

**A - articles et communications publiés dans revues à comité de lecture**

- [1] Y.T. Gizachew, L. Escoubas, J.J. Simon, **M. Pasquinelli**, J. Loiret, P.Y. Leguen, J.C. Jimeno, J. Martin, A. Apraiz, J.P. Aguerre.  
Towards ink-jet printed fine line front side metallization of crystalline silicon solar cells  
**Sol. Energy Mater. Sol. Cells (SOLMAT)** (2011), doi:10.1016/j.solmat.2010.12.031
- [2] G. Rivière, J.J. Simon, L. Escoubas, W. Vervisch, and **M. Pasquinelli**  
Photo-electrical characterizations of plastic solar modules  
**Sol. Energy Mater. Sol. Cells (SOLMAT)** (2012) volume: 102 pages: 19-25  
doi: 10.1016/J.SOLMAT.2012.01.030
- [3] L.Bounaas, N. Auriac, B. Grange, J. Jourdan, S. Mialon, R. Monna, S. De Magnienville, **M. Pasquinelli**, D. Barakel  
Development of high efficiency back passivated solar cells with screen printing contacts.  
**Energy Procedia** 27 (2012) pp 598-603.
- [4] D. Hocine, M.S. Belkaid, **M. Pasquinelli**, L. Escoubas, P.Torchio, A.Moreau  
Optical Modeling and Characterization of TiO<sub>2</sub> antireflection Coating Elaborated by APCVD for Monocrystalline Silicon Solar Cells.  
**International Review of Physics (I.R.E.PHYS)** Vol.6, N.5, October 2012
- [5] B. Rezgui, V. Mong-The Yen, I. Périchaud, D. Barakel, **M. Pasquinelli** and O. Palais, "Behaviour of Light Induced Defect Generation and Carrier Lifetime Degradation in Solar Grade Silicon",  
**Materials Science Forum** Vol. 725 (2012) pp 141-144
- [6] L.Bounaas, N. Auriac, B. Grange, R. Monna, M. Pirot, S. DeVecchi, J. Jourdan, S. Mialon, **M. Pasquinelli** and D. Barakel  
Laser ablation of dielectric layers and formation of local Al-BSF in dielectric back passivated solar cells.  
**Energy Procedia** 38 (2013) pp 670-676
- [7] K. Lagha-Menouer, M.S. Belkaid, **M. Pasquinelli**  
Electrical, Optical and Structural Properties of Tin Oxide Thin Films Deposited by APCVD  
**Advanced Materials Research** Vol. 651 (2013) pp 38-41
- [8] Vauche, L., J. Dubois, A. Laparre, F. Mollica, R. Bodeux, S. Delbos, C. M. Ruiz, **M. Pasquinelli**, F. Bahi, T. G. de Monsabert, S. Jaime, S. Bodnar, and P.-P. Grand  
Cu<sub>2</sub>ZnSnSe<sub>4</sub> thin film solar cells above 5% conversion efficiency from electrodeposited Cu Sn Zn precursors: **Physica Status Solidi (a)**-Applications and Materials Science, v. 211, p. 2082-2085. (2014)
- [9] Vauche, L., Dubois, J., Laparre, A., **Pasquinelli, M.**, Bodnar, S., Grand, P.-P., & Jaime, S.  
Rapid thermal processing annealing challenges for large scale Cu<sub>2</sub>ZnSnS<sub>4</sub> thin films.  
**Physica Status Solidi (a)**, **212**(1), 103–108. (2015).
- [10] D. Hocine, M. S. Belkaid, **M. Pasquinelli**, L. Escoubas, P. Torchio, and A. Moreau.  
Characterization of TiO<sub>2</sub> antireflection coating elaborated by APCVD for monocrystalline silicon solar cells.  
**Physica Status Solidi (c)**, 1–4 (2015) / DOI 10.1002/pssc.201400085
- [11] L. Vauche, L. Risch, Y. Sánchez, M. Dimitrievska, **M. Pasquinelli**, T. Goislard de Monsabert, P.-P. Grand, S. Jaime-Ferrer and E. Saucedo  
8.2% pure selenide kesterite thin-film solar cells from large-area electrodeposited precursors  
**Progress in Photovoltaic : Res. Appl.** (2015)- DOI: 10.1002/pip.2643
- [12] L. Vauche, J. Dubois, A. Laparre, **M. Pasquinelli**, S. Bodnar, P.-P. Grand, and S. Jaime, "Rapid thermal processing annealing challenges for large scale Cu<sub>2</sub>ZnSnS<sub>4</sub> thin films," **Phys. Status Solidi (a)** Volume 212, Issue 1, pages 103–108, January 2015- DOI: 10.1002/pssa.201431387

**B - Communications avec ou sans publications dans des comptes rendus de conférences édités ou des revues.**

- [1] D. Hocine, **M. Pasquinelli**, L. Escoubas, MS. Belkaid  
Effect of annealing on the physicochemical and optical properties of the APCVD titanium dioxide thin films for photovoltaic applications  
International Conference on Renewable Energies and Power Quality (ICREPQ'11), 13-15 April 2011, Las Palmas, Spain
- [2] K. Lagha, MS Belkaid, **M. Pasquinelli**, D. Barakel, L. Escoubas  
Annealing of ZnO and SnO<sub>2</sub> transparent conductive oxides  
International Conference on Renewable Energies and Power Quality (ICREPQ'11), 13-15 April 2011, Las Palmas, Spain
- [3] **M. Pasquinelli**, D. Barakel  
Serial resistance effect on p-type and n-type silicon concentrated solar cells  
CLEAN ELECTRICAL POWER Renewable Energy Resources Impact Ischia – Italy June 14th-16th, 2011
- [4] V. Mong-The Yen, O. Palais, I. Périchaud, D. Barakel and **M. Pasquinelli**,  
Investigation of light induced degradation (lid) phenomenon in different multicrystalline silicon,  
26<sup>th</sup> European PV Conference, Hamburg (Germany), September 2011.
- [5] V. Mong-The Yen, O. Palais, **M. Pasquinelli**, D. Barakel and I. Périchaud,  
Relationship between interstitial oxygen, substitutional carbon, resistivity and minority carrier lifetime in metallurgical multicrystalline silicon,  
International Conference on Renewable Energies and Power Quality (ICREPQ'11) – Gran Canaria, Spain, March 2011.
- [6] L.Chibane, MS.Belkaid, **M. Pasquinelli**, H.Derbal-Habak, J-J. Simon, D.Hocine, O.Boudia  
Development of Molybdenum trioxide (MoO<sub>3</sub>) by spin coating method for photovoltaic application.  
International Conference on Renewable Energies and Power Quality (ICREPQ'12) Santiago de Compostela (Spain), 28th to 30th March, 2012
- [7] D. Hocine, MS. Belkaid, **M. Pasquinelli**, L. Escoubas, J.J. Simon, G. Rivière, A. Moussi  
3% absolute efficiency gain on multicrystalline silicon solar cells by TiO<sub>2</sub> antireflection coating by APCVD process.  
International Conference on Renewable Energies and Power Quality (ICREPQ'12) Santiago de Compostela (Spain), 28th to 30th March, 2012
- [8] L.Bounaas, N.Auriac, B.Grange, J.Jourdan, S.Mialon, R.Monna, S.De Magnienville, **M.Pasquinelli**, and D.Barakel  
Development of high efficiency back passivated silicon solar cells with screen printed contacts  
International Conference on Silicon PV: April 03-05, 2012, Leuven, Belgium
- [9] **M. Pasquinelli**  
Normalized area solar cell and potential applications  
Colloque CASAMANSUN EnR 2012-13-15 May 2012 (Ziguinchor) –(Sénégal)
- [10] L.Bounaas, N.Auriac, B.Grange, R.Monna, P-J.Ribeyron, **M.Pasquinelli** and D.Barakel  
Investigation of laser ablation for back passivated silicon solar cells  
PHOTOVOLTAIC TECHNICAL CONFERENCE – PVTC – Aix-May, 2012
- [11] L. Vauche, J. Dubois, A. Laparre, F. Mollica, R. Bodeux, S. Delbos, C.M. Ruiz, **M. Pasquinelli**, F. Bahi, T. Goisard de Monsabert, S. Jaime, S. Bodnar, P-P Grand.  
Cu<sub>2</sub>ZnSnSe<sub>4</sub> Thin Film Solar Cells above 5% Power Conversion Efficiency from Electrodeposited Cu Sn Zn Precursors  
E-MRS 2013 Fall Meeting – Warsaw - 18/09/2013
- [12] M.Toure, B. Berenguier<sup>1</sup>, L. Ottaviani, **M. Pasquinelli**, O. Palais, P.Di Lauro, M.Portail, S. Chenot, Diouma Kobor  
New 3C Silicon Carbide on Silicon Hetero-junction Solar Cells for UV collection enhancement  
MRS Spring Conference 2014 - San Francisco. 21-25 avril 2014

- [13] D. Hocine, M.S. Belkaid, **M. Pasquinelli**, L. Escoubas, P. Torchio, A. Moreau  
Characterization of TiO<sub>2</sub> antireflection coatings elaborated by APCVD for monocrystalline silicon solar cells  
E-MRS Spring Meeting 2014 May 26-30 Lille, France
- [14] C.M.Ruiz, A.Moreau, J.J.Simon, **M. Pasquinelli**, S. López-Mariño, M. Neuschitzer, A. Fairbrother, E. Saucedo, V. Bermúdez, and L. Escoubas  
**Understanding the Effect of Secondary Phases and Ordering/Disordering in Kesterites Structure through Photoreflectance**  
PHOTOVOLTAIC TECHNICAL CONFERENCE – PVTC – Aix-May, 2014
- [15] L. Vauche, L. Risch, E. Saucedo, C.M. Ruiz, **M. Pasquinelli**, J.-J. Simon, T. Goislard de Monsabert, S. Jaime, P.-P. Grand.  
6.9% Cu<sub>2</sub>ZnSnSe<sub>4</sub> THIN FILM SOLAR CELLS FROM ELECTRODEPOSITED PRECURSORS  
*5th European Kesterite Workshop, 13-14 November 2014, Tallin*
- [16] B. Berenguier M. Toure, L. Ottaviani, O. Palais, J Le Rouzo, **M. Pasquinelli**, P. Di Lauro, M. Portail, S Chenot, T. Wood, D. Kobor.  
**New Hetero-Junction Solar Cells Made of 3C-SiC Layers Deposited on Si.**  
PHOTOVOLTAIC TECHNICAL CONFERENCE – PVTC – Aix-May, 2014
- [17] L. Vauche, L. Risch, E. Saucedo, **M. Pasquinelli**, T. Goislard de Monsabert, P-P. Grand, S. Jaime.  
Detrimental effect of Sn-rich secondary phases on Cu<sub>2</sub>ZnSnSe<sub>4</sub> based solar cells  
PHOTOVOLTAIC TECHNICAL CONFERENCE – PVTC – Aix-May, 2015
- [18] L. Escoubas, J.-J. Simon, **M. Pasquinelli**, F. Flory, G. Berginc  
Transformation d'un flux lumineux en courant – in La Revue de Marseille – Octobre 2015

### **C - COMMUNICATIONS ET SEMINAIRES INVITES DANS DES COLLOQUES SANS PUBLICATION**

- [1] M.Pasquinelli  
Serial resistance effect on CPV solar cells  
Université Assane Seck de Ziguinchor, Sénégal, Mai 2012
- [2] M.Pasquinelli  
Les matériaux, dispositifs et méthodes de caractérisation pour la conversion photovoltaïque  
Université de Constantine, Algérie, Novembre 2013
- [3] **M.Pasquinelli**, J. Le Rouzo, D. Barakel  
Fiabilité des modules photovoltaïques  
Université de Constantine, Algérie, Mai 2015
- [4] J. Le Rouzo, D. Duche, C. Ruiz-herrero, J-J. Simon, **M. Pasquinelli**, F. Flory, L. Escoubas  
Nouveaux matériaux, nouvelles approches : les récentes avancées du solaire photovoltaïque  
Journées Nationales sur l'Énergie Solaire, Perpignan, France, 1-3 juillet 2015
- [5] M.Pasquinelli  
Impact of nanotechnology on the opto-electrical properties of photovoltaic solar cells  
First Franco-Italian meeting on Nanosciences, Porquerolles, 6<sup>th</sup> and 7<sup>th</sup> September 2015
- [6] M.Pasquinelli  
Photovoltaic advanced solutions – Bilateral Scientific Meeting- AMU-Technion-Israel Institute of Technology, Marseille, 12<sup>th</sup> and 13<sup>th</sup> November 2015.