

Production scientifique 'Axe Ingénierie de l'Energie'

Articles à comité de lecture

**Période de référence : 2010-juin 2015**

**2015**

1. Andrić I., Jamali-Zghal N., Santarelli M., Lacarrière B., Le Corre O., 2015. Environmental performance assessment of retrofitting existing coal fired power plants to co-firing with biomass: carbon footprint and emergy approach. *Journal of Cleaner Production*, sous presse.
2. Bardy E., Hamdi M., Havet M., Rouaud O., 2015. Transient Exergetic Efficiency and Moisture Loss Analysis of Forced Convection Drying With and Without Electrohydrodynamic Enhancement. *Energy*, 89, 519-527.
3. Belkadi A., Tarlet D., Montillet A., Bellettre J., Massoli, P. 2015. Water-in-oil emulsification in a microfluidic impinging flow at a high capillary number. *International Journal of Multiphase Flow*, 72, 11–23.
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5. Da G., Géhin E., Ben-Othmane M., Havet M., Sollicc C., Motzkus C., 2015. An experimental approach to measure particle deposition in large circular ventilation ducts. *Environment Science and Pollution Research*. 22, (7), 4873-4880.
6. O. Debono, A. Villot, 2015. Nitrogen products and reaction pathway of nitrogen compounds during the pyrolysis of various organic wastes”, *Journal of Analytical and Applied Pyrolysis*, 114, 222-234
7. El Mecherfi K., Rouaud O., Curet S., Negaoui H., Chobert J. M., Kheroua O., Saidi D., Haertlé T., 2015. Peptic hydrolysis of bovine beta-lactoglobulin under microwave treatment reduces its allergenicity in an ex vivo murine allergy model. *International Journal of Food Science and Technology*, 50, (2), 356–364.
8. Giraud F., Rulliere R., Toublanc C., Clausse M., Bonjour J., 2015, Experimental evidence of a new regime for boiling of water at subatmospheric pressure, *Experimental Thermal and Fluid Science*, 60, 45-53
9. Hedayati A., Le Corre O., Lacarrière B., Llorca J. 2015. Exergetic study of catalytic steam reforming of bio-ethanol over Pd–Rh/CeO<sub>2</sub> with hydrogen purification in a membrane reactor. *International Journal of Hydrogen Energy*, sous presse.
10. Pacheco L., Della-Valle D., Le Corre O., Habchi C., Lemenand T., Peerhossaini H., 2015. Modeling Open-Flow Steam Reforming of Methanol over Cu/ZnO/Al<sub>2</sub>O<sub>3</sub> Catalyst in an Axisymmetric Reactor. *Journal of Applied Fluid Mechanics*. 8(1), 33-42.
11. Piton M., Huchet F., Le Corre O., Le Guen L., Cazacliu B. 2015. A coupled thermal-granular model in flights rotary kiln: Industrial validation and process design. *Applied Thermal Engineering*, 75, 1011-1021

12. Taghian Dinani S., Havet M., 2015. The Influence of Voltage and Air Flow Velocity of Combined Convective - Electrohydrodynamic Drying System on the Kinetics and Energy Consumption of Mushroom Slices. *Journal of Cleaner Production*, 95, 203-211
13. Taghian Dinani S., Hamdami N., Shahedi M., Havet M. 2014. Quality Assessment of Mushroom Slices Dried by Hot Air Combined with an Electrohydrodynamic (EHD) Drying System. *Food and Bioproducts Processing*, 94, 572-580.
14. Taghian Dinani S., Havet M., Hamdami N., Shahedi M., Queveau D. 2015. Influence of the Electrohydrodynamic Process on the Properties of Dried Button Mushroom Slices: A Differential Scanning Calorimetry (DSC) Study. *Food and Bioproducts Processing*, 95, 83-95.

## 2014

1. Awad S., Loubar K., Tazerout M., 2014. Experimental investigation on the combustion, performance and pollutant emissions of biodiesel from animal fat residues on a direct injection diesel engine. *Energy*, Vol. 69, pp. 826-836.
2. Awad S., Tazerout M., 2014. Biodiesel Production Unit from Lab Scale to Industrial Pilot Plant: Material and Energy Balance. *Materials science and engineering*. 492, 380 -385.
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5. Chaunier L., Chiron H., Della Valle G., Rouaud O., Rzigue A., Shehzad A. 2014 Assessment of French bread texture by a multi-indentation test. *Journal of Food Engineering*, 122, 92-98.
6. Curet S., Rouaud O., Boillereaux L. 2014. Estimation of Dielectric Properties of Food Materials During Microwave Tempering and Heating. *Food and bioprocess technology*, 7(2), 371-384.
7. Daboussy M., Titica M., Boillereaux L. 2014 Parameter identification and state estimation of a microalgae dynamical model in sulphur deprived conditions global sensitivity analysis, optimization criterion, extended Kalman filter. *Canadian Journal of Chemical Engineering*. 92(8), 1378-1395.
8. Gheith R., Aloui F., Ben Nasrallah S., 2014. Study of temperature distribution in a Stirling engine regenerator. *Energy Conversion and management*, 88, 962-972.
9. Hamdi M., Havet M., Rouaud O., Tarlet D. 2014. Comparison of different tracers for PIV measurements in EHD airflow. *Experiments in Fluids*, 55(4), 1-12
10. Hamoud-Agha M.M., Curet S., Simonin H., Boillereaux L., 2014, Holding time effect on microwave inactivation of Escherichia coli K12: Experimental and numerical investigations, *Journal of Food Engineering*, 143, 102-113.
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13. Kinata E., Loubar K., Belloncle C., Tazerout M., 2014. Catalytic hydroliquefaction of charcoal CCB (copper, chromium and boron)-treated wood for bio-oil production: influence of CCB salts, residence time and catalysts. *Journal of Applied Energy*, 115, 57-64.

14. Lounici M. S., Boussadi A., Loubar K., Tazerout M. 2014. Experimental investigation on NG dual fuel engine improvement by hydrogen enrichment. *International Journal of Hydrogen Energy*, sous presse.
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16. Paudel S., Elmtiri M., Kling W.L., Le Corre O., Lacarrière B., 2014. Pseudo dynamic transitional modeling of building heating energy demand using artificial neural network. *Energy and Buildings*, 70, 81-93
17. Subodh P., Elmtiri M., Kling W.L., Le Corre O., Lacarrière B., 2014. Pseudo dynamic transitional modeling of building heating energy demand using artificial neural network. *Energy and Buildings*, 70, 81-93.
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19. Taghian Dinani S., Hamdami N., Shahedi M., Havet M., 2014. Mathematical modeling of hot air/electrohydrodynamic (EHD) drying kinetics of mushroom slices. *Energy Conversion and management*, 86, 70-80.
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## 2013

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3. Awad S., Paraschiv M., Varuvel E., Tazerout M., 2013. Optimization of biodiesel production from animal fat residue in wastewater using response surface methodology. *Bioresource technology*. 129, 315–320.
4. Awad S., Varuvel E., Loubar K., Tazerout M., 2013. Single zone combustion modeling of biodiesel from wastes in diesel engine. *Fuel*, 106, 558–568.
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13. Ifrim G.A., Titica M., Barbu L., Boillereaux L., Cogne G., Caraman S., Legrand J., 2013. Multivariable feedback linearizing control of Chlamydomonas reinhardtii photoautotrophic growth process in a torus photobioreactor. *Chemical Engineering Journal*, 218, 191-203
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15. Kinata E., Loubar K., Paraschiv M., Bouslamti A., Belloncle C., Tazerout M., 2013. Slow pyrolysis of CCB-treated wood for energy recovery: influence of chromium, copper and boron on pyrolysis process and optimization. *Journal of Analytical and Applied Pyrolysis*, 104, 210-217.
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