

## Publications

### Journal articles

- R. De-Luca, M. Trabuio, M. Barolo, F. Bezzo (2018). Microalgae growth optimization in open ponds with uncertain weather data. *Comp. Chem. Eng.*, **117**, 410-419
- R. De-Luca, A. Bernardi, A. Meneghesso, T. Morosinotto, F. Bezzo (2018). Modelling the photosynthetic electron transport chain in *Nannochloropsis gaditana* via exploitation of absorbance data. *Algal Res.*, **33**, 430-439
- G. Bano, P. Facco, F. Bezzo, M. Barolo (2018). Probabilistic design space determination in pharmaceutical product development: a Bayesian/latent variable approach. *AIChE J.*, **64**, 2438-2449
- G. Bano, Z. Wang, P. Facco, F. Bezzo, M. Barolo, M. Ierapetritou (2018). A novel and systematic approach to identify the design space of pharmaceutical processes. *Comp. Chem. Eng.*, **115**, 309-322
- F. d'Amore, P. Mocellin, C. Vianello, G. Maschio, F. Bezzo (2018). Economic optimisation of European supply chains for CO<sub>2</sub> capture, transport and sequestration, including societal risk analysis and risk mitigation measures. *Applied Energy*, **223**, 401-415
- L. Ascenso, F. d'Amore, A. Carvalho, F. Bezzo (2018). Assessing multiple biomass-feedstock in the optimization of power and fuel supply chains for sustainable mobility. *Chem. Eng. Res. Des.*, **131**, 127-143
- C. Castaldello, F. Galvanin, A. Casonato, R. Padrini, M. Barolo, F. Bezzo (2018). A model-based protocol for the diagnosis of von Willebrand disease. *Can. J. Chem. Eng.*, **96**, 628-638
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- F. Dal-Pastro, P. Facco, E. Zamprogna, F. Bezzo, M. Barolo (2017). Model-based approach to the design and scale-up of wheat milling operations - Proof of concept. *Food Bioprod. Process.*, **106**, 127-136
- F. d'Amore, F. Bezzo (2017). Economic optimisation of European supply chains for CO<sub>2</sub> capture, transport and sequestration. *Int. J. Greenh. Gas Con.*, **65**, 99-116
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- F. d'Amore, F. Bezzo (2017). Managing technology performance risk in the strategic design of biomass-based supply chains for energy in the transport sector. *Energy*, **138**, 563-574
- M. Ferrari, V. Pengo, M. Barolo, F. Bezzo, R. Padrini (2017). Assessing the relative potency of (S)- and (R)-warfarin with a new PK-PD model, in relation to VKORC1 genotypes. *Eur. J. Clin. Pharmacol.*, **73**, 699-707
- R. De-Luca, F. Bezzo, Q. Béchet, O. Bernard (2017). Exploiting meteorological forecasts for the optimal operation of algal ponds. *J. Process Cont.*, **55**, 55-65

- G. Bano, P. Facco, N. Meneghetti, F. Bezzo, M. Barolo (2017). Uncertainty back-propagation in PLS model inversion for design space determination in pharmaceutical product development. *Comput. Chem. Eng.*, **101**, 110-124
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- F. Dal-Pastro, P. Facco, F. Bezzo, E. Zamprogna, M. Barolo (2016). Data-driven modeling of milling and sieving operations in a wheat milling process. *Food Bioprod. Process.*, **99**, 99-108
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- A. Bernardi, A. Nikolaou, A. Meneghesso, T. Morosinotto, B. Chachuat, F. Bezzo (2016). High-fidelity modelling methodology of light-limited photosynthetic production in microalgae. *PLOS ONE*, **11**, e0152387
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- F. Galvanin, R. Marchesini, M. Barolo, F. Bezzo, M. Fidaleo (2016). Optimal design of experiments for parameter identification in electro dialysis models. *Chem. Eng. Res. Des.*, **105**, 107–119
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### **Invited talks**

F. Bezzo (2013). Strategic design of biofuel supply chains: a process systems engineering perspective. *EURO-INFORMS XXVI 26th European Conference on Operational Research*, Rome (Italy), 30 June – 4 July 2013

F. Bezzo (2011) “Enhanced model-based experiment design techniques for parameter identification in complex dynamic systems under uncertainty”, *Experiments for Processes With Time or Space Dynamics*, 18-22 July 2011, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK

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