impact of the WVTR of the backsheet to the anti-</i>

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	<i>PID performance of the module</i>
4_3-0006	Dr Volker NAUMANN, Fraunhofer Center for Silicon Photovoltaics CSP, Germany <i>Outdoor PID testing of modules in PV systems</i>
4_3-0013	Dr Volker NAUMANN, Fraunhofer Center for Silicon Photovoltaics CSP, Germany <i>Advanced laboratory soiling test to simulate realistic dust deposition</i>
4_3-0019	Mr Manit SEAPAN, King Mongkut's University of Technology Thonburi, Thailand <i>PV module reliability as installed in hot and humid climate of Thailand</i>
4_3-0020	Mr Vincent HANDARA, Singapore University Technology and Design, Singapore <i>Solar Photovoltaics Module Reliability: Degradation Study under Extreme Tropical Environment</i>
4_3-0021	Mr Seira YAMAGUCHI, Japan Advanced Institute of Science and Technology, Japan <i>Time dependence and saturation behavior of the potential-induced degradation of n-type front-emitter photovoltaic modules</i>
4_3-0022	Kazuki NOGUCHI, Nara Institute of Science and Technology, Japan <i>Temperature dependence of EL imaging and VOC estimation</i>
4_3-0025	Dr Fumitaka OHASHI, Gifu University, Japan <i>Migration and distribution analysis of Na in photovoltaic modules by potential induced degradation test</i>
4_3-0026	Mr Panom PARINYA, King Mongkut's University of Technology Thonburi (KMUTT), Thailand <i>Comparison between Measured Power and Nameplate Power Rating of PV Modules in Thailand</i>
4_3-0033	Mr Junhui LIU, Zhejiang Jinko Solar Co., Ltd., China <i>Research for the vapor transmission performance of the encapsulation materials of PV module</i>
4_3-0034	Dr Laure-Emmanuelle PERRET-AEBI, CSEM, Switzerland, <i>"Solarstratos", pushing the solar technology to the edge of space</i>
4_3-0035	Dr Wayne MA, Dow Chemical (China) Investment Co., Ltd, China <i>Maximizing Reliability Performance with Polyolefin Encapsulants</i>
4_4-0009	Markus Schweiger, TÜV Rheinland Energy GmbH, Germany <i>Electrical Characteristics of Bifacial PV Modules Measured in the Laboratory</i>
4_4-0010	Ms Husyira AL HUSNA, Loughborough University, United Kingdom <i>Uncertainty in Spectral Response Measurement of Photovoltaic Modules</i>
4_4-0014	Mr Taisei KITAMOTO, Tokyo University of Science, Japan <i>The development of PV module degradation analysis method</i>
4_4-0018	Mr Hyeong-Seok KIM, Korea Aerospace University, South Korea, <TBC> <i>Equivalent circuit modeling of Dye-sensitized solar cell module induced from electrochemical impedance spectroscopy</i>
4_4-0019	Mr Yoshihide HIDAKA, University of Miyazaki, Japan <i>Influence of silicone on glass lens temperature on concentrator photovoltaic modules with and without secondary optics</i>

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	4_4-0022	Prof Terubumi SAITO, Tohoku Institute of Technology, Japan <i>Solar Cell Conversion Efficiency Measurements Based on Electrical Substitution Method</i>
	4_4-0023	Dr Mauro PRAVETTONI, University of Applied Sciences and Arts of Southern Switzerland, Switzerland <i>Reliability of Spectral Measurement in the UV and NIR: Evidence from Previous International Spectral Measurement Intercomparisons</i>
	4_4-0027	Prof Frank HAMELMANN, University of Applied Sciences, Germany <i>Performance analysis of different silicon-based solar cells mounted in Thailand and Germany</i>
	4_4-0028	Mr Ihor RADCHENKO, Singapore University of Technology and Design, Singapore <i>Residual Stress Evaluation in Thin Silicon Photovoltaic Modules using Synchrotron X-ray Micro-diffraction and Finite Element Analysis</i>
	4_4-0030	Mr Ninad GAIKWAD, Gujarat Energy & Research Management Institute (GERMI), India <i>Photovoltaic Module PV-IV Curve Generator with Shading Analysis in MATLAB</i>
	4_4-0033	Dr Soo Min KIM, Gumi Electronics & Information Technology Research Institute, South Korea <TBC> <i>Characteristics of bifacial solar cell module with optical spectrum as site conditions</i>
16:00 – 18:00 Poster session 6 Room 3711/3712/3713	Posters in Area 2: Crystalline Silicon Materials and Solar Cells (For each poster, at least one presenter must be present)	
	2_1-0008	Mr Sunho CHOI, Korea Institute of Energy Research, South Korea <i>Ultrathin single crystalline Si wafers by using a slurry based multi-wire sawing process for photovoltaics</i>
	2_2-0001	Mr Tao LI, Institute of Electrical Engineering, China <TBC> <i>The effect of silver crystallites on electrical performances of silicon solar cells</i>
	2_2-0004	Dr Chunlai HUANG, State Key Lab of Silicon Materials and School of Materials Science & Eng., Zhejiang University, China <i>Ga-doped Quasi-single Crystalline Silicon</i>
	2_2-0005	Mr Shuai YUAN, Zhejiang University, China <i>Growth and performance of cast high performance multicrystalline silicon in nitrogen atmosphere</i>
	2_2-0012	Mr Sumukh RAMPRASAD, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>Crack Detection in Multi-Crystalline Silicon Wafer Solar Cells</i>
	2_2-0015	Miss Romika SHARMA, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>Investigating the role of hydrogen and surface passivation in light induced degradation of multicrystalline silicon solar cells</i>
	2_2-0021	Mr Pi-Chen TSAI, National Taiwan University, Taiwan <i>HF-HNO₃-H₂SO₄ system for texturing diamond wire sawn multi-crystalline silicon wafer</i>
	2_2-0022	Jong HEO, KITECH, South Korea <i>Multi-crystalline silicon solar cells with production line fitted nanoscale pyramid texture</i>

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<p>16:00 – 18:00 Poster session 6 Room 3711/3712/ 3713</p>	2_2-0023	Miss Mrinalini PADMANABHAN, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>Light and elevated temperature induced degradation of multicrystalline silicon Al-BSF and PERC solar cells</i>
	2_2-0024	Mr Sagnik CHAKRABORTY, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>A comparison of phosphorous and boron diffusion gettering responses in traditional and high-performance multicrystalline silicon</i>
	2_3-0004	Dr Dong-Youn SHIN, Pukyong National University, South Korea <i>Novel approach to construct finger electrodes finer than the nozzle opening in dispensing printing for crystalline silicon solar cells</i>
	2_3-0005	Dr Kyotaro NAKAMURA, Meiji University, Japan <i>P-type Bi-facial PERT Solar Cell using Less Than 100 μm thick Cz Wafer and Cu Paste</i>
	2_3-0011	Dr Benjamin STRAHM, Meyer Burger Research AG, Switzerland <TBC> <i>Si-HJT 2.0: using exceptional surface passivation properties of amorphous silicon to increase power output by structure and material changes in Si-HJT solar cells</i>
	2_3-0020	Ms Taeko SEMBA, Namics corporation, Japan <i>Ag paste for high Voc and high FF on textured and flat solar cells</i>
	2_3-0021	Dr Porponth SICHANUGRIST, Japan Science and Technology Agency, Japan <i>Development of high quality p-type microcrystalline silicon oxycarbide using additional Trimethylboron as carbon source gas</i>
	2_3-0027	Mr Jaffar Moideen YACOBALI, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>Nanosecond laser ablation properties of widely used dielectric layers for solar cell applications</i>
	2_3-0028	Mrs Shu Yunn CHONG, REC Solar Pte. Ltd, Singapore <i>The effect of alkaline textured pyramid size on the cell efficiency of homogeneous doped emitter screen printed silicon solar cells</i>
	2_3-0030	Ms Jeong Eun PARK, Korea National University of Transportation, South Korea <i>Electrical Characterization of c-Si Solar Cell with Various Emitter Layer using Adjustable Gas Flow</i>
	2_3-0031	Mr Jun Seok PARK, Korea National University of Transportation, South Korea <i>Effect of Surface Damage Removal for Optimizing Reactive Ion Etching of c-Si Solar Cell</i>
	2_3-0032	Gulsen BAYTEMIR, Middle East Technical University, Turkey <i>Radial Junction Crystalline Silicon Solar Cells By Metal Assisted Electroless Etching</i>
	2_3-0034	Ms Xinhang LI, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>Investigation of IPA free alkaline texturing for p-type Al-BSF mono-Si wafer solar cells – impact of pyramid size</i>
2_3-0037	Mr Muzhi TANG, REC Solar Pte. Ltd., Singapore <i>Optimization of the back surface morphology for 21% n-type bi-</i>	

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16:00 – 18:00 Poster session 6 Room 3711/3712/ 3713		<i>facial mono crystalline silicon solar cells</i>
	2_3-0044	Dr Chunlan ZHOU, Institute of Electrical Engineering, Chinese Academy of Sciences, China <TBC> <i>Improvement of passivation on MCCE fabricated Blank silicon</i>
	2_3-0049	Dr Young Joon CHO, Chungnam National University, South Korea <TBC> <i>Characteristics of ALD-Al₂O₃ passivation in thin crystalline silicon wafer</i>
	2_3-0053	Dr Woojun YOON, U.S. Naval Research Laboratory, United States <i>Advanced Surface Passivation of Epitaxially Grown Emitters for High-efficiency Ultrathin Crystalline Si Solar Cells</i>
	2_3-0057	Mr Yutaro TAKEI, Tokyo Institute of Technology, Japan <i>Sputtered Cu₂O:N Emitter for Silicon Heterojunction Solar Cells</i>
	2_3-0058	Dr Jeong In LEE, Korea Institute of Energy Research, South Korea <i>Characterization of Al₂O₃ Passivation Layer Deposited by Plasma-Assisted Atomic Layer Deposition in c-Si Solar Cells</i>
	2_3-0059	Dr Min Gu KANG, Korea institute of Energy Research, South Korea <i>Analysis of blister formation during annealing process for the tunneling oxide passivation layer</i>
	2_3-0062	Mr Myeong Sang JEONG, Korea University, South Korea <i>Electrode formation using electroless Ni-Cu plating in the crystalline silicon solar cells with double anti-reflection layers</i>
	2_3-0063	Mr Kwan Hong MIN, Korea University, South Korea <i>Interface properties of Al₂O₃/SiO_x/Si(100) using wet chemical oxidation for crystalline Si solar cell applications</i>
	2_3-0072	Mr Tae-hyeon BAEK, Chungbuk National University, South Korea <i>Bow Removal In Thin Crystalline Silicon Solar Cell</i>
	2_3-0074	Dr Renfang CHEN, Research Center for New Energy Technology, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, China <i>Improved silicon heterojunction solar cells via n-type amorphous silicon window layer deposited by CAT-CVD</i>
	2_3-0075	Mr Tsuyoshi KAWAKAMI, University of Hyogo, Japan <i>Laser Formation of Point Contact in Aluminum Passivation layer for High-efficiency Crystalline Silicon Solar cells</i>
	2_3-0077	HyunJung PARK, Korea University, South Korea <TBC> <i>Doping concentration analysis of POCl₃ diffused emitter using quasi-steady-state photoconductance</i>
	2_3-0078	Dr Dominik LAUSCH, Fraunhofer Center for Silicon-Photovoltaics CSP, Germany <TBC> <i>Light-Induced Degradation and Regeneration of Back Surface Field (BSF) and PERC Monocrystalline Silicon Solar Cells</i>
	2_3-0080	Mr Inseol SONG, Korea University, South Korea <TBC> <i>Ultraviolet stability of thermally deposited Al₂O₃ on crystalline silicon solar cells</i>
2_3-0081	Je-Min YEON, Shinsung Solar Energy, South Korea <i>Screen printed p-type Al-BSF solar cell with efficiency of 20% fabricated in an industrial production line</i>	
2_3-0082	Ms Min Ji LEE, Korea National University of Transportation, South Korea	

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16:00 – 18:00 Poster session 6 Room 3711/3712/ 3713		<i>Influence of saw mark defect density for silicon wafer texturing</i>
	2_3-0083	Prof Fanying MENG, Chinese Academy of Sciences, China <TBC> <i>Performance evaluation of n-type mono-Si wafer application in amorphous/crystalline Si heterojunction solar cells</i>
	2_3-0085	Dr Lujia XU, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>The influence of laser opening patterns and metallization conditions on localized back surface field solar cells</i>
	2_3-0090	Dr Xinyu Zhang, Zhejiang JinkoSolar Co., Ltd., China <TBC> <i>Optimization for Industrial Thermal ALD AlOx Surface Passivation Film for Mass-production</i>
	2_3-0092	Mr Dong WANG, Zhejiang Jinko Solar Co., Ltd., China <TBC> <i>Comparison of industrial feasible chemical cleaning techniques and their applications on monocrystalline silicon solar cells</i>
	2_3-0093	Mr Young Min LEE, Korea National University of Transportation, South Korea <i>Optimization of Front Laser Patterning to Form Ni/Cu Electrode of c-Si Solar Cell</i>
	2_3-0101	Seiya YOSHINAGA, Nara Institute of Science and Technology, Japan <i>Nanoimprinted-Textured Crystalline Silicon Solar Cells with Si-rich-SiN layer for Low Surface Reflectance</i>
	2_4-0008	Prof Moustafa GHANNAM, Kuwait University, Kuwait <i>Restoration of the Fill Factor and I-V characteristics of HIT cells with deficient a-Si:H p+ doping</i>
	2_4-0009	Prof Terubumi SAITO, Tohoku Institute of Technology, Japan <i>Spectral Dependence of Photovoltaic Cell Conversion Efficiency For Monochromatic Radiation</i>
	2_4-0010	Carlos Andres VARGAS CASTRILLON, University of New South Wales, Australia <i>Revision of the temperature dependence of iron-acceptors association rate</i>
	2_4-0016	Prof Abasifreke EBONG, UNC Charlotte, United States <i>Computer simulation of the impact of interface trap density on n-ZnO/p-Si single heterojunction solar cells</i>
	2_4-0018	Prof Shih-Hung LIN, TungHai University, Taiwan <i>Metrology of in-line PL image inspection and analysis platform</i>
	2_4-0027	Mr Kyung KIM, The University of New South Wales, Australia <i>Impact of Deposition Condition and Thermal Process on Industrial PECVD AlOx Layer for Surface Passivation</i>
	2_4-0029	Mr Amit Singh RAJPUT, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>'Smart PL' (Photoluminescence) Imaging Technique for Solar Cell Characterisation</i>
	2_4-0030	Dr Jian Wei HO, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>Temperature-dependent Photoconductance-based Characterisation of Minority Carrier Trapping Effects in Multicrystalline Silicon</i>
2_4-0031	Dr Jimmy MELSKENS, Delft Spectral Technologies B.V., Netherlands <i>Fourier Optical Measurement System: enabling ultrafast external</i>	

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16:00 – 18:00 Poster session 6 Room 3711/3712/ 3713		<i>quantum efficiency measurements on crystalline silicon solar cells</i>
	2_4-0032	Dr Laytheng TAN, Republic Polytechnic, Singapore <i>Effects of temperature and spectral variation on light-induced degradation of silicon solar cells</i>
	2_4-0033	Victor CUNHA, Pontifical Catholic University, Brazil <i>Optimization Of Solar Cell Power Using Genetic Algorithm (TBC)</i>
	2_4-0036	Mr Samuel RAJ, Solar Energy Research Institute of Singapore (SERIS), Singapore <i>Impact of Non-Uniform Illumination and Probe Bar Shading on Solar Cell I-V Measurement</i>
	2_4-0037	Dr Shude ZHANG, Zhongli Talesun Solar Co., Ltd., China <i>Study on the Suitability of Pulsed Solar Simulators for the Measurement of High Efficiency Silicon Solar Cells</i>
	2_4-0040	Mr Takashi HARADA, University of Hyogo, Japan <i>Mist chemical vapor deposited yttrium oxide films deposited by for crystalline silicon surface passivation</i>
	2_4-0041	Mr Yuki MIKI, University of Hyogo, Japan <i>Study of aluminum oxide passivation films deposited by reactive sputtering with assistance of low inductance antenna</i>
	2_4-0042	Mr Shor KITANO, University of Hyogo, Japan <i>X-ray reflectivity study of structural change in atomic layer deposited AlOx films by post deposition thermal treatment</i>
	2_4-0045	Ms Erin LOONEY, Massachusetts Institute of Technology, United States <i>The Thin Silicon Advantage: Low Cost, low capex, high performance</i>
	2_4-0046	Mr Takahisa MASUDA, Tokyo Institute of Technology, Japan <i>Characterization of the Passivation Effect of Al₂O₃ for Crystalline Silicon by Using Temperature Dependence of Effective Carrier Lifetime</i>
	2_4-0049	Mr Jun-Kyu LEE, Korea Institute of Energy Research, South Korea <i>Effect of current density on the morphology of silver electrochemically recovered from c-Si solar cell</i>
	2_4-0050	Mr Eun-Hyuk YANG, Korea Institute of Energy Research, South Korea <i>Extraction Behaviors of silver from c-Si Solar Cell in Various Mixing Ratios of Organic Acid and Oxidizing Agent</i>
	2_4-0051	Mr Maksym PLAKHOTNYUK, Technical University of Denmark, Denmark <i>Phosphorous Doping of Nanostructured Crystalline Silicon</i>
	2_4-0053	Dr Seungkyu AHN, Korea Institute of Energy Research, South Korea <i>Development of solar cell test JIG for the performance evaluation of bifacial solar cells</i>
2_4-0054	Mr Robert DUMBRELL, The University of New South Wales, Australia <i>Effective lifetime of full rear metallized cells by quasi-steady-state photoluminescence</i>	
2_4-0056	Dr Toshimitsu MOCHIZUKI, National Institute of Advanced Industrial Science and Technology (AIST), Japan <i>Evaluation of Rear Surfaces of PERC Solar Cells Using Internal Quantum Efficiency Mapping</i>	

**PVSEC-26 Full Technical Programme, Posters
(as of 22 October 2016)**

16:00 – 18:00 Poster session 6 Room 3711/3712/ 3713	2_4-0057	Dr Fumihiko YAMADA, Toyota Technological Institute, Japan <i>Development of an AFM/KFM System Capable of Local workfunction Mapping of Solar Cells under Light Illumination</i>
	2_4-0060	Dr Fa-Jun MA, University of New South Wales, Australia <i>Advanced evaluation of surface passivation nonuniformity from photoluminescence imaging of undiffused lifetime samples</i>
	2_4-0062	Dr Anon NAMIN, Rajamangala University of Technology Lanna, Thailand <i>Study of Capacitance –frequency Characteristics of Multi–crystalline Photovoltaic Cell using Intensity Modulation Current Transfer Function Spectroscopy</i>
	2_4-0064	Prof Der-Ray HUANG, National Dong Hwa University, Taiwan <i>The Characteristics of Solar Cell Modules Affected by Different Vibrating Testing Conditions</i>
	2_4-0071	Mr Yu-Yan HU, National Sun Yat-Sen University, Taiwan <i>PERC Solar Cell with Local Cover Thin-Film Heterojunction</i>
	2_4-0072	Mr Srinivasan MANICKAM, SSN college of Engineering, India <i>Numerical modeling on influence of dimensionless numbers on second phase impurities SiC, Si₂N₂O and Si₃N₄ in grown mc-silicon by modified DS furnace for PV applications</i>
18:00 – 18:30 Room 3711/3712/3713	Poster removal (Area 2, 4 & 5)	