

7. BIBLIOGRAPHY

- [1] A.W. Bett at al. "Flatcon and flashcon concepts for high concentration PV", 19th European Photovoltaic Solar Energy Conference 7-11 June 2004.
- [2] M.J.O'Neil at al. "Recent Technology Advances for the stretched lens arrays (SLA), a space solar array offering state of the art performance at low cost and ultra-light mass", 31th IEEE Photovoltaic Specialist Conference, January 2005.
- [3] C.Bingham at al. "Concentrating Photovoltaic module testing at NREL's Concentrating Solar Radiation Users Facility". NCPV and Solar Program Review Meeting 2003.
- [4] J.L Alvarez at al. "Experimental measurements of RXI concentrators for Photovoltaic application." 2nd World Conference and Exhibition on Photovoltaic Solar Energy Conversion 6-10 July, 1998 pp. 2233-2236.
- [5] Raed A Sherif at al. "The path to 1GW of Concentrator Photovoltaics Using Multijunction Solar cells". 31st IEEE Photovoltaic Specialist Conference, January 2005.
- [6] Lewis M. Fraas at al., "Towards 40% and higher Solar cells in a new Cassegranian PV module", 31st IEEE Photovoltaic Conference, 2005 Orlando USA.
- [7] G. Martinelli, "Dichroic Flat faceted concentrator for PV Use". International Conference on for Solar Concentrators for the Generation of the Electricity or Hydrogen, May 1-5 2005, Scottsdale, Arizona, USA.
- [8] M-Alonso Abella at al. "Operation of standard PV modules in v-through concentrators". 31st IEEE Photovoltaic Specialist Conference, January 2005
- [9] C.Flores. "Low cost process for ohmic contacts on GaAs/Ga_{1-x}Al_xAs concentrator solar cells based on palladium and gold deposition" **Solar Cells** Volume 9, Issue 3 August 1983, Pages 169-177
- [10] Kurtz, S.; Bett, A.; Hartsoch, N. (2010). Technology Overview: Concentrator PV 2010 Boot Camp (CPV) (Presentation). 49 pp.; NREL Report No. PR-5200-49713.
<http://nrelpubs.nrel.gov/Webtop/ws/nich/www/public/Record?rpp=25&upp=0&m=7&w=NATIVE%28%27KEYWORD2+ph+words+%27%27Multijunction+solar+cells%27%27%27%29&order=native%28%27pubyear%2FDescend%27%29>
- [11] McConnell, R.; Symko-Davies, M. (2006). Multijunction Photovoltaic Technologies for High-Performance Concentrators: Preprint. 6 pp.; NREL Report No. CP-520-39791
<http://nrelpubs.nrel.gov/Webtop/ws/nich/www/public/Record?rpp=25&upp=0&m=11&w=NATIVE%28%27KEYWORD2+ph+words+%27%27Multijunction+solar+cells%27%27%27%29&order=native%28%27pubyear%2FDescend%27%29>
- [12] From "A Strategic Research Agenda for Photovoltaic Solar Energy Technology" Edition 2-2011. pag.51.
- [13] APS installation and operation of 300kW of Amonix high concentration PV systems, IEEE Photovoltaic Specialist Conf. 2002
- [14] (<http://www.isfoc.es/>)
- [15] G. Timò at al. "First results on the APOLLON Project Multi-APPrOach for high efficiency integrated and intelLigent cONcentrating PV modules (Systems)" Proceeding of IEEE 34, Photovoltaic Specialist Conference 2009
- [16] In italy the 4th Conto Energia was passed in May 2011 (Gaz 2011). The decree applies to plants connected after 31 May 2011 and before 31 December 2016.
- [17] A. Gombert, T. Gerstmaier, I. Heile, S. van Riesen, M. Röttger, J. Wüllner, ANALYSIS OF LONG TERM OPERATION DATA OF FLATCON® CPV SYSTEMS, 25th European Photovoltaic Solar Energy Conference and Exhibition / 5th World Conference on Photovoltaic Energy Conversion, 6-10 September 2010, Valencia, Spain
- [18] Wolfgang Guter and Andreas W. Bett, IV-CHARACTERIZATION OF DEVICES CONSISTING OF SOLAR CELLS AND TUNNEL DIODES, Presented at the 2006 IEEE 4th World Conference on Photovoltaic Energy Conversion, May 7- 12, 2006, Hawaii
- [19] Gianluca Timò, "Introduction of a new CPV-CELL Economical Performance Index". 1st Workshop on Concentrating Photovoltaics, Marburg, 10-12 October 2007
- [20] S. Wojtczuk, P. Chiu, X. Zhang, D. Pulver, C. Harris and B. Siskavich, 42% 500X Bi-Facial Growth Concentrator Cells, CPV-7 Las Vegas 2011.
- [21] Bob Conner, "Microcell-based HCPV Panel", 3rd Concentrated Photovoltaic summit Europe Seville November 18th, 2010
- [22] Gianluca Timò, OPTIMIZATION OF POINT FOCUS AND MIRROR BASED SPECTRA SPLITTING CPV SYSTEMS: RESULTS FROM THE APOLLON PROJECT, Proceeding of the 26th European Photovoltaic Solar Energy Conference, Hamburg, Germany, 5-9 September 2011
- [23] Thomas N. D. Tibbits, "Cell bandgap engineering in CPV cells" 3rd Concentrated Photovoltaic summit Europe Seville November 18th, 2010
- [24] Simon Fafard, 3rd Concentrated Photovoltaic summit Europe Seville November 18th, 2010
- [25] Dimroth, F.; Guter, W.; Schone, J.; Welser, E.; Steiner, M.; Oliva, E.; Wekkeli, A.; Siefer, G.; Philipps, S.P.; Bett, A.W.; Metamorphic GaInP/GaInAs/Ge triple-junction solar cells with >41 % efficiency , Proceeding of Photovoltaic Specialists Conference (PVSC), 2009 34th IEEE - <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5401175>

- [26] R.King at al. Solar Cell generations over 40% efficiency, 26th European Photovoltaic Solar Energy Conference and Exhibition, 5-9 September 2011, Hamburg, Germany
- [27] A.Martí and A.Luque, EXPERIMENTAL ADVANCES IN THE NEXT GENERATION OF SOLAR CELLS, 25th European Photovoltaic Solar Energy Conference and Exhibition / 5th World Conference on Photovoltaic Energy Conversion, 6-10 September 2010, Valencia, Spain
- [28] Newman, F.; Aiken, D.; Patel, P.; Chumney, D.; Aeby, I.; Hoffman, R.; Sharps, P, Optimization of inverted metamorphic multijunction solar cells for field-deployed concentrating PV systems , Photovoltaic Specialists Conference (PVSC), 2009 34th IEEE - <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5401175>
- [29] J.F. Geisz, S.R. Kurtz, M.W. Wanlass, J.S. Ward, A. Duda, D.J. Friedman, J.M. Olson, W.E. McMahon, T.E. Moriarty, J.T. Kiehl, M.J. Romero, A.G. Norman, and K.M. Jones, "Inverted GaInP / (In)GaAs / InGaAs Triple-Junction Solar Cells with Low-Stress Metamorphic Bottom Junctions" Presented at the 33rd IEEE Photovoltaic Specialists Conference San Diego, California May 11–16, 2008
- [30] M.A. Green, G. Conibeer, E-C. Cho, D. König, S.J. Huang, D. Song, G. Scardera, Y-H. Cho, X.J. Hao, T. Fangsuwannarak, S.W. Park, I. Perez Wurfl, Y. Huang, S. Cheng, E. Pink, D. Bellet, E. Bellet-Amalric and T. Puzzer, PROGRESS WITH SILICON-BASED TANDEM CELLS USING SILICON QUANTUM DOTS IN A DIELECTRIC MATRIX, 23rd European Photovoltaic Solar Energy Conference and Exhibition, 1-5 September 2008, Valencia, Spain
- [31] Ngai Lam Alvin Chan, Helen E. Brindley, Nicholas J. Ekins-Daukes, "Atmospheric Variations And The Optimum Number Of Junctions In A Multijunction Concentrator System", CPV- 7 Las Vegas 2011.
- [32] S. Kurz, "Opportunities and Challenges for Development of a Mature Concentrating Photovoltaic Power Industry", Technical Report NREL/TP-520-43208 Revised July 2010
- [33] K. C. Heasman, L.M. Brown, A. Cole, S. Devenport, K. Drew, D. Morrison, T. M. Bruton, L. Serenelli, S. De. Iulii and F. Roca, "20% Laser grooved buried contact Cz silicon solar cells for the Apollon project" Proceeding of 26th European Photovoltaic Solar Energy Conference, Hamburg, Germany, 5-9 September 2011.
- [34] V.D. Romyantsev, "Solar concentrator modules with silicone-on-glass Fresnel lens panels and multijunction cells", 26 April 2010 / Vol. 18, No. S1 / OPTICS EXPRESS A17
- [35] V.M. Andreev, A.A Soluyanov, M.Z.Shvarts, "Development of lens concentration systems with secondary optical elements", CPV-6. Fribur, Germany, 7-9 April, 2010
- [36] JC Miñano, P. Benítez, P. Zamora, M. Buljan, A. Cvetković, M. Hernandez, R. Mohedano, J. Chaves, O. Dross, "Latest Results in Optics for CPV: Free-form Köhler arrays" , 3rdConcentrated Photovoltaic summit Europe Seville November 18th 2010
- [37] <http://www.solfocus.com/en/technology/>
- [38] A. Antonini at al. "Mirror base spectrum splitting systems" Proceeding of 26th European Photovoltaic Solar Energy Conference, Hamburg, Germany, 5-9 September 2011
- [39] Mariska de Wild-Scholten, ENVIRONMENTAL PROFILE OF PV MASS PRODUCTION: GLOBALIZATION, 26th European Photovoltaic Solar Energy Conference, Hamburg, Germany, 5-9 September 2011.
- [40] Olivier Stalter and Bruno Burger; "Sensorless and power- optimized sun tracking for CPV applications using a dual axis trackers", CPV-6. Freiburg, Germany, 7-9 April, 2010
- [41] R.L.Johnson at al." Integrated closed loop tracking system for rooftop concentrator modules", CPV-6. Fribur, Germany, 7-9 April, 2010
- [42] Ishtiaq Maqsood and Mahieddine Emziane, " Intelligent sun tracking for CPV power plant", Germany, 7-9 April, 2010
- [43] Prof. Humayun Mughal, "Lowering CPV Cost and Increasing Sales Volume", 3rdConcentrated Photovoltaic summit Europe Seville November 18th, 2010.
- [44] Andreas Gombert at al. Field performance of Flatcon power plants and demo systems", CPV-6. Fribur, Germany, 7-9 April, 2010.F.
- [45] Rubio at al. "Evaluation parameters for CPV Production" ", CPV-6. Freiburg, Germany, 7-9 April, 2010
- [46] Bob Conner, " Microcell-based HCPV Panel", 3rdConcentrated Photovoltaic summit Europe Seville November 18th, 2010
- [47] Naoki Shibata¹, Yasuyuki Ota¹, Yuya Sakurada¹, Yasuhiro Takahashi², Isao Kumagai², Kenji Araki², and Kensuke Nishioka¹, " Output Comparison of CPV And Flat-Plate Systems In Japanese Meteorological Condition, CPV 7 Las Vegas , 2011
- [48] Skyline Solar White paper April 2011
- [49] Richard Hoffman, Damien Buie*, David King* and Thomas Glesne "Performance of Emcore Third Generation CPV Modules in the Low Latitude Marine Environment of Hawaii", CPV 7 Las Vegas. 2011
- [50] http://ec.europa.eu/research/energy/pdf/sra_photovoltaic_en.pdf
- [51] <http://www.eupvplatform.org/publications/strategic-research-agenda-implementation-plan.html>
- [52] Source 2007-2009, EPRI; 2010-2105 CPV Consortium 2010 Report.