

### **Additive effects on the solvent-mediated anhydrate/hydrate phase transformation in a mixed solvent**

Qu, Haiyan; Louhi-Kultanen, Marjatta; **Kallas, Juha** *Crystal growth & design* 2007 / 4, p. 724-729

<https://pubs.acs.org/doi/10.1021/cg060686s>

### **An insight into interparticle forces and filterability of potassium sulphate crystals precipitated with ethanol and acetone [Electronic resource]**

Louhi-Kultanen, Marjatta; Llansana Arnalot, A.; Nyström, Lars; **Kallas, Juha** *ECCE-6 proceedings : 6th European Congress on Chemical Engineering (ECCE-6) : Copenhagen, 16-21 September 2007* / ? p. [CD-ROM]

[https://folk.ntnu.no/skoge/prost/proceedings/ecce6\\_sep07/upload/685.pdf](https://folk.ntnu.no/skoge/prost/proceedings/ecce6_sep07/upload/685.pdf)

### **Calcium carbonate precipitation : modelling of reaction kinetics in tubular reactor**

Hautaniemi, Marjaana; Impola, O.; Solismaa, P.; Kukkamäki, E.; **Kallas, Juha**; Louhi-Kultanen, Marjatta *ISIC 18 : 18th International Symposium on Industrial Crystallization : 13-16 September 2011, Zurich, Switzerland : book of abstracts 2011* / p. 41-42 : ill

### **CFD modelling of solid-liquid suspension flow in a horizontal pipe [Electronic resource]**

Yang, Guangyu; Enqvist, Yuko; Qu, Haiyan; Louhi-Kultanen, Marjatta; **Kallas, Juha**; Wang, J. *ECCE-6 proceedings : 6th European Congress on Chemical Engineering (ECCE-6) : Copenhagen, 16-21 September 2007* / ? p. [CD-ROM]

[https://folk.ntnu.no/skoge/prost/proceedings/ecce6\\_sep07/upload/1132.pdf](https://folk.ntnu.no/skoge/prost/proceedings/ecce6_sep07/upload/1132.pdf)

### **CFD simulation of particle size distribution in suspension crystallization**

Sha, Zuo-Liang; Yang, Guang-Yu; Louhi-Kultanen, Marjatta; **Kallas, Juha** *ACFD 2000 Beijing : International Conference on Applied Computational Fluid Dynamics : October 17-20, 2000, Beijing, China : selected papers 2000* / p. 53-59 : ill

### **Crystallization of glycine with ultrasound**

Louhi-Kultanen, Marjatta; Karjalainen, Milja; Rantanen, Jukka; Huhtanen, Mikko; **Kallas, Juha** *International journal of pharmaceuticals* 2006 / 1/2, p. 23-29 : ill

### **Determination of operating conditions for controlled batch cooling crystallization**

Yang, Guangyu; Louhi-Kultanen, Marjatta; Sha, Zuoliang; **Kallas, Juha** *Chemical engineering and technology* 2006 / 2, p. 200-205 : ill

<https://onlinelibrary.wiley.com/doi/pdf/10.1002/ceat.200500351>

### **Filter cake washing : partial dissolution of organic particles and real-time monitoring based on Raman spectroscopy**

Louhi-Kultanen, Marjatta; **Qu, Haiyan**; Salmela, Nina; **Kallas, Juha**; Nyström, Lars *Separation, purification, technology* 2008 / p. 270-276 <https://www.sciencedirect.com/science/article/pii/S1383586607002961>

### **Filterability and ageing of crystalline potassium sulphate salted-out with ethanol and acetone**

Louhi-Kultanen, Marjatta; Llansana Arnalot, A.; Nyström, Lars; **Kallas, Juha** *Filtration* 2007 / 2, p. 159-167

### **Flow patterns and slip velocities of crystals in a 100 liters suspension crystallizer equipped with two turbine impellers**

Hatakka, M.; Liiri, Maret; Aittamaa, Juhani; Alopaeus, Ville; Louhi-Kultanen, Marjatta; **Kallas, Juha** *Proceedings of 17th International Symposium of Industrial Crystallization : 665th Event of EFCE in combination of 8th Workshop of Crystal Growth of Organic Materials : ISIC 17 - CGOM 8 : Maastricht (The Netherlands), September 14-17. 3 2008* / p. 1851-1858

<https://research.aalto.fi/en/publications/flow-patterns-and-slip-velocities-of-crystals-in-a-100-liters-sus>

### **Fouling of filter media : solubility of oxalate solutions**

Salmimies, Riina; Louhi-Kultanen, Marjatta; Ekberg, Bjärne; Häkkinen, Antti; **Kallas, Juha**; Huhtanen, Mikko *Proceedings of the 10th World Filtration Congress : Leipzig, Germany, April 14-18. 1 2008* / p. I-81 - I-85

### **Hospital wastewater treatment with pilot-scale pulsed corona discharge for removal of pharmaceutical residues**

Ajo, Petri; **Preis, Sergei**; Vomano, Timo; Mänttari, Mika; Kallioinen, Mari; Louhi-Kultanen, Marjatta *Journal of environmental chemical engineering* 2018 / p. 1569-1577 : ill <https://doi.org/10.1016/j.jece.2018.02.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Hydroxyl radical behavior in water treatment with gas-phase pulsed corona discharge**

Ajo, Petri 2018 <http://urn.fi/URN:ISBN:978-952-335-213-1>

### **In-line image analysis on the effects of additives in batch cooling crystallization**

Qu, Haiyan; Louhi-Kultanen, Marjatta; **Kallas, Juha** *Journal of crystal growth* 2006 / 1, p. 286-294 : ill

<https://www.sciencedirect.com/science/article/pii/S0022024805014181>

### **In-line monitoring of reactive crystallization process based on ATR FTIR and Raman spectroscopy**

Alatalo, Hannu; Kohonen, Jarno; Qu, Haiyan; Hatakka, Henry; Reinikainen, Satu-Pia; Louhi-Kultanen, Marjatta; **Kallas, Juha** *10th Scandinavian Symposium on Chemometrics : 11-15 June, Lappeenranta, Finland 2007* / ? p

[https://www.academia.edu/16648175/In\\_line\\_monitoring\\_of\\_reactive\\_crystallization\\_process\\_based\\_on\\_ATR\\_FTIR\\_and\\_Raman\\_spectroscopy](https://www.academia.edu/16648175/In_line_monitoring_of_reactive_crystallization_process_based_on_ATR_FTIR_and_Raman_spectroscopy)

### **In-line monitoring of reactive crystallization process based on ATR-FTIR and Raman spectroscopy**

Alatalo, Hannu; Kohonen, Jarmo; Qu, Haiyan; Hatakka, Henry; Reinikainen, Satu-Pia; Louhi-Kultanen, Marjatta; **Kallas, Juha** Journal of chemometrics 2008 / 11/12, p. 644-652 : ill <https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.1002/cem.1161>

#### **A model for the prediction of supersaturation level in batch cooling crystallization**

Yang, Guangyu; Louhi-Kultanen, Marjatta; Sha, Zuoliang; Kubota, Noriaki; **Kallas, Juha** Journal of chemical engineering of Japan 2006 / p. 426-436 : ill <https://research.aalto.fi/en/publications/a-model-for-the-prediction-of-supersaturation-level-in-batch-cool>

#### **Multicomponent diffusion in purification by crystallization**

Louhi-Kultanen, Marjatta; **Kallas, Juha**; Partanen, Juha; Palosaari, Seppo Proceedings of the 14th International Symposium on Industrial Crystallization : Cambridge, UK, September 12-16, 1999 1999 / [12] p

#### **RAMAN and ATR FTIR spectrometry in reactive crystallization : simultaneous monitoring of solute concentration and polymorphic state of crystals**

Qu, Haiyan; Alatalo, Hannu; Dai, Y.; Kohonen, Jarmo; Hatakka, Henry; Louhi-Kultanen, Marjatta; Reinikainen, Satu-Pia; **Kallas, Juha** Proceedings of 17th International Symposium of Industrial Crystallization : 665th Event of EFCE in combination of 8th Workshop of Crystal Growth of Organic Materials : ISIC 17 - CGOM 8 : Maastricht (The Netherlands), September 14-17. 2 2008 / p. 753-760

#### **Raman and ATR FTIR spectroscopy in reactive crystallization : simultaneous monitoring of solute concentration and polymorphic state of the crystals**

Qu, Haiyan; Alatalo, Hannu; Hatakka, Henry; Kohonen, Jarmo; Louhi-Kultanen, Marjatta; Reinikainen, Satu-Pia; **Kallas, Juha** Journal of crystal growth 2009 / 13, p. 3466-3475 : ill <https://www.sciencedirect.com/science/article/pii/S0022024809004527>

#### **Raman spectroscopy in API processing : pre-processing of Raman spectra and in-line monitoring of batch crystallization**

Qu, Haiyan; Kohonen, Jarmo; Reinikainen, Satu-Pia; Louhi-Kultanen, Marjatta; **Kallas, Juha** 10th Scandinavian Symposium on Chemometrics : 11-15 June, Lappeenranta, Finland 2007 / ? p

#### **Simultaneous monitoring of crystal and mother liquor phases during batch crystallization using in-line Raman spectroscopy**

Qu, Haiyan; Louhi-Kultanen, Marjatta; **Kallas, Juha** 6th European Congress on Chemical Engineering (ECCE-6) : 16-21 September, Copenhagen 2007 / ? p [https://folk.ntnu.no/skoge/prost/proceedings/ecce6\\_sep07/cdrom/abstract/878/index.html](https://folk.ntnu.no/skoge/prost/proceedings/ecce6_sep07/cdrom/abstract/878/index.html)

#### **Spectroscopic monitoring of carbamazepine crystallization and phase transformation in ethanol-water solution**

Qu, Haiyan; Kohonen, Jarmo; Louhi-Kultanen, Marjatta; Reinikainen, Satu-Pia; **Kallas, Juha** Industrial & engineering chemistry 2008 / p. 6991-6998

#### **Stability and transformation kinetics of an anhydrite/hydrate system of mixed solvents**

Qu, Haiyan; Louhi-Kultanen, Marjatta; **Kallas, Juha** BWIC2 2006 : 13th International Workshop on Industrial Crystallization : September 13-15, 2006 2006 / p. 185-192

#### **Verification of multi-phase flow model and identification of sliding grid technologies for CFD simulation in stirred tank**

Sha, Zuo-Liang; Yang, Guang-Yu; Louhi-Kultanen, Marjatta; **Kallas, Juha** ACFD 2000 Beijing : International Conference on Applied Computational Fluid Dynamics : October 17-20, 2000, Beijing, China : selected papers 2000 / p. 118-124 : ill