

Publications in peer reviewed International Journals 1993-2009

➤ 2009

- 1) J. Ramaroson, J.L. Dirion, A. Nzihou, G. Depelseinaire. Characterization and kinetics of surface area reduction during the calcination of dredged sediments. *Powder Technol.*, 190(1-2), 59-64, 2009
- 2) C. Verwilghen, M. Chkir, S. Rio, A. Nzihou, P. Sharrock, G. Depelseinaire. Convenient conversion of calcium carbonate to hydroxyapatite at ambient temperature. *Mat. Sci. Eng. C*, 29(3), 771-773, 2009
- 3) P. Sharrock, M. Fiallo, A. Nzihou, M. Chkir. Hazardous animal waste carcasses transformation into slow release fertilizers. *J. Hazard. Mat.*, 167(1-3), 119-123, 2009
- 4) G. Lyberatos, A. Nzihou. Biological and pretreatment processes for the valorization of waste and biomass into energy/fuel and useful materials. *Biores. Technol.*, 100(15), pp. 3689, 2009
- 5) Y. Yang, L. HU, A.Nzihou, N. Yacoubi. Laboratory tests on valorization technique of dredged sediment. *Rock and Soil Mechanics*, 30(5), 1323-1327, 2009
- 6) G. Lyberatos, A. Nzihou. Treatment and valorisation of waste and wastewater for the production of energy/fuel and useful materials. *Global Nest Journal*, 11 (2), Special issue, 2009

➤ 2008

- 1) M. Kemiha, A. Nzihou, D. Mateos. Agglomeration of metals during pyrolysis of chromated copper arsenate (CCA) treated wood waste. *High Temper. Mat. Proc.*, 27(5), 361-368, 2008
- 2) J. Ramaroson, J.L. Dirion, A. Nzihou, et al. Calcination of Dredged Sediments: Investigation of the Behavior of Heavy Metals and the Organic Compounds. *High Temp. Mater. And Proc.*, 27 (5), 327-336, 2008
- 3) A. Nzihou, G. Lyberatos, M. Baron. Thermal processes for the valorisation of waste and biomass into energy/fuel and useful materials. *High Temp. Mater. And Proc.*, 27 (5), 291-292, 2008

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- 2) S. Baillez, A. Nzihou, D. Bernache-Assolant, E. Champion, P. Sharrock. Removal of aqueous lead ions by hydroxyapatites: Equilibria and kinetic processes. *J. Hazard. Mat.*, 139(3), 443-446, 2007
- 3) S. Rio, C. Verwilghen, J. Ramaroson, A. Nzihou, P. Sharrock. Heavy metal vaporization and abatement during thermal treatment of modified wastes. *J. Hazard. Mat.*, 148, 521-528, 2007
- 4) M. Kacem, S. Salvador, A. Nzihou, G. Flamant. Particle in box: A cell for in-situ measurements of porosity and effective diffusion coefficient during thermo physical transformations. *Ind. Eng. Chem. Res.*, 46, 6558-6565, 2007
- 5) J.M. Commandré, S. Salvador, A. Nzihou. Reactivity of laboratory and industrial limes. *Chem. Eng. Res. Design*, 85(A4), 473-480, 2007
- 6) A. Nzihou. WasteEng 2005 Conference 1st Intern. Conf. on Engineering for Waste Treatment. Beneficial Use of Waste and by-Products. *Journal of Hazardous Materials*, 139 (3), Special Issue, 407-408, 2007
- 7) J. Batton, J. Kadaksham, A. Nzihou, P. Singh, N. Aubry. Trapping Heavy metals by using calcium hydroxyapatite and dielectrophoresis. *J. Hazard. Mat.*, A139, 461-466, 2007

➤ 2006

- 1) D. Lecomte, A. Nzihou. Preface to the special issue of process safety and environmental protection on the 1st International conference on engineering for waste treatment: beneficial use of waste and by-products. *Proc. Safety Environ. Protec.*, 84(B4), 235-236, 2006
- 2) J. Kano, Q. Zhang, F. Saito, M. Baron, A. Nzihou. Synthesis of hydroxyapatite with the mechanochemical treatment products of PVC and CaO. *Proc. Safety Environ. Protec.*, 84(B4), 309-312, 2006
- 3) B. Bournonville, A. Nzihou, P. Sharrock, G. Depelseinaire. Stabilization of minerals by reaction with phosphoric acid: evolution of model compounds. *Proc. Safety Environ. Protec.*, 84(B2), 117-124, 2006

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- 1) A. Nzihou, B. Adhikari, R. Pfeffer. Effect of metal chlorides on the sintering and densification of hydroxyapatite adsorbent. *Ind. Eng. Chem. Res.*, 44(6), 1787-1794, 2005

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- 2) S. Bailliez, A. Nzihou, E. Beche, G. Flamant. Removal of lead (Pb) by hydroxyapatite sorbent. *Proc. Safety Environ. Protec.*, 82(B2), 175-180, 2004
- 3) S. Bailliez, A. Nzihou. The kinetics of surface area reduction during isothermal sintering of hydroxyapatite adsorbent. *Chem. Eng. J.*, 98 (1-2), 141-152, 2004
- 4) A. Nzihou, B. Bournonville, P. Marchal, L. Choplin, L. Rheology and heat transfer during mineral residue phosphatation in a rheo-reactor. *Chem. Eng. Res. Design*, 82(A5), 637-641, 2004
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- 1) A. Nzihou P. Sharrock. Calcium phosphate stabilization of fly ash with chloride extraction. *Waste Management*, 22(2), 235-239, 2002
- 2) A. Nzihou, S. Bailliez. Mechanisms of sintering of macroporous hydroxyapatite adsorbents. *High Temper. Mat. Proc.*, 21(5), 281-295, 2002
- 3) B. Bournonville, A. Nzihou. Rheology of non-Newtonian suspensions of fly ash: effect of concentration, yield stress and hydrodynamic interactions. *Powder Technol.*, 128(2-3), 148-158, 2002

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- 1) S. Iretskaya, A. Nzihou, C. Zahraoui, et al. Metal leaching from MSW fly ash before and after chemical and thermal treatment. *Environmental Progress*, 1 (2), 144-148, 1999
- 2) A. Nzihou, P. Sharrock, A. Ricard. Reaction kinetics and heat transfer studies in thermoset resins. *Chemical Engineering Journal*, 72 (1), 53-61, 1999

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A. Nzihou, L. Attias, P. Sharrock, et al. A rheological, thermal and mechanical study of bone cement - from a suspension to a solid biomaterial. *Powder Technology*, 99 (1), 60-69, 1998

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