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1-5	Performance Dependence of Silicon Thin Film Solar Cells on Microstructure of the Materials. S. Ray, S. Mukhopadhyay and T. Jana Indian Association for the Cultivation of Science, Kolkata, India
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1 Syian Kuala University, Banda Aceh, Indonesia 2 Nusa Cendana University, Kupang, Indonesia 3 Haluoleo University, Kendari, Indonesia 4 Dept. of Physics, ITB, Indonesia

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R. Saleh¹, L. Munisa¹ and W. Beyer²
1 Jurusan Fisika, Universitas Indonesia, Depok, Indonesia 2 IPV, Forschungszentrum Julich GmbH, Julich, Germany

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LP1-030	Degradation Behavior of Nanostructure Tailored Si Solar Cells Fabricated by Alternately Hydrogenated Dilution Method. M. Ito, M. Kondo and A. Matsuda AIST, Ibaraki, Japan
LP1-005	Electrical Properties of Doped Hydrogenated Microcrystalline Cubic Silicon Carbide Thin Films. T. Watahiki, S. Miyajima, Y. Yoneyama, A. Yamada and M. Konagai Tokyo Institute of Technology, Tokyo, Japan
LP1-031	Deposition Parameters Optimization of Hydro-generated Microcrystalline Silicon for Application to Solar Cells. X. D. Zhang, F. Zhu, Y. Zhao, J. Sun, C. C. Wei, G. F. Hou, X. H. Geng and S. Z. Xiong Nankai University, China
LP1-016	Effect of CrGa-/FeGa-Pairs on the Performance of Ga-doped, Si-based Solar Cells. S. Beljakowa ¹ , D. Karg ¹ , G. Pensll and J. Schmidt ² 1 University of Erlangen-Nurnberg, Erlangen, Germany 2 Insitut fur Solarenergieforschung Hameln Emmerthal (ISFH), Emmerthal, Germany
LP1-035	Reduction of Light-induced Defects by Nano Structure Tailored Silicon Solar Cells using Low-cost TCO Substrates. D. Arai ¹ , M. Kondo ² , and A. Matsuda ² 1 Nippon Sheet Glass Co., Ltd., Japan 2 AIST, Ibaraki, Japan

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PL-4	Present & Future of Crystalline Si Solar Cells. M. Green UNSW, Sydney, Australia
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	V. Meemongkolkiat Georgia Institute of Technology, Atlanta, U.S.A.
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	W. Guang-Pu and Y. Wan-Tao Shanghai University, Jiading, China
LO9-014	Enhanced Phosphorus Diffusion at Microstructure Defects in Multicrystalline Silicon
	A. Bentzen ¹ , B. G. Svensson ² , and A. Holt ¹ 1 IFE, Kjeller, Norway 2 University of Oslo, Oslo, Norway

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	A. Jager-Waldau European Commission, Ispra, Italy
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	T. Sreethawong, Y. Suzuki and S. Yoshikawa Kyoto University, Kyoto, Japan
10-2	Microstructure and Optoelectronic Properties of B-doped nc-Si:H Thin Films Deposited by PECVD with Different Hydrogen Dilution.
	M. H. Gullanar and R. Q. Cui Shanghai Jiao Tong University, China
10-3	Well Aligned CdS Nanorod/Conjugated Polymer Solar Cells.
	Y. Kang and D. Kim Korea University, Seoul, Korea
10-4	Highly Efficient Dye-Sensitized Solar Cells Using Nanocrystalline Titania Containing Nanotube Structure.
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	L. Larina ¹ , K. H. Kim ¹ , K. H. Yoon ² , M. Konagai ³ and B. T. Ahn ¹ 1 Korea Advanced Institute of Science & Tech, Daejeon, South Korea 2 Korea Institute of Energy Research, Daejeon, Korea 3 Tokyo Institute of Technology, Tokyo, Japan
11-3	Fabrication of Cu(In,Ga)Se₂ Solar Cells with 12% Efficiency.
	S. Bandyopadhyaya and A. K. Pal IACS, Calcutta, India
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	K. Araki ¹ , M. Kondo ¹ , H. Uozumi ¹ , N. J. Ekins-Daukes ² , Y. Kemmoku ³ , M. Yamaguchi ² 1 Daido Steel Co., Ltd., Nagoya, Japan 2 Toyota Technological Inst., Nagoya, Japan 3 Toyohashi Sozo College, Toyohashi, Japan

12-2	Improved High Isolation and Temperature (H.I.T.) Solar Cells and Assembly Technology. E. Ferrando ¹ , L. Brambilla ¹ , M. Caccivio ¹ , A. Zamboni ¹ , R. Romani ¹ , R. Campesato ² , C. Flores ² , G. Gabetta ² , G. Strobl ³ , M. Nell ³ , L. Gerlach ⁴ , H. Ritter ⁴ 1 Galileo Avionica S.p.A., Italy 2 CESI S.p.A, Italy 3 RWE SSP GmbH, Germany 4 ESTEC, Netherlands
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12-4	High Concentration with Miniature Parabolic Dishes and Fiber Optics: An Experimental Photovoltaic Study. E. A. Katz, J. M. Gordon, D. Feuermann, M. Huleihil, S. Meyer and V. Melnichak Ben-Gurion University of the Negev, Sede Boqer Campus, Israel

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13-4	Characterization of Silver Front Contact in a Silicon Solar Cell. C. Khadilkar, S. Kim, T. Pham, A. Shaikh and S. Sridharan Ferro Corporation, Ohio, U.S.A.
13-5	Role of Hydrazine Mono-Hydrate During Texturi-zation of Large Area Crystalline Silicon Solar Cell Fabrication. U. Gangopadhyay ¹ , K. Kim ² , J. Yi ² , A. Kandal ² and H. Saha ¹ 1 IC Design & Fabrication Centre, Jadavpur University, Kolkata, India 2 Sungkyunkwan University, Suwon, Korea

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14-3	Amorphous Si_{1-x}C_xH Films Prepared by Cat-CVD Method Using C₄H₁₀ as a C Source Gas and its Application to Window Layer for Si Thin Film Solar Cells. N. Yoshida ^{1,2} , K. Takemoto ¹ , Y. Yamaguchi ¹ , M. Tsukamoto ¹ , K. Chikusa ¹ , A. Fututa ¹ , T. Itoh ^{1,2} and S. Nonomura ^{1,2} 1 Gifu University, Japan 2 Japan Science & Technology Agency, Kawaguchi, Japan
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	S. Boonyatikarn Chulalongkorn University, Bangkok, Thailand
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	T. Suwannakum, U. Boonbumroong, S. Tei, D. Pongchawee, K. Pewkaew and K. Kirtikara KMUTT, Bangkok, Thailand
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	D. C. Martins, R. Demonti, A. S. de Andrade and O. H. Goncalves INEP, UFSC, Florianopolis, Brazil
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	J. M. Olchowik ¹ , I. Jo.wik ¹ , R. Tomaszewski ² , D. Szymczuk ¹ , J. Adamczyk ¹ , T. Cieplak ¹ , K. Zabielski ¹ , J. Mucha ¹ 1 Lublin University of Technology, Poland 2 Technical University of Biala Podlaska, Poland

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	<u>Study on GaAs/Ge Interface in GaAs Solar Cells on Ge Substrates.</u>
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	<u>Packaging III-V Tandem Solar Cells for Practical Terrestrial Applications Achievable to 27% of Module Efficiency by Conventional Machine Assembly Technology.</u>
17-3	K. Araki, M. Kondo, H. Uozumi, N. J. Ekins-Daukes ¹ , M. Yamaguchi ¹ Daido Steel Co., Ltd., Nagoya, Japan 1 Toyota Technological Institute, Nagoya, Japan
	<u>P-on-N GaInP₂/GaAs Tandem Solar Cells.</u>
17-4	X. B. Xiang ¹ , M. B. Chen ^{2,3} , Z. W. Zhang ² , J. F. Lu ² , L. X. Wang ² W. Y. Chi ² and X.B. Liao ¹ 1 Chinese Academy of Sciences, Beijing, China 2 Shanghai Jiaotong University, China 3 Shanghai Institute of Space Power Sources, China
	<u>MOVPE Growth and Characterization of Dilute In_xGa_{1-x}As_{1-y}N_y on GaAs for 1 eV Bandgap Solar Cells.</u>
17-5	S. Sanorpim ¹ , F. Nakajima ² , R. Katayama ² and K. Onabe ² 1 Chulalongkorn University, Bangkok Thailand 2 The University of Tokyo, Japan
	<u>Quantum Dot Integration in Heterostructure Solar Cells.</u>
17-6	S. Suraprapich, S. Thainoi, S. Kanjanachuchai and S. Panyakeow Chulalongkorn University, Bangkok, Thailand
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18-3	K. Kushiya, Mineo Ohshita and M. Tanaka Showa Shell Sekiyu K. K., Kanagawa, Japan
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	<u>In-Situ Monitoring of the Growth of Cu(In,Ga)Se₂ Thin Films.</u>
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S. Ishizuka¹, K. Sakurai¹, A. Yamada¹, K. Matsubara¹, P. Fons¹, T. Baba², S. Nakamura², H. Nakanishi² and S. Niki¹
1 National Inst. of Advanced Industrial Science and Technology, Ibaraki, Japan 2 Tokyo University of Science, Japan

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Solartron, Bangkok, Thailand

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D. J. Parsons
Thai Photovoltaics Ltd., Bangkok, Thailand

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L. Yi
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C. F. Gay
Greenstar Foundation, Los Angeles, U.S.A.

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P. Thanarak
Naresuan University, Pitsanuloke, Thailand

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M. Watt
UNSW, Sydney, Australia

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Y. Sukamongkol¹, S. Chungpaibulpatana¹, B. Limmechockchai¹ and P. Sripadungtham²
1 SIIT, Thammasat Univ., Pathumthani, Thailand 2 Kasetsart Univ., Bangkok, Thailand

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N. Wongyao, K. Kirtikara, C. Jivacate and D. Chenvidhya
KMUTT, Bangkok, Thailand

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J. Rakwichian¹, J. Schmid¹, W. Rakwichian²
1 Kassel University Wilhelmshoher, Kassel, Germany 2 Naresuan University, Pitsanuloke, Thailand

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J. Thongpron, U. Sangpanich, C. Limsakul, K. Kirtikara and C. Jivacate
KMUTT, Bangkok, Thailand

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S. Thanopanuwat¹ and W. Tayati²
1 Royal Irrigation Dept., Bangkok, Thailand 2 CMU, Chiang Mai, Thailand

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	L. Baojun Shenyang Energy Resource & Biology Material Inst., Shenyang, China
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	H. S. Lee ¹ , H. Okada ² , A. Wakahara ² , T. Ohshima ³ , H. Itoh ³ and A. Yoshida ² 1 Toyota Technological Institute, Nagoya, Japan 2 Toyohashi University of Technology, Toyohashi, Japan 3 Japan Atomic Energy Research Institute, Takasaki, Japan
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K. Nakayashiki¹, D. S. Kim¹, A. Rohatgi¹ and B. R. Bathey²
1 Georgia Institute of Technology, Atlanta, U.S.A. 2 RWE Schott Solar, Inc., Billerica, U.S.A.

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N. Martins¹, P. Canhola¹, A. Alentejano², R. Martins², E. Fortunato³, I. Ferreira³, L. Raniero²
1 PORTSOL, Sintra, Portugal 2 CEMOP and 3 CENIMAT, Lisbon, Portugal

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Tokyo Institute of Technology, Japan

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Shell Solar GmbH, Munich, Germany

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E. Cunow and C. Inglin
Shell Solar GmbH, Munich, Germany

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M. Ito¹, K. Kato², K. Komoto³, T. Kichimi⁴, H. Sugihara⁵ and K. Kurokawa¹
1 TUAT, Tokyo, Japan 2 AIST, Ibaraki, Japan 3 FRIC, Tokyo, Japan 4 RTS, Tokyo, Japan 5 Kandenko Co., Ltd., Ibaraki, Japan

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and P. Fath²
1 Elkem Solar, Oslo, Norway 2 University of Konstanz, Konstanz, Germany

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33-3	Microcrystalline Silicon Thin Film Solar Modules on Glass Substrates. T. Repmann, B. Sehrbrock, C. Zahren, H. Siekmann and B. Rech Forschungszentrum Julich GmbH, Julich, Germany
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33-7	Where and How Does the Current Go in μC-Si:H? I. Balberg ¹ , Y. Dover ¹ , D. Azulay ¹ , O. Millo ¹ , J. P. Conde ² and V. Chu ³ 1 The Hebrew University, Israel 2 Instituto Superior Technico, Lisbon, Portugal 3 INESC, Lisbon, Portugal

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34-2	Renewable Energy Standards Council for Asia: a Proposal by the Institute for Sustainable Power. Z Li ¹ , M. C. Fitzgerald ² , B. McNelis ³ 1 ISPQ-Europe, Aldershot, UK 2 Institute for Sustainable Power, Colorado, USA 3 IT Power, Hampshire, UK
34-3	Application of Advanced Thin Film PV for Kit-of-Parts Temporary & Disaster Relief Structures. J. Close, K. H. Lam, H. Pang and A. S. Howe The University of Hong Kong, China
34-4	Remote Standard Testing for Solar Home System with Mobile Phone. S. Chokmaviroj, W. Rakwichian, N. Ketjoy Naresuan University, Pitsanuloke, Thailand
34-5	New Generation of V/F-Static's Controlled Battery Inverter Sunny IslandR : The Key Component for AC Coupled Hybrid Systems and Mini Grids. M. Wollny ¹ , M. Mike ¹ , R. Martin ¹ and E. Alfred ² 1 SMA Regelsysteme GmbH, Niestetal, Germany 2 ISET, Kassel, Germany
34-6	Analysis and Comparison of Single Phase Grid Connected PV Inverter Topologies. K. Y. Cheng and Y. Y. Tzou National Chiao Tung University, Taiwan
34-7	Hydraulic Moment Solar Tracker System for Best Performance of PV Modules. S. Saikasem ¹ and P. Sirepuekpong ² 1 Kasetsart University, Bangkok, Thailand 2 EGAT, Nonthaburi, Thailand
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35-3	<u>(Invited) Application of Photovoltaic Technology in Nepal: Its Contribution in Avoidance of GHG Emissions.</u> J. N. Shrestha and S. R. Shakya Tribhuvan University, Patan, Nepal
35-4	<u>(Invited) Application of Solar and Other New Energy Resources for Electrification of Remote Areas in the North of Vietnam</u> D. D. Hoat National Centre for Natural Science and Tech. of Vietnam, Hanoi, Vietnam
35-5	<u>PV Energy Systems Playing More Important Role in Developing Remote Areas in Western China.</u> Z. Liu, Jiehui Li, H. Liao, Z. Zhang, Jingtian Li, J. Lie, Z. Li, T. Chen, M. Wang Yunnan Normal University, China
35-6	<u>Rural Electrification in Bolivia with Photovoltaic Systems: The Inti Kanchay Pilot Plan.</u> M. F. Fuentes ¹ , M. E. M. Udaeta ² , O. F. Affonso ² and F. S. Ribeiro ² 1 ENERGETICA, Cochabamba, Bolivia 2 GEPEA-USP, Sao Paulo, Brazil
35-7	<u>Solar Energy in Sudan.</u> A. M. Omer University of Nottingham, UK
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36-2	<u>(Invited) Mae Hong Son PV Demonstration Power Plant.</u> S. Kokkamhaeng and A. Dilogsopon EGAT, Nonthaburi, Thailand
36-3	<u>(Invited) Advantages and Disadvantages of Using Amorphous Silicon PV Modules in the ASEAN Region.</u> J. L. Bergman Thai Photovoltaics Ltd., Bangkok, Thailand
36-4	<u>Regulation of Power Purchasing from Very Small Power Producers using Renewable Energy in Thailand.</u> B. Kamonsin and P. Sripattananon PEA, Bangkok, Thailand
36-5	<u>Need for Standards for Grid Connected Photovoltaic Systems in Malaysia.</u> S. Mekhilef and N. A. Rahim Univ. of Malaya, Kuala Lumpur, Malaysia
36-6	<u>Application of PV Power Generation in Xinjiang, China.</u> G. Yu, T. Lei, L. Kang, L. Ren, X. Huang, J. Wu and C. Wu Xinjiang SunOasis Co., Ltd, Xinjiang, China
36-7	<u>Development and Prospect of PV Power Generation in China.</u>

X. Honghua, M. Shenghong and C. Zhenbin
Chinese Academy of Sciences, Beijing, China

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[Development of Maps from Satellite Data of Solar Energy Potential in Thailand.](#)

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