

Arenenud hapendusprotsesside modelleerimine

Hautaniemi, Marjaana; **Kallas, Juha** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 28: ill

Calcium carbonate precipitation : modelling of reaction kinetics in tubular reactor

Hautaniemi, Marjaana; Imppola, 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

Destruction of toxic and carcinogenic aromatic compounds by advanced oxidation processes

Trapido, Marina; **Veressinina, Jelena**; **Kallas, Juha**; Hautaniemi, Marjaana; **Munter, Rein** The 1998 European Workshop on Water and Air Treatment by Advanced Oxidation Technologies : Innovative and Commercial Applications, EPFL, Lausanne, Switzerland, October 11-14, 1998 : abstracts 1998 / p. 46

Kinetic modeling of the promoted and unpromoted wet oxidation of debarking evaporation concentrates

Verenich, Svetlana; **Roosalu, Kati**; Hautaniemi, Marjaana Chemical engineering journal 2005 / 1/2, p. 101-108
<https://www.sciencedirect.com/science/article/pii/S1385894705000197>

Kinetic modelling of wet oxidation treated debarking water

Kindsigo, Merit; Hautaniemi, Marjaana; **Kallas, Juha** Proceedings of the Estonian Academy of Sciences 2010 / 3, lk. 233-242 : ill

Modeling calcium dissolution from oil shale ash. Part 1, Ca dissolution during ash washing in a batch reactor

Velts, Olga; Hautaniemi, Marjaana; **Kallas, Juha**; **Kuusik, Rein**, **keemik** Fuel processing technology 2010 / 5, p. 486-490 : ill

Modeling calcium dissolution from oil shale ash. Part 2, Continuous washing of the ash layer

Velts, Olga; Hautaniemi, Marjaana; **Kallas, Juha**; Kuosa, Markku; **Kuusik, Rein**, **keemik** Fuel processing technology 2010 / 5, p. 491-495 : ill

Modelling advanced oxidation treatment of polycyclic aromatic hydrocarbons

Hautaniemi, Marjaana; **Kallas, Juha**; **Munter, Rein**; **Trapido, Marina**; **Veressinina, Jelena** Proceedings of the Estonian Academy of Sciences. Chemistry 1999 / p. 80-95 https://www.ester.ee/record=b1072099*est

Modelling of advanced oxidation processes

Hautaniemi, Marjaana; **Kallas, Juha** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 33: ill

Modelling of chlorophenol treatment in aqueous solutions. 1, Ozonation and ozonation combined with UV radiation under acidic conditions

Hautaniemi, Marjaana; **Kallas, Juha**; **Munter, Rein**; **Trapido, Marina** Ozone : science & engineering 1998 / 4, p. 259-282: ill

Modelling of chlorophenol treatment in aqueous solutions. 2, Ozonation under basic conditions

Hautaniemi, Marjaana; **Kallas, Juha**; **Munter, Rein**; **Trapido, Marina**; Laari, Arto Ozone : science & engineering 1998 / 4, p. 283-302: ill

Modelling of CO2 mass transfer and hydrodynamics in a semi-batch reactor

Velts, Olga; Hautaniemi, Marjaana; **Uibu, Mai**; **Kallas, Juha**; **Kuusik, Rein**, **keemik** Journal of international scientific publication : materials, methods & technologies 2010 / 2, p. 68-79 : ill
https://www.researchgate.net/publication/284688605_Modelling_of_CO2_mass_transfer_and_hydrodynamics_in_a_semi-batch_reactor

Modelling of fast ozonation reactions in aqueous solutions

Hautaniemi, Marjaana; **Kallas, Juha**; Laari, A.; **Trapido, Marina**; **Munter, Rein** Regional Conference on Ozone Generation and Application to Water and Waste Water Treatment : ECWATECH-98, Moscow, Russia, 26-28 May, 1998 : proceedings 1998 / p. 145-160: ill

Modelling of ozonation of EDTA in aqueous solutions in semicontinuous bubble columns - comparison: fundamental model vs. neural networks

Hautaniemi, Marjaana; **Kallas, Juha**; Palosaari, Seppo; Korhonen, Susanna; Tuhkanen, Tuula; **Munter, Rein** Proceedings of the 14th Ozone World Congress : Dearborn, Michigan, USA, 1999 : oral & poster presentations. Vol. 2 1999 / p. 405-419: ill

Modelling of water treatment by chemical oxidation

Hautaniemi, Marjaana; **Kallas, Juha** Proceedings of 2nd Nordic Symposium on Reactive Separation Systems, Helsinki University of Technology, Otaniemi, Finland, June 6th-7th, 1996 1996 / p. 156-165

Ozonation and advanced oxidation of polycyclic aromatic hydrocarbons - mathematical modelling

Hautaniemi, Marjaana; **Kallas, Juha**; **Munter, Rein**; **Trapido, Marina**; **Veressinina, Jelena** 1997

Ozonation and advanced oxidation processes of polycyclic aromatic hydrocarbons - mathematical modelling

Kallas, Juha; Hautaniemi, Marjaana; **Munter, Rein**; **Trapido, Marina**; **Veressinina, Jelena** Regional Conference on Ozone,

Ultraviolet Light, Advanced Oxidation Processes in Water Treatment, Amsterdam, Netherlands, 24-26 September 1996 1996 / p. 395-409: ill

Ozonation and O₃/H₂O₂ treatment of the Lake Ulemiste water

Munter, Rein; Maripuu, Lea; Kamenev, Sven; Kallas, Juha; Hautaniemi, Marjaana Regional Conference on Ozone, Ultraviolet Light, Advanced Oxidation Processes in Water Treatment, Amsterdam, Netherlands, 24-26 September 1996 1996 / p. 477-493: ill

Ozone and UV in chlorophenols treatment : mathematical modelling

Hautaniemi, Marjaana; **Kallas, Juha; Trapido, Marina; Munter, Rein** International Conference on Ozonation and Related Oxidation Processes in Water and Liquid Waste Treatment 1997 / p. II.3.1-II.3.16: ill

Water treatment : ozonation of chlorophenols in aqueous solutions

Hautaniemi, Marjaana; **Kallas, Juha;** Laari, A. 3rd Nordic Symposium on Reactive Separation Systems, Helsinki, June 16-17, 1997 1997 / p. 92-102

Wet oxidation of recalcitrant lignin water solution : experimental and reaction kinetics [Electronic resource]

Kindsigo, Merit; Hautaniemi, Marjaana; **Kallas, Juha** Environmental Applications of Advanced Oxidation Processes : Chania, September 7-9, 2006 : book of abstracts 2006 / [CD-ROM] <https://link.springer.com/article/10.1007/s10311-008-0151-4>

Wet oxidation of recalcitrant lignin water solutions : experimental and reaction kinetics

Kindsigo, Merit; Hautaniemi, Marjaana; **Kallas, Juha** Environmental chemistry letters 2009 / 2, p. 155-160
<https://link.springer.com/article/10.1007/s10311-008-0151-4>