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5P-A9-25	P-TYPE MICROCRYSTALLINE SiC FABRICATED BY RF PLASMA CVD WITH 40-MHz EXCITATION T. Toyama, Y. Nakano, T. Ichihara, H. Okamoto	1695
5P-A9-26	HIGH QUALITY a-Si_{1-x}C_x:H WINDOW LAYERS PREPARED BY CAT-CVD METHOD USING GRAPHITE CATALYZER UNDER LOW THERMAL RADIATION CONDITIONS K. Sugita, M. Itoh, A. Masuda, H. Matsumura	1699

5P-A9-27	EFFECT OF TOTAL GAS PRESSURE ON HYDROGENATED AMORPHOUS SILICON CARBIDE FILMS BY HOT-WIRE CVD A. Tabata, T. Makajima, T. Mizutani, Y. Suzuki	1703
5P-A9-28	WIDE GAP AND LOW RESISTIVE HETERO-STRUCTURED SiC_x FILMS FOR WIDE GAP WINDOW OF HETEROJUNCTION SOLAR CELLS T. Itoh, Y. Hasegawa, T. Fujiwara, A. Masuda, S. Nonomura	1706
5P-A9-29	HIGH RATE GROWTH OF MICROCRYSTALLINE SILICON FILMS ASSISTED BY HIGH DENSITY PLASMA C. Niikura, M. Kondo, A. Matsuda	1710
5P-A9-30	PROPERTIES OF MICROCRYSTALLINE SILICON FILMS DEPOSITED AT HIGH GROWTH RATE AT DIFFERENT PLASMA EXCITATION FREQUENCIES S. Ray, S. Mukhopadhyaya, C. Das, T. Jana	1714
5P-A9-31	CRYSTALLOGRAPHIC CONTROL OF MICROCRYSTALLINE SILICON FILMS IN A SiF₄/SiH₄/H₂ PLASMA BY VHF-PECVD M. Kuo, S. Lin, C. Huang, C. Chen, C. Huang, L. Kuo	1718
5P-A9-32	MODULATION EFFECT OF PLASMA POWER ON CRYSTALLINE VOLUME FRACTION OF SILICON FILMS IN THE PHASE TRANSITION FROM μ-a-Si:H TO c-Si:H X. Geng, Y. Mai, G. Hou, Y. Zhao, J. Xue, H. Ren, J. Sun, D. Zhang, X. Zhang	1722
5P-A9-33	LATERAL CRYSTALLIZATION OF SILICON FILMS USING JOULE HEATING N. Andoh, T. Sameshima	1725
5P-D4-01	WIDE BAND GAP BUFFER EFFECT FOR AMORPHOUS SILICON SOLAR CELL ANALYZED BY BASREA MEASUREMENT S. Honda, T. Yamazaki, M. Tsurukawa, H. Takakura, Y. Hamakawa	1729
5P-D4-03	AMORPHOUS SILICON SOLAR CELLS AT HIGH DEPOSITION RATES USING NEWLY DEVELOPED PECVD M. Komoda, K. Niira, H. Senta, T. Nishimura, H. Hakuma, H. Okui, K. Aramaki, Y. Okada, K. Tomita, H. Higuchi, H. Arimune	1733
5P-D4-04	FAST AND HIGHLY STABILIZED a-Si:H MULTILAYER SOLAR CELL S. Myong, M. Konagai, K. Lim	1737
5P-D4-05	THERMAL ANNEALING CHARACTERISTICS OF AMORPHOUS SILICON-BASED SOLAR CELLS INCORPORATING STABLE PROTOCRYSTALLINE SILICON AND UNSTABLE MICROCRYSTALLINE SILICON AT THE ONSET OF A MICROCRYSTALLINE REGIME J. Ahn, K. Jun, M. Konagai, K. Lim	1741
5P-D4-06	DEVELOPMENT OF GLASS SUBSTRATES WITH TIN OXIDE FILMS FOR A-SI SOLAR MODULES A. Fujisawa, M. Nara, M. Hirata, K. Kiyohara, M. Hyodo	1745
5P-D4-07	HIGH GROWTH RATE AND GAS UTILISATION IN a-Si:H SOLAR CELLS MADE WITH AMPLITUDE MODULATED VHF-CVD J. K. Rath, A. C. Biebericher, R. E. Schropp, W. F. van der Weg, W. J. Goedheer	1748
5P-D4-08	IMPACT OF SHEET RESISTIVITY AND CONTACT SHADING ON 'SUNS-V_{oc}' MEASUREMENTS OF THIN-FILM SOLAR CELLS N. P. Harder, A. B. Sproul, T. Brammer, A. G. Aberle	1752
5P-D4-09	IMPACT OF SPECTRAL EFFECTS ON THE ELECTRICAL PARAMETERS OF MULTI-JUNCTION AMORPHOUS SILICON CELLS T. R. Betts, C. N. Jardine, R. Gottschalg, D. G. Infield, K. Lane	1756
5P-D4-11	FABRICATION TECHNOLOGIES FOR LARGE-AREA PLASTIC-FILM-SUBSTRATE SOLAR CELLS S. Fujikake, M. Uno, S. Iwasaki, Y. Takeda, T. Wada, M. Tanda, A. Takano, T. Yoshida	1760
5P-D4-12	ANALYSIS OF MICROCRYSTALLINE SILICON SOLAR CELLS PREPARED BY HOT-WIRE AND PLASMA-ENHANCED CHEMICAL VAPOR DEPOSITION T. Brammer, R. C. Somayajula, S. Klein, B. Rech, H. Stiebig	1764
5P-D4-13	INFLUENCE OF THE CRYSTALLINE FRACTION ON THE STABILITY OF NANOCRYSTALLINE SILICON SOLAR CELLS M. Fonrodona, D. Soler, J. Asensi, J. Bertomeu, J. Andreu	1768
5P-D4-14	MICROCRYSTALLINE SILICON THIN FILM SOLAR CELLS PREPARED BY HOT WIRE CELL METHOD Y. Ide, Y. Saito, A. Yamada, M. Konagai	1772

5P-D4-15	A CRITICAL ROLE OF P/I INTERFACE IN NANOCRYSTALLINE SILICON SINGLE JUNCTION P-I-N SOLAR CELLS U. K. Das, E. Centurioni, S. Morrison, A. Madan	1776
5P-D4-16	MODIFIED PULSED PECVD FOR NANO-CRYSTALLINE SILICON SOLAR CELLS: AN EFFECT OF i-LAYER GROWTH TEMPERATURE U. K. Das, E. Centurioni, S. Morrison, D. L. Williamson, A. Madan	1780
5P-D4-17	EFFECT OF TCO COATED SUBSTRATE AND P-LAYER ON PERFORMANCE OF MICROCRYSTALLINE SILICON SOLAR CELLS S. Ray, T. Jana, C. Das, R. Das	1784
5P-D4-18	A STUDY OF SINGLE CHAMBER PECVD μc-Si SOLAR CELLS Y. Li, J.A. A. Selvan, L. Li, R. Levy, A. E. Delahoy	1788
5P-D4-19	LARGE AREA MULTI-ZONE TYPE VHF-PCVD SYSTEM FOR A-SI AND μc-Si DEPOSITION T. Takagi, M. Ueda, N. Ito, Y. Watabe	1792
5P-D4-20	MICROCRYSTALLINE-Si SOLAR CELLS BY NEWLY DEVELOPED NOVEL PECVD METHOD AT HIGH DEPOSITION RATE H. Hakuma, K. Niira, H. Senta, T. Nishimura, M. Komoda, H. Okui, K. Aramaki, Y. Okada, K. Tomita, H. Higuchi, H. Arimune	1796
5P-D4-21	MAGNETRON SPUTTERED ZINC STANNATE FILMS FOR SILICON THIN FILM SOLAR CELLS O. Kluth, C. Agashe, J. Hüpkas, B. Rech	1800
5P-D4-22	SILICON SOLAR CELLS AND MATERIAL NEAR THE TRANSITION FROM MICROCRYSTALLINE TO AMORPHOUS GROWTH A. Lambertz, F. Finger, R. Carius	1804
5P-D4-23	aSiNet: THE EUROPEAN NETWORK ON AMORPHOUS-SILICON DEVICE TECHNOLOGY J. Cárabe, M. Schubert, D. Mataras, J. Andreu, F. Roca, D. Pribat	1808
5P-D4-24	IMPROVEMENT OF LIGHT-TRAPPING EFFECT ON MICROCRYSTALLINE SILICON SOLAR CELLS BY USING HIGH HAZE TRANSPARENT CONDUCTIVE OXIDE FILMS M. Kambe, M. Fukawa, N. Taneda, Y. Yoshikawa, K. Sato, K. Ohki, S. Hiza, A. Yamada, M. Konagai	1812
5P-D4-25	A ROLE OF A-SI:H BUFFER LAYER FOR CONTROLLING THE IMPURITY PROFILES NEAR P/I INTERFACE OF MICROCRYSTALLINE SILICON SOLAR CELL S. Taira, M. Shima, K. Murata, M. Tanaka	1816
5P-D4-26	IMPROVEMENT OF MICROCRYSTALLINE SILICON SOLAR CELL BY INSERTION OF BUFFER LAYER TO TCO/P INTERFACE Y. Seto, T. Yamamoto, D. Arai, M. Kondo, A. Matsuda	1820
5P-D4-27	LIGHT SCATTERING PROPERTIES OF SnO₂ AND ZnO SURFACE TEXTURED SUBSTRATES J. Krč, M. Zeman, O. Kluth, F. Smole, M. Topić	1823
5P-D4-28	3-DIMENSIONAL OPTICAL MODEL FOR THIN FILM SILICON SOLAR CELLS J. Springer, A. Poruba, M. Vanecek, W. Reetz, J. Müller, L. Müllerova	1827
5P-D4-29	IMPURITY DIFFUSION EFFECT ON P/I INTERFACE PROPERTIES OF MICROCRYSTALLINE SILICON P-I-N SOLAR CELLS T. Matsui, T. Fujibayashi, Y. Nasuno, M. Kondo, A. Matsuda, H. Fukuhori, Y. Kanemitsu	1831
5P-D4-30	INVESTIGATION OF THE HIGH EFFICIENCY MICROCRYSTALLINE SILICON SOLAR CELL M. Shima, M. Nakagawa, S. Taira, M. Matsumoto, W. Shinohara, S. Matsumi, K. Murata, M. Tanaka	1835
5P-D4-31	ROLE OF THE GLASS/TCO SUBSTRATE IN THIN FILM SILICON SOLAR CELLS J. Müller, B. Rech, H. Schade, P. Lechner, R. Geyer, H. Stiebig, W. Reetz, G. Schöpe	1839
5P-D4-32	INVESTIGATIONS ON THE CURRENT MATCHING OF HIGHLY EFFICIENT STACKED SOLAR CELLS BASED ON AMORPHOUS AND MICROCRYSTALLINE SILICON T. Repmann, J. Kirchhoff, W. Reetz, F. Birmans, J. Müller, B. Rech	1843
5P-D4-33	FIRST HOT-WIRE DEPOSITED TRIPLE JUNCTION SILICON THIN FILM SOLAR CELL R. E. I. Schropp, J. Adams, A. Bink, P. C. P. Bronsveld, J. Francke, R. H. J. Franken, H. D. Goldbach, A. Gordijn, R. J. Jimeney Zambrano, H. Li, R. W. Lof, J. Löffler, G. van der Mark, J. K. Rath, M. Rusche, R. L. Stolk, M. K. van Veen, C.H.M., van der Werf	1847
5P-D4-34	LARGE AREA THIN FILM Si TANDEM MODULE PRODUCTION USING VHF PLASMA WITH A LADDER-SHAPED ELECTRODE M. Noda, T. Nishimiya, K. Yamaguchi, H. Takatsuka, Y. Yamauchi, K. Kawamura, A. Yamada, H. Sonobe, Y. Takeuchi, M. Kuroda	1849
5P-D4-35	A-Si:H/μc-Si:H TANDEM SOLAR CELL BY NOVEL PECVD METHOD K. Niira, H. Senta, T. Nishimura, H. Hakuma, M. Komoda, H. Okui, K. Aramaki, K. Tomita, H. Higuchi, Y. Okada	1852

5P-D4-36	AN INVESTIGATION OF AMORPHOUS SILICON SOLAR CELLS WITH GETTERING LAYER K. Luczak, G. Dubois de Mont-Marin, C. P. Lund, P. J. Jennings, J. L. Cornish	1856
5P-D4-37	ESR STUDIES OF HYDROGENATED NANOCRYSTALLINE SILICON CARBIDE O. Chevaleevski, K. S. Lim, S. Y. Myong, S. Miyajima, M. Konagai	1859
5LN-C-01	EVALUATIONS OF MICROCRYSTALLINE SILICON CELLS BY FAST POLE FIGURE Y. Kobayashi, K. Satake, S. Morita, Y. Yonekura	1863
5LN-C-02	INFLUENCE OF ARGON ON CRYSTALLINE SILICON FILM GROWTH BY ECR PLASMA CVD FOR SOLAR CELLS G. Ekanayake, S. Summers, H. S. Rehal	1867

VI: PV Modules and System Components

6PL-D2-01	PRESENT STATUS OF PHOTOVOLTAIC INDUSTRY AND ISSUES IN THE FUTURE T. Tomita	1873
6PL-D2-02	ADVANCES NEEDED IN STANDARDIZATION OF PV COMPONENTS AND SYSTEMS P. Malbranche, D. Blanquet, P. Boulanger, A. G. de Montgareuil, P. Jourde, P. Malbranche, F. Mattera	1877
6O-B8-01	RESULTS OF 12 YEARS OF MODULE QUALIFICATION TO THE IEC 61215 STANDARD AND CEC SPECIFICATION 503 T. Sample, H. Ossenbrink	1882
6O-B8-02	FIELD TEST RESULTS ON THE STABILITY OF SILICON PHOTOVOLTAIC MODULES MANUFACTURED IN THE 1990'S S. Sakamoto, T. Ooshiro	1888
6O-B8-03	DEVELOPMENT OF RECYCLING AND REUSE TECHNOLOGIES FOR LARGE-AREA Cu(InGa)Se₂-BASED THIN-FILM MODULES K. Kushiya, M. Ohshita, M. Tanaka	1892
6O-B8-04	MULTI LAYER MATERIALS FOR THE ENCAPSULATION OF THIN FILM MODULES B. Erler, S. Degiampietro, A. Skringer, P. Pertl, A. K. Plessing, F. Kessler	1896
6O-B8-05	STABILITY STUDIES ON 0.79 m² SINGLE JUNCTION AND TANDEM a-Si MODULES FABRICATED BY A BATCH PROCESS J. A. A. Selvan, Y. Li, A. E. Delahoy, L. Chen, H. Volltrauer, T. Varvar, D. Jackson, N. B. Urli, R. Lyrdall, Z. Kiss	1899
6O-B11-01	NEW PHOTOVOLTAIC SYSTEMS EXPLOITED BY THE UNIQU CHARACTERISTICS IN THIN FILM Si MODULES Y. Nitta, H. Yamagishi, T. Nomura, K. Minabuchi, M. Kondo, M. Hatta, Y. Tawada	1903
6O-B11-02	MODELLING MODULE PERFORMANCE BASED ON REALISTIC REPORTING CONDITIONS WITH CONSIDERATION TO SPECTRAL EFFECTS T. Helf, T. R. Betts, R. Gottschalg, D. G. Infield, B. G. Beyer, S. R. Williams	1908
6O-B11-03	MODULES INTERNATIONAL CERTIFICATION AND MARKING-FIRST EXPERIENCES R. Kay, A. Bergmann	1912
6O-B11-04	IMPROVEMENT ON ACTUAL OUTPUT POWER OF THIN FILM SILICON HYBRID MODULE A. Nakajima, M. Ichikawa, T. Sawada, M. Yoshimi, S. Fukuda, Y. Tawada, T. Meguro, H. Takata, T. Suezaki, M. Goto, K. Yamamoto, K. Hayashi	1915
6O-B11-05	POWER AND ENERGY PRODUCTION OF PV MODULES STATISTICAL CONSIDERATIONS OF 10 YEARS ACTIVITY N. Cereghetti, E. Burà, D. Chianese, G. Friesen, A. Realini, S. Rezzonico	1919
6P-A9-42	HIGH-VOLTAGE BIAS TESTING OF THIN-FILM PV MODULES N. G. Dhere, S. M. Bet, H. P. Patil	1923
6P-A9-43	ON DYNAMIC AND STATIC I-V CHARACTERISTICS OF SOLAR CELL MODULES HAVING LOW AND HIGH FILL FACTORS D. Chenvidhya, K. Kirtikara, C. Jivacate	1927
6P-A9-44	AN INTEGRATED DESIGN SOFTWARE FOR PHOTOVOLTAIC SYSTEMS H. Matsukawa, P. S. Pimentel, T. Izawa, S. Ike, H. Koizumi, K. Kurokawa	1930
6P-A9-45	MODELLING SHADING ON AMORPHOUS SILICON SINGLE AND DOUBLE JUNCTION MODULES A. Johansson, R. Gottschalg, D. G., Infield	1934
6P-A9-46	AMORPHOUS, MONO- AND POLY-CRYSTALLINE SILICON PV MODULES: A COMPARATIVE STUDY OF THEIR RELATIVE EFFICIENCIES UNDER VARIOUS OUTDOOR CONDITIONS D. Faiman, D. Boukobza, S. Kabalo, B. R. Medwed, V. Melnichak, I. Marki, E. Deheld, H. Oldenkamp	1938

6P-A9-47	GREEN 3R-CONCEPT DESIGN FOR Cd-BASED PV MODULES C. Xu, J. Xu, X. L. Xu, J. Yang, H. Z. Xu, W. Huang, H. Liu, X. Pan	1942
6P-A9-49	THERMOGRAPHY: QUALITY CONTROL FOR MODULE MANUFACTURING N. J. van der Borg, T. R. Burgers	1946
6P-A9-50	DEGRADATION FACTOR ANALYSIS OF CRYSTALLINE-SI PV MODULES THROUGH LONG-TERM FIELD EXPOSURE TEST K. Morita, T. Inoue, H. Kato, I. Tsuda, Y. Hishikawa	1948
6P-A9-51	DEVELOPMENT OF A RECYCLABLE PV-MODULE: TRIAL MANUFACTURING AND EVALUATION T. Doi, I. Tsuda, K. Sakuta, G. Matsui	1952
6P-A9-52	APPLICATION OF A GENERALIZED CURRENT/VOLTAGE MODEL FOR SOLAR CELLS TO OUTDOOR MEASUREMENTS ON A SIEMEN SM 110-MODULE W. Durisch, J. Mayor	1956
6P-A9-53	LONG TERM RELIABILITY EVALUATION OF PV MODULE I. Tsuda, S. Igari, K. Nakahara, K. Takahisa, K. Morita, H. Kato	1960
6P-A9-54	DURASHEET[®] - A NEW HIGH DURABILITY DIAPHRAGM SHEET J. A. Bragagnolo, J. Akita	1964
6P-A9-55	CLIMATIC IMPACT ON THE EFFICIENCY OF A COPPER INDIUM DISELENIDE MODULE W. Durisch, K. Lam, J. Close, H. Kiess	1968
6P-A9-56	A SIMPLE DIAGNOSIS SYSTEM ON SITE FOR SOLAR POWER MODULES USING PULSED LIGHT T. Koyanagi, T. Yanagisawa	1971
6P-A9-57	STUDY ON SHADOW LOSS OF CRYSTALLINE SI PV MODULE AFFECTED BY SCATTERING RATE OF SOLAR IRRADIANCE T. Fujisawa, S. Ohya	1975
6P-A9-58	NEW METHODS FOR SOLAR CELLS MEASUREMENT BY LED SOLAR SIMULATOR S. Kohraku, K. Kurokawa	1977
6P-A9-59	DEVELOPMENT OF THE LOW COST AND ENVIRONMENTAL FRIENDLY BACKING FILM FOR PV MODULE K. Yamauchi, K. Ohkawa, T. Miyuchi, Y. Suzuura	1981
6P-A9-60	RESEARCH & DEVELOPMENT ON RECYCLING TECHNOLOGY OF PHOTOVOLTAIC POWER GENERATION SYSTEMS- SOCIAL SYSTEM FOR PV RECYCLING N. Urashima, T. Masuda, M. Izumina, A. Arita, K. Matsumoto	1985
6P-A9-61	A FIELD METHOD FOR DETERMINING THE EFFICIENCY OF EACH FACE OF A BI-FACIAL PHOTOVOLTAIC MODULE D. Faiman, D. Boukobza, S. Kabalo, B. R. Medwed, V. Melnichak, D. Berman, I. Karki, E. de Held, H. Oldenkamp	1988
6P-A9-62	ECONOMIC EVALUATION ON FUZZY ANALYTIC HIERARCHY PROCESS MODEL FOR RECYCLING Cu(In,Ga)Se₂ PV MODULES C. M. Xu, X. Y. Pan, X. L. Xu, J. Xu, X. J. Yang, W. H. Huang, H. T. Liu	1992
6P-A9-63	RESEARCH AND DEVELOPMENT ON RECYCLING AND REUSE TREATMENT TECHNOLOGIES FOR CRYSTALLINE SILICON PHOTOVOLTAIC MODULES K. Yamashita, A. Umemoto, K. Okamoto	1996
6P-A9-65	UNCOVERED PV-THERMAL DOMESTIC SYSTEMS H. A. Zondag, W. G. van Helden	2000
6P-A9-66	INVESTIGATION OF THE DEGRADATION IN FIELD-AGED PHOTOVOLTAIC MODULES A. B. Rabii, M. Jraidi, A. S. Bouazzi	2004
6P-A9-67	BUILDING-INTEGRATED PHOTOVOLTAICS(BIPV)MODULE DESIGN & EXPERIENCE IN JAPAN T. Takehara, H. Hayashi	2007
6P-D5-01	PERFORMANCE TEST OF AMORPHOUS SILICON MODULES IN DIFFERENT CLIMATES: HIGHER MINIMUM OPERATING TEMPERATURES LEAD TO HIGHER PERFORMANCE LEVELS R. Rütger, G. Tamizh-Mani, J. del Cueto, J. Adelstein, A. D. Montenegro, B. von Roedern	2011
6P-D5-02	ENERGY RATING OF PV MODULES: COMPARISON OF METHODS AND APPROACH R. P. Kenny, G. Friesen, D. Chianese, E. D. Dunlop, A. Bernasconi	2015

6P-D5-03	EFFECT OF AIR MASS FACTOR ON THE PERFORMANCE OF DIFFERENT TYPE OF PV MODULES T. Zdanowicz, T. Rodziewicz, M.Z. Waclawek	2019
6P-D5-04	CHARACTERIZATION OF THE MODULE/ARRAY SIMULATOR USING I-V MAGNIFIER CIRCUIT OF A PN PHOTO-SENSOR H. Nagayoshi	2023
6P-D5-05	PV ENERGY POTENTIAL IN NEPAL HIMALAYAS: ANALYTICAL STUDY ON SEASONAL AND SPATIAL VARIATION OF SOLAR IRRADIANCE FOR PV S. Adhikari, S. Adhikary, M. Umeno	2027
6P-D5-06	INTERCONNECTING MICRO CONTROLLER FOR PV SYSTEMS IN JAPAN H. Koizumi, K. Nagasaka, K. Kurokawa, N. Goshima, M. Kawasaki, Y. Yamashita, A. Hashimoto	2031
6P-D5-09	AFRODITE: POWER AND AESTHETICS FOR THE BUILT ENVIRONMENT E. Van Kerschaver, C. Allebe, T. Szacsvey, P. Renz, T. Zdanowicz, L. Frisson	2035
6P-D5-10	A NEW TYPE OF SCALED - DOWN NETWORK SIMULATOR COMPOSED OF POWER ELECTRONICS K. Takeuchi, H. Koizumi, K. Kurokawa, H. Nagayoshi	2039
6P-D5-11	MINIMIZING ENERGY SHADOW LOSSES FOR LARGE PV PLANTS J. Monedero, F. Dobón, A. Lugo, P. Valera, R. Osuna, L. Acosta, G. N. Marichal	2043
6P-D5-12	THE IMPORTANCE OF SENSORS IN THE DETERMINATION OF BIPV PARAMETERS AND INSTALLATION ENERGY YEILD A. S. Bahaj, R. Braid, P. James	2046
6P-D5-13	FIRST RESULTS OF THE TETRA-TRACK SYSTEM AND CONTROL ELECTRONICS J. Monedero, F. Dobón, A. Lugo, P. Valera, R. Osuna, L. Acosta, G. N. Marichal	2050
6P-D5-14	AN EMPIRICAL SYNTHETIC LAW BETWEEN THE MODULES ENERGY OUTPUT AND THE METEOROLOGICAL DATA A. Guéin deMontgareuil, Y. Delesse, P. Malbrache	2054
6P-D5-15	THE EXPERIMENTAL RESULTS OF AN ISLANDING DETECTION METHOD FOR JAPANESE AC MODULES T. Mizuno, Y. Noda, H. Koizumi, K. Nagasaka, K. Kurokawa, H. Kobayashi	2058
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6P-D5-17	INVERTER UNDERSIZING IN PV-SYSTEMS N. J. van der Borg, T. R. Burgers	2066
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6P-D5-22	A-Si HYBRID SOLAR COLLECTOR P. Sichanugrist, P. Supanich, T. Nualboonruen, K. Sadamoto	2082
6P-D5-23	EFFECTIVE IRRADIANCE ESTIMATION FOR PV APPLICATIONS M. A. Abella, E. Lorenzo, F. Chenlo	2085
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6P-D5-25	AN INTEGRATED SOLAR HOME SYSTEM-HISTORY S. C. Krauter, F. Ochs	2094
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