



# 2013

**[ACL-13-01]** ALEXANDROVA S., 2013, "Film drainage and coalescence of drops in the presence of surfactant". *Journal of Chemical Technology and Metallurgy*, acceptée. (PE)

**[ACL-13-02]** ALEXANDROVA S., KARSHEVA M., SABONI A., GOURDON C., 2013, "Heat transfer from a moving fluid sphere with internal heat generation". *Thermal Science Journal*, in press, doi: 10.2298/TSCI 120811054A. (PE)

**[ACL-13-03]** BENZAOUI A.\*, VAXELAIRE J., MARIAS F., GELIX F., PILLET S., CRETENOT D., 2013, "Emission of nitrogen compounds by incineration of a wastewater sludge particle under fluidized bed conditions: a numerical approach". *Waste and Biomass Valorization* 4(2), 181-195. (PE)

**[ACL-13-04]** CALVET N., PY X., OLIVES R., BEDECARRATS J.P., DUMAS J.P., JAY F., 2013, "Enhanced performances of macro-encapsulated phase change materials by intensification of the internal effective thermal conductivity". *Energy* 55, 956-964. (EN)

**[ACL-13-05]** CASÁS L. M., POZO M., GÓMEZ C. P., POZO E., BESSIÈRES L. D., PLANTIER F., LEGIDO, J. L., 2013, "Thermal behavior of mixtures of bentonitic clay and saline solutions". *Appl. Clay Sci.*, 72, 18-25. (PE)

**[ACL-13-06]** CHAMPIER D., FAVAREL C.\*, BEDECARRATS J.P., KOUSSKOU T., ROZIS J.F., 2013, "Prototype of a combined heater thermoelectric power generator for remote applications". *Journal of Electronic Materials*, Volume 42, Issue 7, 1888-1899. (EN)

**[ACL-13-07]** DARDOUR H.\*, CÉZAC P., RENEAUME J.M., BOUROUIS M., BELLAGI A., 2013, "Numerical Investigation of an Absorption-Diffusion Cooling Machine Using C3H8/C9H20 as Binary Working Fluid". *Oil & Gas Science and Technology*, vol. 68, 2, 249-254. (EN)

**[ACL-13-08]** DUMAS J.P., GIBOUT S., CEZAC P., FRANQUET E., HAILLOT D., 2013, "Model for the DSC thermograms of the melting of ideal binary solutions". *Thermochimica Acta* 571, pp 64-76. (EN)

**[ACL-13-09]** DUMAS J.P., GIBOUT S., ZALEWSKI L., JOHANNES K., FRANQUET E., LASSUE S., BEDECARRATS J.P., TITTELEIN P., KUZNIK F., 2013, "Correct interpretation of calorimetry experiments to ensure the appropriate use of phase change materials". *International Journal of Thermal Science*, in Press. (EN)

**[ACL-13-10]** FRANQUET E., PERRIER V., 2013, "Runge-Kutta discontinuous Galerkin method for reactive multiphase flows". *Computers & Fluids*, 83, 157-163. (EN)

**[ACL-13-11]** FULA A.\*, STOUFFS P., SIERRA F., 2013, "In-Cylinder Heat Transfer in an Ericsson Engine Prototype". *Renewable Energy and Power Quality Journal*, N° 11, paper 594. (EN)

**[ACL-13-12]** GAYOL A., CASÁS L. M., ANDREATTA A. E., MARTINI R. E., LEGIDO J. L., 2013, "Surface tension of dialkyl carbonates + (alkanes or 1,4-dimethylbenzene) and 1,4-dimethylbenzene + alkanes binary mixtures at T = 308.15 K". *J. Chem. Eng. Data*, 58(3), 758-763. (PE)

**[ACL-13-13]** GAYOL A., CASÁS L. M., MARTINI R. E., ANDREATTA A. E., LEGIDO J. L., 2013, "Volumetric properties of (dialkyl carbonate + n-alkane) mixtures at high pressures: Experimental measurement and nitta-chao model prediction". *J. Chem. Thermodyn.*, 58, 245-253. (PE)

**[ACL-13-14]** GIBOUT S., FRANQUET E., MARÉCHAL W.\*, DUMAS J.P., 2013, "On the use of a reduced model for the simulation of melting of solution in DSC experiments". *Thermochimica Acta* 566, 118-123. (EN)

**[ACL-13-15]** GUELLA S., ALEXANDROVA S., SABONI A., 2013, "Transport de particules fluides en évaporation dans un local ventilé", *Revue de Génie Industriel*, acceptée. (PE)

**[ACL-13-16]** HAILLOT D., FRANQUET E., GIBOUT S., BEDECARRATS J.P., 2013, "Optimization of solar DHW system including PCM media". *Applied Energy* 109, 470-475. (EN)

**[ACL-13-17]** HORT C., GRACY S.\*, PLATEL V., MOYNAULT L., 2013, "A comparative study of two composts as filter media for the removal of gaseous reduced sulfur compounds (RSCs) by biofiltration: Application at industrial scale". *Waste Management*, 33 (1), 18-25. (PE)



**[ACL-13-18]** KARSHEVA M., KIROVA E.\*, ALEXANDROVA S., 2013, "Natural antioxidants from citrus mandarin peels. Extraction of polyphenols;effect of operational conditions on total poliphenol contents and antioxidant activity". Journal of Chemical Technology and Metallurgy, 48, 35-41. (PE)

**[ACL-13-19]** KARSHEVA M., KIROVA E.\*, ALEXANDROVA S., GEORGIEVA S., 2013, "Comparison of citrus peels as source of valuable components: polyphenols and antioxidants". Journal of Chemical Technology and Metallurgy, 48 (5), 475-478. (PE)

**[ACL-13-20]** LAURENT S., COUTURE F., GIRARD C.\*, 2013, "Thermodynamical and Chemical Behavior of a Solid Hydrate during Drying". Drying Technology, vol. 31, 1029-1048. (PE)

**[ACL-13-21]** LONTSI F.\*, HAMANDJODA O, FOZAO K., STOUFFS P., NGANHOU J., 2013, "Dynamic simulation of a small modified Joule cycle reciprocating Ericsson engine for microcogeneration systems", Energy, <http://dx.doi.org/10.1016/j.energy.2013.10.061>. (EN)

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**[ACL-13-23]** MUSBAH I., CICERON D., SABONI A., ALEXANDROVA S., 2013, "Retention of pesticides and metabolites by nanofiltration by effects of size and dipole moment", Desalination, 313, 51–56. (PE)

**[ACL-13-24]** RAMOS MANUEL A., GARCÍA-HERRERO PABLO, GÓMEZ JORGE M., RENEAUME J. M., 2013, "Optimal Control of the Extractive Distillation for the Production of Fuel Grade Ethanol". Industrial & Engineering Chemistry Research, Vol. 52, No 25, 8471-8487. (EN)

**[ACL-13-25]** RAMOS MANUEL A., GÓMEZ JORGE M., RENEAUME J. M., 2013, "Simultaneous Optimal Design and Control of an Extractive Distillation System for the Production of Fuel Grade Ethanol using MPCC". A paraitre Industrial & Engineering Chemistry Research; (EN)

**[ACL-13-26]** VAXELAIRE J., OLIVIER J., 2013, "Compression dewatering of particulate suspensions and sludge. Effect of shear". Drying Technology, sous presse. (PE)

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