

**ACL : Articles dans des revues internationales ou nationales avec comité de lecture répertoriées par l'AERES ou dans les bases de données internationales (ISI Web of Knowledges, Pub Med...)**

**ACL-2014-1** Q.-B. BUI, J. C. MOREL, S. HANS, P. WALKER. **Effect of moisture content on the mechanical characteristics of rammed earth**, *Construction and Building Materials*, 54 (2014) 163–169. IF: 2.265

**ACL-2014-2** R. GOULET, R. KNIKKER, E. BOUDARD, B. STUTZ, J. BONJOUR, **A numerical and experimental analysis of the process of water vapour absorption by a static lithium bromide solution**, *Int J Heat Mass Transfer* DOI: 10.1007/s00231-013-1248-2. IF: 0.929

**ACL-2014-3** Y.-W. KIM, J. RAMOUSSE, G. FRAISSE, P. DALICIEUX, P. BARANEK, **Optimal sizing of a thermoelectric heat pump (THP) for heating energy-efficient buildings**, *Energy and Buildings*, Volume 70 (2014) 106–116. IF: 2.465

**ACL-2014-4** T.-T. BUI, Q.-B. BUI, A. LIMAM, S. MAXIMILIEN, **Failure of rammed earth walls: from observations to quantifications**, *Construction and Building Materials* 51 (2014) 295–302. IF: 2.265

**ACL-2014-5** T.-T. BUI, A. LIMAM, Q.-B. BUI. **Characterization of vibration and damage in masonry structures: experimental and numerical analysis**, *European Journal of Environmental and Civil Engineering*, Feb 2014. IF: 0.437

**ACL-2014-6** J.-V.-D. SOUZA, G FRAISSE, M PAILHA, S XIN. **Experimental study of partially heated cavity of an integrated collector storage solar water heater (ICSSWH)**, *Solar Energy*, Volume 101 (2014) 53–62. IF: 3.541

**ACL-2014-7** A GONDA, P LANCEREAU, P BANDELIER, L LUO, Y FAN, S BENEZECH. **Water falling film evaporation on a corrugated plate**, *International Journal of Thermal Sciences*, Volume 81, July 2014, Pages 29–37. IF: 2.563

**ACL-2014-8** Y. WU, A. BADEL, F. FORMOSA, W. LIU, A. AGBOSSOU. **Self-powered optimized synchronous electric charge extraction circuit for piezoelectric energy harvesting**. *Journal of Intelligent Material Systems and Structures*, Volume: 25 Issue: 17 Pages: 2165-2176, nov (2014) 2-13. IF: 1.523

**ACL-2014-9** Y. WU, A. BADEL, F. FORMOSA, W. LIU, A. AGBOSSOU. **Nonlinear vibration energy harvesting device integrating mechanical stoppers used as synchronous mechanical switches**. *Journal of Intelligent Material Systems and Structures*, Volume: 25 Issue: 14 Pages: 1658-1663, sept (2014) . IF: 1.523

**ACL-2014-10** E. FERRIER, A. AGBOSSOU, L. MICHEL, **Mechanical behaviour of ultra-high-performance fibrous-concrete wood panels reinforced by FRP bars**, *Composites Part B: Engineering*, Volume 60, April (2014), Pages 663-672. IF: 2.602

**ACL-2014-11** S. CHAKRABORTY , P.-K. NGUYEN, C. RUYER-QUIL, V. BONTOZOGLOU **Extreme solitary waves on falling liquid films**, *J. Fluid Mech.* (2014), vol. 745, pp. 564–591 doi:10.1017/jfm.2014.91. IF: 2.294

**ACL-2014-12** M. PRADAS, D. TSELUIKO, C. RUYER-QUIL, S. KALLIADASIS **Pulse dynamics in a power-law falling film**, *J. Fluid Mech.* (2014), vol. 747, pp. 460–480 doi:10.1017/jfm.2014.176. IF: 2.294

**ACL-2014-13** G. LEPAGE, G. PERRIER, G. MERLIN, X. DOMINGUEZ-BENETTON, N. ARYAL. **Multifactorial evaluation of the electrochemical response of a microbial fuel cell**. *RSC Advances*, 2014, 4(45), 23815-23825. IF: 2.56

**ACL-2014-14** G. LEPAGE, G. PERRIER, J. RAMOUSSE, G. MERLIN. **Firsts steps towards a two-dimensional constructal microbial fuel cell**. *Bioresource Technology*, 2014 Vol 162, P.123-128. IF: 4.75

**ACL-2014-15** C. N. HA THUC, H. T. CAO, D. M. NGUYEN, M. A. TRAN, L. DUCLAUX, A.-C. GRILLET, H. HA THUC, **Preparation and Characterization of Polyurethane Nanocomposites Using Vietnamese Montmorillonite Modified by Polyol Surfactants**, *Journal of Nanomaterials*, Volume 2014 (2014), Article ID 302735, 11 pages. IF: 1.611

**ACL-2014-16** X.MOCH, M.PALOMARES, F.CLAUDON, B. SOUYRI, B. STUTZ, **Geothermal helical heat exchangers: Comparison and use of two-dimensional axisymmetric models**, *accepted for publication in Applied Thermal Engineering*, Volume 73, Issue 1, 2014, Pages 689–696. IF: 2.624

**ACL-2014-17** Q.-B. BUI, S. HANS, C. BOUTIN **Dynamic behaviour of an asymmetric building: experimental and numerical studies**, *Case Studies in Nondestructive Testing and Evaluation*, Volume 2, 2014, Pages 38–48. IF: NC

**ACL-2014-18** Q B BUI, M MOMMESSIN, P PERROTIN, J P PLASSIARD, O PLÉ. **Assessing local-scale damage in reinforced concrete frame structures using dynamic measurements**, *Engineering Structures*, 2014, pp. 22-31. . IF: 1.767

**ACL-2014-19** J. BERGER, M. CHHAY, S. GUERNOUTI, M. WOLOSZYN, **Proper Generalised Decomposition for solving coupled heat and moisture transfers**, *Journal of Building Performance Simulation* (accepted 03/06/2014). IF: 2.043

**ACL-2014-20** B. LECHENE, G. PERRIER, K. EMMANOUIL et al. **Design of intermediate layers for solution-processed tandem organic solar cells: Guidelines from a case study on TiOx and ZnO**, *Solar Energy Materials And Solar Cells* Volume, 120 Special Issue, Pages: 709-715 Published: JAN 2014. IF: 4.63

**ACL-2014-21** B. LECHÊNE, J. LEROY, O. TOSONI, R. DE BETTIGNIES, G. PERRIER, **Origin of the S-shape upon aging in standard organic solar cells with ZnO as transport layer**, *Journal of Physical Chemistry C* (2014). doi.org/10.1021/jp5051518. IF: 4.835

**ACL-2014-22** N'TSOUKPOE K. E., PERIER-MUZET M., LE PIERRÈS N., LUO L., MANGIN D., **Experimentation of a LiBr-H<sub>2</sub>O , absorption process with crystallisation of the solution for solar thermal storage**, *Solar Energy* 104, p.2- 15, juin 2014. IF: 3.541

**ACL-2014-23** N. KOFMAN, S. MERGUI, C. RUYER-QUIL **Three-dimensional instabilities of quasi-solitary waves in a falling liquid film** *J. Fluid Mech.* (2014), vol. 757, pp. 854\_887. IF: 2.294

**ACL-2014-24** HORT C., PLATEL V., SOCHARD S., LUENGAS MUNOZ A.T., ONDARTS M., REGUER A., BARONA A., ELIAS A., **A hybrid biological process of indoor air treatment for toluene removal**, *Journal of the Air & Waste Management Association*, 64(12):1403–1409, 2014. IF: 1.171

**ACL-2014-25** WQ LIU, F FORMOSA, A BADEL, YP WU, A. AGBOSSOU, **Self-powered nonlinear harvesting circuit with a mechanical switch structure for a bistable generator with stoppers**, *Sensors and actuators a-physical*, Volume: 216 Pages: 106-115 sep (2014). IF: 1.943

**ACL-2014-26\*** C. RUYER-QUIL, N. KOFMAN, D. CHASSEUR, S. MERGUI **Dynamics of falling liquid films** *Eur. Phys. J. E* (2014) 37: 30, DOI 10.1140/epje/i2014-14030-5. IF: 2.183

## **ACTI : Communications avec actes dans un congrès international.**

**ACTI-2014-1** C. BELLEUDY, A. KAYELLO, M. WOLOSZYN, H. GE, P. FAZIO, M. CHHAY, D. QUENARD. **A heat-airflow model for simulating the effects of air leakage on the temperature field in porous insulation**, in: *10th Nordic Symposium on Building Physics*, 16-19/06/2014, Lund – Suède

**ACTI-2014-2** B. PELIZZARI, J. MONNET, B. LORET, D. MAHMUTOVIC, O. PLÉ, L. BOUTONNIER, J.-F. DAÏAN. **Physical effects of liquid-vapor water transition in unsaturated soils**, *6th International (UNSAT 2014) Sydney Australia 2-4 July 2014* (accepted).

**ACTI-2014-3** D. MAHMUTOVIC, J. MONNET, B. LORET, O. PLE, B. PELIZZARI, L. BOUTONNIER, B. LAI. **A model for weakly unsaturated soils taking into account the three phases (air, water and soil)**, *6th International (UNSAT 2014) Sydney Australia 2-4 July 2014* (accepted).

**ACTI-2014-4** F. HUAYLLA, N. LE PIERRÈS, B. STUTZ, E. N'TSOUKPOE **Performance analysis of multifunctional exchangers implemented in an interseasonal sorption heat storage system**, *International Sorption Heat Pump Conference*, March 31-April 3, (2014) pp10

**ACTI-2014-5** A. AGBOSSOU, E. FERRIER, L. MICHEL, **Modeling of fibrous-concrete wood panels reinforced by FRP bars**, *The 7th International Conference on FRP Composites in Civil Engineering International Institute for FRP in Construction, CICE2014*, Vancouver, Canada, 20-22 August 2014 (accepted).

**ACTI-2014-6** J. PASTOR, F. PASTOR, D. KONDO, **Mixed method of Limit Analysis and axisymmetric problems: validation and new results for porous Coulomb materials**, in «Direct methods and constitutive modeling for plastic design by analysis», *11th World Congress on Computational Mechanics (WCCM2014)*, July 20-25, Barcelona, Spain.

**ACTI-2014-7** J. BERGER, S. GUERNOUTI, M. WOLOSZYN, M. CHHAY. **Towards Efficient numerical modelling of hygrothermal transfers using Proper Generalised DEcomposition**, in: *10th Nordic Symposium on Building Physics*, 16-19/06/2014, Lund – Suède

**ACTI-2014-8** KEDOWIDE Y., PIOT A., WOLOSZYN M., LE PIERRES N., BEJAT T. **Experimental investigations of highly hygroscopic and vapour permeable walls exposed to real climate**. In *Proc of 10th Nordic Symposium on Building Physics, NSB 2014*, Lund, Swede, p. 191-198.

**ACTI-2014-9** LEROUX G., STEPHAN L., LE PIERRÈS N., WURTZ E., **Experimental and modeling studies on a porous material for a new cooling system based on evaporation**, *Eurosun2014*, Aix les Bains (France), 16-19 septembre 2014 (6 pages).

**ACTI-2014-10** TATSIDJODOUNG P., LE PIERRÈS N., LUO L., LAGRE D., HEINTZ J., **Water adsorption on zeolites for solar heat storage modelling and parametric analysis of the reactor**, *Eurosun2014*, Aix les Bains (France), 16-19 septembre 2014 (6 pages).

**ACTI-2014-11** A LAZRAK, G FRAISSE, A LECONTE, P PAPILLON, B SOUYRI. **Towards a Generic Methodology to Model Solar Thermal Systems using Neural Networks Through a Short Dynamic Test**, *EUROSUN*, 16-19/09/2014, Aix-Les-Bains – France

**ACTI-2014-12** A LAZRAK, A LECONTE, G FRAISSE, P PAPILLON, B SOUYRI. **A Solar Combisystem Input-Output Modelling: Exploration of Several Algorithms and Learning Procedures**, *COFMER'01*, 28-30/10/2014, Rabat – Maroc

**ACTI-2014-13** J.F. CAP, B. STUTZ, F. HUAYLLA, **Model of H<sub>2</sub>O/LiBr absorption machine using falling films**, *EuroSun conference*, Aix-les-Bains, 16 – 19 September (2014) pp 8

**ACTI-2014-14** K. ANOUKOU, F. PASTOR, D. KONDO, J. PASTOR. **Theoretical and numerical limit analysis of porous materials with Coulomb matrix**, *14th European Mechanics of Materials Conference - EMMC14*, août 2014, Gothenburg, Suède.