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Edited by:

G.F. DE SANTI

*Institute for Energy (IE), JRC - European Commission
Petten, The Netherlands*

H. OSSENBRINK

*European Commission - DG JRC
Ispra, Italy*

P. HELM

*WIP - Renewable Energies
Munich, Germany*

Coordination of the Technical Programme:

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Via E. Fermi 1
21020 Ispra (VA), Italy

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Conference realised by:

WIP - Renewable Energies
Sylvensteinstr. 2
81369 München, Germany
Tel: +49 89 720 12 735
Fax: +49 89 720 12 791
eMail: pv.conference@wip-munich.de
www.photovoltaic-conference.com
www.wip-munich.de

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2CV.1.49	Recycling of Silicon Powder Retrieved from Diamond Wire Slicing Kerf <i>M. Dhamrin, T. Saitoh, K. Kamisako, T. Mori, N. Iwamoto</i>	1600
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2CV.2.26	Efficiency of Bifacial Si Solar Cells at Low Irradiance. Effect of Design and Fabrication Technology Factors <i>G. Grigorieva, M. Kagan, V. Unishkov, K. Zviagina, L. Kreinin, N. Bordin, J. Broder, Y. Eisenberg, N. Eisenberg</i>	1805
2CV.2.27	Optimization and Analysis of Deposition Processes of Amorphous Silicon for Silicon Heterojunction Solar Cells <i>C. Meinhardt, D. Pysch, M. Bivour, K. Zimmermann, C. Schetter, M. Hermle, S.W. Glunz</i>	1810
2CV.2.30	Towards the Limits of Efficiency of Screen Printed Solar Cells. New Techniques for the Front Side Contacts <i>C. Vázquez, L.J. Caballero, M.A. Vázquez, J. Alonso, J.R. Ramos-Barrado</i>	1816
2CV.2.33	Development and Understanding of the Intrinsic and Doped Amorphous Emitter-Layer Stacks for Silicon Heterojunction Solar Cells <i>D. Pysch, C. Meinhardt, M. Hermle, S.W. Glunz</i>	1820
2CV.2.34	Luminescence Imaging for Quantitative Solar Cell Material and Process Characterization <i>M. Glatthaar, J. Haunschild, R. Zeidler, J. Rentsch, S. Rein, O. Breitenstein, D. Hinken, K. Bothe</i>	1825
2CV.2.36	Determining the Bulk Lifetime of Unpassivated Multicrystalline Silicon Wafers <i>K. Bothe, R. Krain, R. Brendel, R. Falster, R. Sinton</i>	1828
2CV.2.37	Long-Term Degradation of Oxide-Passivated Phosphorus-Diffused Silicon <i>K.R. McIntosh, W. Tsoi, A.F. Thomson, B.S. Richards</i>	1834
2CV.2.38	The Optimization of Silicon Nitride Film for the Rear Passivation Layer of the p-Type Silicon Based Solar Cell <i>Y. Kurimoto, R. Imai, R. Suganuma, H. Yashiki, S. Ooka, R. Ozaki, J. Imoto, I. Yamasaki, K. Nakanura, T. Machida</i>	1840

2CV.2.39	Comparison of Nanosecond 248 nm and Picosecond 355 nm Laser Processes for Selective Ablation of SiNx Material <i>S. Gall, J. Brune, C. Moorhouse, S. Manuel, M. Pirot, R. Monna, D. Heslinga</i>	1845
2CV.2.40	Comprehensive Study of SiNx Ablation with High Energy Large Spot Excimer Laser Source <i>S. Gall, T. Emeraud, K. Huet, C. Boniface, S. Manuel, B. Paviet-Salomon, D. Muñoz</i>	1849
2CV.2.41	High Energy/Large Spot Excimer Laser for High Efficient Selective Emitters Solar Cells <i>S. Gall, J.F. Lerat, T. Emeraud, K. Huet, C. Boniface, S. Manuel, B. Paviet-Salomon, M. Pirot, R. Monna, D. Heslinga</i>	1852
2CV.2.42	The Influence of Transparent Conductive Oxide Layers and their Preparation Technique on Heterojunction Si Solar Cells <i>N. Nakamura, T. Nakanishi, K. Ibi, T. Yamazaki, Y. Watabe</i>	1855
2CV.2.43	Comparative Study of the Microstructure of a-Si:H and a-SiNx:H Passivation Films Deposited by Direct and Remote Plasma CVD in a Single PECVD Reactor <i>M. Blech, A. Laades, C. Ronning, A. Lawerenz</i>	1859
2CV.2.45	SiN Precipitate Formation Related to Metal Contamination of Multicrystalline Silicon for Solar Cells <i>P.C.P. Bronsveld, G. Coletti, E. Schuring, C.M. Roos</i>	1863
2CV.2.46	High Aspect Ratio Front Contacts by Single Step Dispensing of Metal Pastes <i>J. Specht, K. Zengerle, M. Pospischil, D. Erath, J. Haunschild, F. Clement, D. Biro</i>	1867
2CV.2.47	Double Sided Inline Diffusion of Multicrystalline Silicon Wafers <i>M. Rinio, L. Tao, S. Keipert-Colberg, D. Borchert</i>	1871
2CV.2.48	Stacked PECVD Backside Dielectrics: An Option for a Firing Stable Passivation of Industrial Type Screen-Printed Silicon Solar Cells <i>S. Joos, U. Hess, S. Seren, B. Terheiden, G. Hahn</i>	1875
2CV.2.49	Methods and Devices for Noncontact Express Measurement of the Main Electro-Physical Parameters of Polysilicon and Multysilicon Used for Solar Cells Production <i>A.V. Yurchenko, A.N. Novikov, K.V. Nikolenko</i>	1879
2CV.2.50	On Anomalous Emitter Regions Forming During Phosphorous Diffusion Processing of Crystalline Silicon Solar Cells <i>J. Horzel, B. Schum, A. Lachowicz, J. Rossa, K. Vaas, M. Jahn, Y. Gassenbauer, H. Von Campe, H. Boubekeur, G. Blendin, U. Weber, A. Seidl, A. Armigliato, F. Seidel, T. Hantschel, P. Eyben, S. Vinzelberg, S.S.A. Gerstl, W. Schmidt</i>	1882
2CV.2.51	Electroless Nickel and Copper Metallization: Contact Formation on Crystalline Silicon and Background Plating Behavior on PECVD Silicon SiNx:H Layers <i>S. Braun, E. Emre, B. Raabe, G. Hahn</i>	1892
2CV.2.52	High-Efficiency Large Area Industrial LCP Selective Emitter Solar Cells Ready for Production <i>D. Kray, N. Bay, G. Cimiotti, S. Kleinschmidt, N. Kösterke, A. Lösel, O. Lühn, M. Sailer, A. Träger, H. Kuehnlein, H. Nussbaumer, A. Fell, C. Fleischmann, S. Hopman, K. Mayer, M. Mesec, A. Rodofili, F. Granek, S.W. Glunz, E. Müller, P. Sempere, A. Pauchard, B. Richerzhagen</i>	1896
2CV.2.53	Analysis of Local Al-p+-Layers for Solar Cells Processed by Small Screen-Printed Structures <i>J. Krause, R. Woehl, D. Biro</i>	1899
2CV.2.54	High Lifetime on n-Type Silicon Wafers Obtained after Boron Diffusion <i>A. Edler, J. Jourdan, V.D. Mihailetchi, R. Kopecek, R. Harney, D. Stichtenoth, T. Aichele, A. Grochocki, J. Lossen</i>	1905
2CV.2.55	Investigation of the Minority Carrier Lifetime Reduction during Industrial DC-Sputtering of Metal Seed Layers <i>D. Reinwand, M. Graf, P. Hartmann, R. Preu, R. Trassl</i>	1908
2CV.2.56	Towards Industrial Application of Stencil Printing for Crystalline Silicon Solar Cells <i>B. Heurtault, J. Hoornstra</i>	1912
2CV.2.57	Low Cost Selective Emitter for Multicrystalline Solar Cells with 0.4% Point Efficiency Gain <i>M. Koppes, A.F. Stassen</i>	1917

2CV.2.58	16.7% Efficient Solar Cell Using Electromagnetic Casting (EMC) Multicrystalline Silicon Wafers in an Industrial Type Solar Cell Process <i>P.C. Barton, G. Coletti, T. Veltkamp, K. Nakagawa</i>	1921
2CV.2.59	Sophistication of Doping Profile Manipulation - Emitter Performance Improvement without Additional Process Step <i>Y. Komatsu, A.F. Stassen, P.R. Venema, A.H.G. Vlooswijk, C. Meyer, M. Koorn</i>	1924
2CV.2.60	Implementation of Boron Emitters Using BCL3 Diffusion Process for Industrial Silicon Solar Cells Fabrication <i>C. Oliver, B. Semmache, Y. Cuminal, A. Foucaran, M. Gauthier, Y. Pellegrin</i>	1930
2CV.2.61	Efficiency Potential of Solar Cells Based on Compensated Multicrystalline Silicon Materials <i>D.S. Saynova, G. Coletti, M. Di Sabatino, L.J. Geerligs</i>	1934
2CV.2.62	How to Improve a Multicrystalline Solar Cell Process with More than One Percentage Point Resulting in an Average Cell Efficiency of 17.2% <i>A.F. Stassen, J. Anker, P. Danzl, Y. Komatsu, M. Koppes, E. Kossen</i>	1939
2CV.2.63	Doping- and Carrier Concentration Profile Characterisation of Highly Phosphorus-Doped Emitters <i>S. Werner, U. Belledin, A. Kimmerle, A. Fallisch, A. Wolf, D. Biro</i>	1942
2CV.2.65	Development of High-Efficiency Silicon Solar Cell by Applying Rear Dielectric Passivation with the Optimized Contacts Using Screen-Printed Al Paste <i>H.-W. Guo, R. Mishra, Z. Zhang, H. Mungekar, M. Frei, H. Yin, S. Zhu, S. He, J. Jin, Y. Li, W. Shan, S. Paak</i>	1948
2CV.2.66	Control of Texturized Silicon Substrates Surface Passivation for a-Si:H/c-Si Heterojunction Solar Cells <i>A. Danel, P.E. Hickel, F. Souche, T. Salvetrat, Y. Letiec, T. Nolan, P.J. Ribeyron</i>	1951
2CV.2.67	Selective Doping Method for Crystalline Silicon Solar Cells with Continuous Wave Laser and Light Absorption Layer <i>K.H. Kim, S.J. Lee, Y.M. Ku, J. Jang, Y.H. Cho</i>	1955
2CV.2.68	Thick-Film Electrodes for Contacting p-Type Emitters <i>A.G. Prince, N. Takeda, W.E. Farneth, R.J.S. Young, P.J. Willmott</i>	1958
2CV.2.69	Impurity Analysis in Wet Chemical Baths in PV Processes <i>A. Oltersdorf, M. Bayer, M. Zimmer, J. Rentsch, S. Rein</i>	1961
2CV.2.71	Improved Emitters by Dry Etching <i>J. Seiffe, R. Khandelwal, C. Clement, U. Jäger, M. Hofmann, J. Rentsch, R. Preu</i>	1965
2CV.2.72	Solar Cell Manufacturing: As-cut mc-Si Wafers Discrimination Using Magnetotransport, Optical and Lifetime Measurements <i>V. Parra García, V. Bellani, F. Rossella, I. Colino, F. Dionigi, C. Sánchez-Fabrés, E. Díez</i>	1969
2CV.2.73	Fully Industrial Bifacial Solar Cells with Selective Emitters <i>I. Hoces, N. Azkona, L. Perez, F. Recart, J.C. Jimeno</i>	1974
2CV.2.75	Advanced Front Side Metallization for Crystalline Silicon Solar Cells Based on a Fully Plated Contact <i>J. Bartsch, A. Mondon, B.-J. Godejohann, M. Hörteis, S.W. Glunz</i>	1978
2CV.2.76	Laser Edge Isolation with a Focus on Damage Reduction by the Use of Ultra-Short Pulse Lasers <i>V. Schütz, O. Haupt, U. Stute, H. Nagel, G. Lorenz</i>	1984
2CV.2.77	SiNTO EWT Silicon Solar Cells <i>A. Fallisch, R. Keding, G. Kästner, J. Bartsch, S. Werner, D. Stüwe, J. Specht, R. Preu, D. Biro</i>	1991
2CV.2.79	Silicon Solar Cells Metallization by Inkjet Printing <i>J. Martín Real, C. Montalbán, A. Apraiz, J.P. Aguerre, J.C. Jimeno, J.R. Gutierrez, Y.T. Gizachew, L. Escoubas, J.J. Simon, M. Pasquinelli, J. Loiret, P.Y. Leguen</i>	1997
2CV.2.80	Large Area Solar Cells Made from Degradation-Free, Low Resistivity Gallium Doped Cz Wafers <i>T. Lauermann, A. Herguth, S. Scholz, G. Hahn, N.P. Ostrom, B.K. Johnson, W.-H. Jung, H. Haverkamp, C. Schmid</i>	2002
2CV.2.81	Iron Gettering with Aluminium and Back-Surface Passivation of Single Crystalline Silicon <i>J. Lindroos, M. Yli-Koski, A. Haarahiltunen, H. Savin</i>	2006

2CV.2.82	Optimization of Doping Level for Single Diffusion Step Selective-Emitter Solar Cells <i>C.-H. Lin, B.-C. Chen, C.-H. Lung, W.-H. Lu, Y.-F. Chen, Y.-W. Tai, M.-H. Wu, C.-C. Wang, W.-C. Hsu</i>	2010
2CV.2.83	Towards Advanced Back Surface Fields by Boron Implantation on p-Type Interdigitated Back Junction Solar Cells <i>J. Robbelein, T. Janssens, B.J. Pawlak, N.E. Posthuma, E. Rosseel, J. Poortmans, R. Mertens</i>	2014
2CV.2.84	Intragrain Defects vs. Grain Boundaries in mc-Si Solar Cells: A Reflectivity-Coupled LBIC Study <i>B. Moralejo, M.A. González, J. Jiménez, S. Ponce-Alcantara, V. Parra García</i>	2019
2CV.2.85	Texturing of String Ribbon Silicon <i>S. Gindner, J. Junge, S. Seren, G. Hahn</i>	2024
2CV.2.86	Heavily Doped Emitter Analysis and Optimization for Crystalline Silicon Solar Cells <i>V. Nguyen, M. Reuter, P. Gedeon, R. Zapf-Gottwick, J.H. Werner</i>	2028
2CV.2.88	Towards In-Line Alkaline Texturing for Monocrystalline Silicon Solar Cells <i>V. Fano, V. Rodríguez, L. Tejado, J.C. Jimeno</i>	2032
2CV.2.89	Inline Single Side Oxide Etch for Rear Side Passivated Solar Cells <i>B.-U. Sander, D. Queisser, S. Queisser, F. Delahaye, A. Merkle, T. Brendemühl, T. Dullweber</i>	2036
2CV.2.90	Gettering Efficacy of Screen-Printed Emitters in Multicrystalline Silicon for Solar Cells with Selective Emitters <i>T.M. Pletzer, E.F.R. Stegemann, H. Windgassen, D.L. Bätzner, R. Bleidiesel, H. Kurz</i>	2039
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