

## Publications in peer reviewed International Journals 2010-2019

### > [2019](#)

- 1) K. Zeng, R. Li, D. Pham Minh, E. Weiss-Hortala, A. Nzihou, X. He, G. Flamant. Solar pyrolysis of heavy metal contaminated biomass for gas fuel production. *Energy*, 187, 116016, 2019
- 2) L.M. Romero Millan, F.E. Vargas, A. Nzihou. Catalytic Effect of Inorganic Elements on Steam Gasification Biochar Properties from Agrowastes. *Energy & Fuels*. 33, 9, 8666-8675, 2019
- 3) S. Jain, D. Newman, A. Nzihou, H. Dekker, P. Le Feuvre, H. Richter, F. Gobe, C. Morton, R. Thompson. Global Potential of Biogas Report. *World Biogas Association*. June 2019
- 4) M. Ducouso, E. Weiss-Hortala, N. Lyczko, A. Nzihou, M. Castaldi, Marco. 110th Anniversary: Syngas production enhancement using calcium and potassium impregnated chars. *Industrial & Engineering Chemistry Research*, 58 (33), 15134-15141, 2019
- 5) E. Ampaw, T. A. Owosenia, F. Dub, N. Pinilla, J. Obayemi, J. Hu, P-M. Nigay, A. Nzihou, V. Uzonwanne, Z. Kana, M. Dewoolkar, T. Tan, W. Soboyejo. Compressive Deformation and Failure of Trabecular Structures in A Turtle Shell. *Acta Biomaterialia*. 97, 535-543, 2019
- 6) Y. Xie, K. Zeng, G. Flamant, H. Yang, N. Liu, X. He, X. Yang, A. Nzihou, H. Chen. Solar pyrolysis of cotton stalk in molten salt for bio-fuel production. *Energy*, 179, 1124-1132, 2019
- 7) M. Hasan, D.A. Gopakumar, V. Arumughan, Y.B. Pottathara, S. K.S, D. Pasquini, M. Bračić, B. Seantier, A. Nzihou, S. Thomas, S. Rizal, H.P.S. Abdul Khalil. Robust Superhydrophobic Cellulose Nanofiber Aerogel for multifunctional Environmental Applications. *Polymers*, 11(3), 495, 2019.
- 8) C. Block, A. Ephraim, E. Weiss Hortala, D. Pham Minh, A. Nzihou, C. Vandecasteele, Co-pyrogasification of Plastics and Biomass, a Review. *Waste and Biomass Valorization*, 10, 483-509, 2019
- 9) M. Hervy, E. Weiss-Hortala, D. Pham Minh, H. Dib, A. Villot, C. Gerente, S. Berhanu, A. Chesnaud, A. Thorel, L. Le Coq, A. Nzihou. Reactivity and deactivation mechanisms of pyrolysis chars from bio-waste during catalytic cracking of tar. *Applied Energy*, 237, 487-499, 2019
- 10) A. Nzihou, B. Stanmore, N. Lyczko, D. Pham Minh. The Catalytic Effect of Inherent and Adsorbed Metals on the Fast/Flash Pyrolysis of Biomass: A Review. *Energy*, 170, 326-337, 2019
- 11) L. M. Romero Millan, F. E. Sierra Vargas, A. Nzihou. Steam gasification behavior of tropical agrowastes: a new modeling approach based on the inorganic composition. *Fuel*, 239, 45-53, 2019
- 12) M. Dia, R. Zentar, N. Abriak, A. Nzihou, G. Depelsenaire, A. Germeau. Effect of phosphatation and calcination on the environmental behaviour of sediments. *International Journal of Sediment Research*, 34 (5), 486-495, 2019
- 13) B. Ren, Y. Zhao, N. Lyczko, A. Nzihou. Current Status and Outlook of Odor Removal Technologies in Wastewater Treatment Plant. Review. *Waste and Biomass Valorization*. 10 (6), 1443-1458, 2019
- 14) M. Galera Martínez, D. Pham Minh, A. Nzihou, P. Sharrock. Valorization of calcium carbonate-based solid wastes for the treatment of hydrogen sulfide in a semi-continuous reactor. *Chemical Engineering Journal*, 360, 1167-1176, 2019
- 15) N. Lopez Ferber, Q. Falcoz, D. Pham Minh, J.F. Hoffmann, A. Meffre, A. Nzihou, V. Goetza. Flexibility and robustness of a high-temperature air/ceramic thermozone heat storage pilot. *Journal of Energy Storage*, 21, 393-404, 2019
- 16) A. Ephraim, L. Dan Ngo, D. Pham Minh, D. Lebonnois, C. Peregrina, P. Sharrock, A. Nzihou. Valorization of Waste-Derived Inorganic Sorbents for the Removal of HCl in Syngas. *Waste and Biomass Valorization*, 10 (11), 3435-3446, 2019

### > [2018](#)

- 1) O. Wesley Awe, J. Lu, S. Wu, Yaqian Zhao, A. Nzihou, N. Lyczko, D. Pham Minh. Effect of Oil Content on Biogas Production, Process Performance and Stability of Food Waste Anaerobic Digestion. *Waste and Biomass Valorization*, 9, 2295-2306, 2018
- 2) P.M. Nigay, J.D. Obayemi, C.E. White, A. Nzihou, W.O. Soboyejo, Removal Mechanisms of Contaminants in Ceramic Water Filters. *Journal of Environmental Engineering*, 144(12), 2018.
- 3) R. Munirathinam, D. Pham Minh, A. Nzihou. Effect of the Support and Its Surface Modifications in Cobalt-Based Fischer-Tropsch Synthesis. *Ind. Eng. Chem. Res.*, 57 (48), 16137-16161, 2018

- 4) J. Dong, Y. Tang, A. Nzihou, Y. Chi, E. Weiss-Hortala, M. Ni, Z. Zhou. Comparison of Waste-to-Energy technologies of gasification and incineration using life cycle assessment: case studies in Finland, France and China. *Accepted in Journal of Cleaner Production*, 203, 287-300, 2018.
- 5) M. Hervy, A. Villot, C. Gerente, D. Pham Minh, L. Le Coq, E. Weiss-Hortala, A. Nzihou. Catalytic cracking of ethylbenzene as tar surrogate using pyrolysis chars from wastes. *Accepted in Biomass and Bioenergy*, 117, 86-95, 2018.
- 6) A. Ephraïm, D. Pham Minh, D. Lebonnois, C. Peregrina, P. Sharrock, A. Nzihou. Co-pyrolysis of wood and plastics: Influence of plastic type and content on product yield, gas composition and quality. *Fuel*, 231, 110-117, 2018
- 7) B. Rego de Vasconcelos, D. Pham Minh, N. Lyczko, T. S. Phan, P. Sharrock, A. Nzihou. Upgrading greenhouse gases (methane and carbon dioxide) into syngas using nickel-based catalysts. *Fuel*, 226, 195-203, 2018
- 8) T. S. Phan, D. Pham Minh, D. Grouset, A. Nzihou. Thermodynamic Equilibrium Study of Methane Reforming with Carbon Dioxide, Water and Oxygen. *Journal of Clean Energy Technologies*, 6 (4), 309-313, 2018
- 9) E. Daouk, R. Sani, D. Pham minh, A. Nzihou. Thermo-conversion of solid recovered fuels under inert and oxidative atmospheres: gas composition and chlorine distribution. *Fuel*, 225, 54-64, 2018
- 10) S. Berhanu, M. Hervy, E. Weiss-Hortala, H. Proudhon, M-H. Berger, A. Chesnaud, M. Faessel, A. King, D. Pham Minh, A. Villot, C. Gérente, A. Thorel, L. Le Coq, A. Nzihou. Advanced characterization unravels the structure and reactivity of wood-based chars. *Journal of Analytical and Applied Pyrolysis*, 130, 79-89, 2018.
- 11) J. Dong, Y. Tang, A. Nzihou, Y. Chi, E. Weiss-Hortala, M. Ni. Life cycle assessment of pyrolysis, gasification and incineration waste-to-energy technologies: theoretical analysis and case study of commercial plants, *Science of the Total Environment*, 626, 744-753, 2018.
- 12) T. Son Phan, A. R. Sane, B. Rêgo de Vasconcelos, D. Pham Minh, P. Sharrock, D. Grouset, A. Nzihou. Hydroxyapatite supported bimetallic cobalt and nickel catalysts for syngas production from dry reforming of methane. *Applied Catalysis B: Environmental*, 224, 310-321, 2018.
- 13) M. Hervy, D. Pham Minh, C. Gerente, E. Weiss, A. Nzihou, A. Villot, L. Le Coq. H<sub>2</sub>S removal from syngas using wastes pyrolysis chars. *Chemical Engineering Journal*, 334, 2179-2189, 2018
- 14) M. Said, L. Cassayre, J.L. Dirion, A. Nzihou, X. Joulia. Influence of nickel on biomass pyro-gasification: coupled thermodynamic and experimental investigations. *I&EC Research*, 57 (20), 9788-9797, 2018.
- 15) P.M. Nigay, A. Nzihou, T. Cutard. The impact of the particle size distribution of organic additives on the microstructure of a clay ceramic and its thermal and mechanical properties. *Journal of Materials in Civil Engineering*, 30 (4), 2018.
- 16) B. Rego de Vasconcelos, D. Pham minh, A. Nzihou, P. Sharrock. Regeneration study of Ni/hydroxyapatite spent catalyst from dry reforming. *Catalysis*, 310, 107-115, 2018.
- 17) O. W. Awe, L.S. Wu, Y. Zhao, A. Nzihou, N. Lyczko, D. Pham Minh. Effect of Oil Content on Biogas Production, Process Performance and Stability of Food Waste Anaerobic Digestion, *Waste and Biomass Valorization*, 9 (12), 2295-2306, 2018.

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- 1) M. Castaldi, J. van Deventer, J. M. Lavoie, J. Legrand, A. Nzihou, Y. Pontikes, X. Py, C. Vandecasteele, P. T. Vasudevan, W. Verstraete. Progress and Prospects in the Field of Biomass and Waste to Energy and Added-Value Materials. *Waste and Biomass Valorization*, 8 (6), 1875–1884, 2017
- 2) N. Lyczko, H. Sebei, A. Nzihou, P. Sharrock. Treatment of municipal wastewater with calcium phosphate: a new physicochemical purification step. *Environmental Engineering and Management Journal*, Vol.16 (11), 2573-2580, 2017.
- 3) J. Dong, NZIHOU A., Y. Chi, E. Weiss-Hortala, M. Ni, N. Lyczko, Y. Tang, M. Ducouso, Hydrogen-rich gas production from steam catalytic gasification of bio-char. *Waste and Biomass Valorization*, 8 (8), 1875–1884, 2017
- 4) M. Said, L.Cassayre, J.-L. Dirion, X. Joulia, A. Nzihou; Effect of Nickel Impregnation on Wood Gasification Mechanism. *Waste and Biomass Valorization*, 8 (8), 2843-2852, 2017
- 5) P.M. Nigay, R. Sani, T. Cutard, A. Nzihou. Modeling of the thermal and mechanical properties of clay ceramics incorporating organic additives. *Materials Science & Engineering A*, 708, 375-382, 2017.

- 6) D. Pham Minh, A. R. Sane, S. Nawal, P. Sharrock, A. Nzihou, Alkali polyphosphate as new potential materials for thermal energy storage. *Solar Energy*, 157, 277-283, 2017
- 7) P.M. Nigay, A. Nzihou, C.E. White, W.O. Soboyejo. Structure and Properties of Clay Ceramics for Thermal Energy Storage. *Journal of the American Ceramic Society*, 100 (10), 4748-4759, 2017
- 8) O.W. Awe, D. Pham Minh, N. Lyczko, A. Nzihou, Y. Zhao. Laboratory-scale investigation of the removal of hydrogen sulfide from biogas and air using industrial waste-based sorbents. *Journal of Environmental Chemical Engineering*, 5 (2), 1809-1820, 2017
- 9) R. Sani, A. Nzihou. Production of clay ceramics using agricultural wastes: study of properties, energy savings and environmental indicators. *Applied Clay Science* 146, 106-114, 2017
- 10) L.M. Romero Millan, A. Nzihou, F.E. Sierra Vargas. Kinetic analysis of tropical lignocellulosic agrowastes pyrolysis. *BioEnergy Research* 10, 832-845, 2017
- 11) B. Stanmore, A. NZIHOU. Can biomass be satisfactorily gasified under pressure using an aqueous slurry feed: Examination by simulation. *Biomass and Bioenergy*, 97, 108-115, 2017
- 12) O. W. Awe, Y. Zhao, A. Nzihou, D. Pham Minh, N. Lyczko. A Review of Biogas Utilisation, Purification and Upgrading Technologies. *Waste and Biomass Valorization*, 8 (2), 267-283, 2017
- 13) H. Sebei, D. Pham Minh, N. Lyczko, P. Sharrock, A. Nzihou. Hydroxyapatite-based sorbents: Elaboration, characterization and application for the removal of catechol from the aqueous phase, *Environmental Technology*, 38 (20), 2611-2620, 2017
- 14) P.M. Nigay, T. Cutard, A. Nzihou. The impact of heat treatment on the microstructure of a clay ceramic and its thermal and mechanical properties. *Ceramics International*, 43, 1747-1754, 2017
- 15) M. Hervy, S. Berhanu, E. Weiss-Hortala, A. Chesnaud, C. Gérente, A. Villot, D. Pham Minh, A. Thorel, L. Le Coq, A. Nzihou. Multi-scale characterisation of chars mineral species for tar cracking, *Fuel*, 189, 88-97, 2017
- 16) K. Zeng, D. Gauthier, D. Pham Minh, E. Weiss-Hortala, A. Nzihou, G. Flamant. Characterization of solar fuels obtained from beech wood solar pyrolysis, *Fuel*, 188, 285-293, 2017

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- 1) L.V. Koraha, P.M. Nigay, T. Cutard, A. Nzihou S. Thomas. The impact of the particle shape of organic additives on the anisotropy of a clay ceramic and its thermal and mechanical properties. *Construction and Building Materials*, 125, 654-660, 2016
- 2) B. Rego de Vasconcelos, L. Zhao, P. Sharrock, A. Nzihou., D. Pham Minh. Catalytic transformation of carbon dioxide and methane into syngas over ruthenium and platinum supported hydroxyapatites. *Applied Surface Science*, 390, 141-156, 2016
- 3) J. Dong, Y. Chi, Y. Tang, M. Ni, A. Nzihou, E. Weiss-Hortala, Q. Huang. Effect of operating parameters and moisture content on municipal solid waste pyrolysis and gasification. *Energy Fuels*, 30 (5), 3994-4001, 2016
- 4) N. Macedo Portela da Silva, F. Espitalier, A. Nzihou. Precipitation Process of Calcium Phosphate from Calcium Carbonate Suspension. *KONA Powder and Particle Journal*, 33, 219-227, 2016
- 5) A. Ephraïm, V. Pozzobon, O. Louisnard, D. Pham Minh, A. Nzihou, P. Sharrock. Simulation of biomass char gasification in a downdraft reactor for syngas production. *AIChE Journal*, 62(4), 1079-109, 2016
- 6) S.Q. Chen, F. Wang, M. Milhe, P. Arlabosse, F.L. Liang, Y. Chi, A. Nzihou, J. Yan. Experimental and theoretical research on agitated contact drying of sewage sludge in a continuous paddle dryer. *Drying Technology*, 364 (16), 1979-1990, 2016

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- 1) M. Said, L. Cassayre, J-L. Dirion, A. Nzihou, X. Joulia. Behavior of heavy metals during gasification of phytoextraction plants: thermochemical modelling. *Computer Aided Chemical Engineering*, 37, 341-346, 2015
- 2) H. Sebei, D. Pham Minh; A. Nzihou, P. Sharrock. Sorption behavior of Zn(II) ions on synthetic apatitic calcium phosphates. *Applied Surface Science Part: B*, 357, 1958-1966, 2015
- 3) A. Nzihou, B. Stanmore. The formation of Aerosols during the co-combustion of coal and biomass, *Waste and Biomass Valorization*, 6 (6), 947-957, 2015
- 4) D. Pham Minh, A. Nzihou, P. Sharrock. Sodium dihydrogen phosphate starting from sodium chloride and orthophosphoric acid via cation resin exchange. *Phosphorus, Sulfur, and Silicon and the Related Elements*, 190 (11), 1743-1748, 2015

- 5) M. Ducouso, E. Weiss-Hortala, A. Nzihou, M. Castaldi. Reactivity enhancement of gasification biochars for catalytic applications. *Fuel*, 1,491-499, 2015
- 6) N. Klinghoffer, M. Castaldi, A. Nzihou. Influence of char composition and inorganics on catalytic activity of char from biomass gasification. *Fuel*, 157, 37-47, 2015
- 7) Y. Daniels, N. Lyczko, A. Nzihou, S. D. Alexandratos. Modification of hydroxyapatite with ion-selective complexants: 1-Hydroxyethane-1,1-diphosphonic acid. *Industrial & Engineering Chemistry Research*, 54(2), 585-596, 2015
- 8) B. De Vasconcelos, N. Dung Tran, D. Pham Minh, A. Nzihou, P. Sharrock. Synthesis of carbon nanotubes/hydroxyapatite composites using catalytic methane cracking. *Composite Interfaces*, 22 (7), 673-687, 2015
- 9) S. Stita, M. Galera Martinez, H. Pham Xuan, D. Pham Minh, A. Nzihou, P. Sharrock. Metal-doped apatitic calcium phosphates: preparation, characterization, and reactivity in the removal of hydrogen sulfide from gas phase. *Composite Interfaces*, 22 (6), 503-515, 2015
- 10) H. Pham Xuan, D. Pham Minh, M. Galera Martinez, A. Nzihou, P. Sharrock. Valorization of Calcium Carbonate-Based Solid Wastes for the Treatment of Hydrogen Sulfide from the Gas Phase. *Ind. Eng. Chem. Res.*, 54(18), 4915-4922, 2015
- 11) Z. Kuo, D. Pham Minh, D. Gauthier, E. Weiss-Hortala, A. Nzihou, G. Flamant. The effect of temperature and heating rate on char properties obtained from solar pyrolysis of beech wood. *Bioresource Technology*, 182, 114-119, 2015
- 12) J. Dong, Y. Chi, Y. Tang, A. Nzihou et al. Partitioning of Heavy Metals in Municipal Solid Waste Pyrolysis, Gasification, and Incineration. *Energy & Fuels*, 29 (11), 7516-7525, 2015
- 13) K. Nasri, H. El Feki, P. Sharrock, A. Nzihou et al. Spray-Dried Monocalcium Phosphate Monohydrate for Soluble Phosphate Fertilizer. *Industrial & Engineering Chemistry Research*, 54 (33), 8043-8047, 2015

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- 1) N. Lyczko, A. Nzihou, P. Sharrock. Calcium phosphate sorbent for environmental application. *Procedia Engineering*, 83, 423-431, 2014
- 2) M. Raii, D. Pham Minh, J. Francisco et al. Lead and cadmium removal from aqueous solution using an industrial gypsum by-product. *Procedia Engineering*, 83, 415-422, 2014
- 3) M. Kemiha, D. Pham Minh, N. Lyczko, A. Nzihou, P. Sharrock. Highly porous calcium hydroxyapatite-based composites for air pollution control. *Procedia Engineering*, 83, 394-402, 2014
- 4) D. Pham Minh, P. Sharrock, A. Nzihou. Carbonated hydroxyapatite starting from calcite and different orthophosphates under moderate hydrothermal conditions: synthesis and surface reactivity in simulated body fluid. *Materials Research Bulletin*, 60, 292-299, 2014
- 5) Maria, H.J., Lyczko, N., Nzihou, A., et al. Stress Relaxation Behavior of Organically Modified Montmorillonite Filled Natural Rubber/Nitrile Rubber Nanocomposites. *Applied Clay Sciences*, 87, 120-128, 2014
- 6) D. Pham Minh, S. Rio, P. Sharrock, H. Sebei, N. Lyczko, N. Dung Tran, M. Raii, M., A. Nzihou. Hydroxyapatite starting from calcium carbonate and orthophosphoric acid: synthesis, characterization and applications. *Journal of Materials Science*, 49, 4261-4269, 2014
- 7) H. El Feki, A. Chaabouni, C. Chtara, A. Nzihou. Study the nature and the effects of the impurities of phosphate rock in the plants of production of phosphoric acid. *Journal of advances in chemistry*, 7 (2), 1296-1299, 2014
- 8) D. Pham Minh, N. Dung Tran, A. Nzihou, P. Sharrock. Calcium phosphate based materials starting from calcium carbonate and orthophosphoric acid for the removal of lead(II) from an aqueous solution. *Chemical Engineering Journal*, 243, 280-288, 2014
- 9) K. Nasri, C. Chtara, C. Hassen, M. Fiallo, P. Sharrock, A. Nzihou and H. El Feki. Recrystallization of Industrial Triple Super Phosphate Powder. *Ind. Eng. Chem. Res.*, 53 (37), 14446-14450, 2014
- 10) D. Pham Minh, T. Ngoc Dung, A. Nzihou et al. Novel one-step synthesis and characterization of bone-like carbonated apatite from calcium carbonate, calcium hydroxide and orthophosphoric acid as economical starting materials. *Materials Research Bulletin*, 51, 236-243, 2014
- 11) W. Lemlikchi, P. Sharrock, M.O. Mecherri et al. Reaction of calcium phosphate with textile dyes for purification of wastewaters. *Desalination and Water Treatment*, 52(7-9), 1669-1673, , 2014
- 12) M. Dia, J. Ramarosan, A. Nzihou et al. Effect of chemical and thermal treatment on the geotechnical properties of dredged sediment. *Procedia Engineering*, 83, 159-169, 2014



- 13) W. Lemlikchi, P. Sharrock, M. Fiallo, M. et al. Hydroxyapatite and Alizarin sulfonate ARS modeling interactions for textile dyes removal from wastewaters. *Procedia Engineering*, **2014**, 83, 378-385.
- 14) N. Belaicha, W. Lemlikchi, M O. Mecherri et al. Composite material with calcium sulfate and calcium phosphate for heavy metals retention. *Procedia Engineering*, 83, 403-406, 2014

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- 2) D. Pham Minh, N. Dung Tran, A. Nzihou, P. Sharrock. Hydroxyapatite gel for the improved removal of Pb<sup>2+</sup> ions from aqueous solution. *Chemical Engineering Journal*, 232, 128-138, 2013
- 3) A. Nzihou, B. Stanmore, P. Sharrock. A review of catalysts for the gasification of biomass char, with some reference to coal. *Energy*, 58, 305-317, 2013
- 4) D. Pham Minh, D. Dung Tran, A. Nzihou, P. Sharrock. Carbonate-containing apatite (CAP) synthesis under moderate conditions starting from calcium carbonate and orthophosphoric acid. *Materials Science & Engineering C*, 33 (5), 2971-2980, 2013
- 5) H.J. Maria, N. Lyczko, A. Nzihou, M. Cherian, C.G. Soney, J. Kuruvilla, T. Sabu. Transport of organic solvents through natural rubber/nitrile rubber/organically modified montmorillonite nanocomposites. *Journal of Material Science*, 48 (15), 5373-5386. , 2013
- 6) A. Nzihou, B. Stanmore. The fate of heavy metals during combustion and gasification of contaminated biomass - A brief review. *Journal of Hazardous Materials*, 256, 56-66, 2013
- 7) D. Pham Minh, D. Dung Tran, A. Nzihou, P. Sharrock. One-Step Synthesis of Calcium Hydroxyapatite from Calcium Carbonate and Orthophosphoric Acid under Moderate Conditions. *Industrial & Engineering Chemistry Research*, 52 (4),1439-1447, 2013
- 8) D. Pham Minh, M. Galera Martínez, A. Nzihou, P. Sharrock. Thermal behavior of apatitic calcium phosphates synthesized from calcium carbonate and orthophosphoric acid or potassium dihydrogen orthophosphate. *Journal of Thermal Analysis and Calorimetry*, 112 (3),1145-1155, 2013

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- 2) A. Nzihou, N.J. Themelis, M. Kemiha, Y. Benhamou. Dioxin emissions from municipal solid waste incinerators (MSWIs) in France. *Waste Management*, 32 (12), 2273-2277, 2012
- 3) D. Pham Minh, H. Sebei, A. Nzihou, P. Sharrock. Apatitic calcium phosphates: lyczko, characterization and reactivity in the removal of lead(II) from aqueous solution. *Chem. Eng. J.*, 198/199, 180-190, 2012
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- 5) N. Klinghoffer, M. Castaldi, A. Nzihou. Catalyst properties and catalytic performance of char from biomass gasification. *Ind. Eng. Chem. Res.*, 51(40), 13113-13122, 2012
- 6) J. Ramarosan, M. Dia, J.L. Dirion, A. Nzihou, G. Depelsenaire. Thermal treatment of dredged sediment in a rotary kiln: Investigation of structural changes. *Ind. Eng. Chem. Res.*, 51(21), 7146-7152, 2012
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- 9) W. Lemlikchi, P. Sharrock, M.O. Mecherri, M. Fiallo, A. Nzihou. Treatment of textile waste waters by hydroxyapatite co-precipitation with adsorbent regeneration and reuse. *Waste Biomass Valorization.*, 3(1), 75-79, 2012
- 10) D. Pham Minh, J. Ramarosan, A. Nzihou, P. Sharrock, G. Depelsenaire. A new route for the synthesis of alkali polyphosphate from economical starting materials: preparation and characterization of sodium cyclotriphosphate. *Phosphorus, Sulfur, and Silicon and the Related Elements*, 187, 112-120, 2012

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- 13) N. Lyczko, A. Nzihou, P. Sharrock, A. Germeau, C. Toussaint. Characterization of  $\text{LiFePO}_4/\text{C}$  cathode for lithium ion batteries, *Ind. Eng. Chem. Res.*, 51(1), 292-300, 2012

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- 1) M. Gargouri, C. Chtara, P. Sharrock, A. Nzihou, H. El Feki. Synthesis and physicochemical characterization of pure diammonium phosphate from industrial fertilizer. *Ind. Eng. Chem. Res.*, 50(11), 6580-6584, 2011
- 2) C. Tribout, B. Husson, A. Nzihou. Use of treated dredged sediments as road base materials: environmental assessment. *Waste and Biomass Valorization*, 2(3), 337-346, 2011
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