

A multicomponent film model and evaluation of interfacial fluxes

Kallas, Juha Chemical engineering science = Le journal international de génie chimique 1980 / p. 464-465

https://www.ester.ee/record=b1199741*est

Acidic dissolution of hematite : kinetic and thermodynamic investigations with oxalic acid

Salmimies, Riina; Mannila, Marju; **Kallas, Juha**; Häkkinen, Antti International journal of mineral processing 2012 / p. 121-125 : ill

Acidic dissolution of magnetite: experimental study on the effects of acid concentration and temperature

Salmimies, Riina; Mannila, M.; **Kallas, Juha**; Häkkinen, Antti Clays and clay minerals 2011 / p. 136-146 : ill

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>

Adsorption of 2,4-xylidine on granulated activated carbon in a packed bed absorber [Electronic resource]

Reinik, Janek; **Kallas, Juha** Proceedings : 6th Nordic Symposium on Petrophysics : 15-16 May 2001, Trondheim, Norway 2003 / p. 1-5 : ill. [CD-ROM] http://www.ipt.ntnu.no/nordic/Papers/6th_Nordic_Reinik.pdf

Advanced oxidation processes against industrial phenolic wastewaters

Kallas, Juha; **Kamenev, Sven** International Workshop on Pollution Prevention and Waste Minimization, 23-24 May, 1995, Lappeenranta, Finland 1995 / p. 50-51

Advanced oxidation processes against phenolic compounds in wastewater treatment

Preis, Sergei; **Kamenev, Sven**; **Kallas, Juha**; **Munter, Rein** Proceedings of International Ozone Association Regional Conference, Zurich, 31 August-2 September 1994 1994 / p. 187-204: ill

Advanced oxidation processes against phenolic compounds in wastewater treatment

Preis, Sergei; **Kamenev, Sven**; **Kallas, Juha**; **Munter, Rein** Ozone : science & engineering 1995 / 4, p. 399-418: ill

Advanced oxidation processes (AOPs) : water treatment technology for the Twenty-first Century

Munter, Rein; **Preis, Sergei**; **Kallas, Juha**; **Trapido, Marina**; **Veressinina, Jelena** Kemia-kemi 2001 / 5, p. 354-362 : ill

Advanced oxidation processes for phenolic wastewater posttreatment

Terentjeva, Jelena; **Kamenev, Sven**; **Kallas, Juha** Kemia 94 : Finnish Chemical Congress and Exhibition, 8.-10.11.1994 : abstracts 1994 / p. 35-36

Advanced oxidation processes for the degradation and detoxification of 4-nitrophenol

Trapido, Marina; **Kallas, Juha** Environmental technology 2000 / p. 799-808

Aerobic bio-oxidation combined with ozonation for recalcitrant wastewater treatment

Kamenev, Inna; **Viioja, Andres**; **Kallas, Juha** Third International Conference on Oxidation Technologies for Water and Wastewater Treatment - Special Topic: AOP's for Recycling and Reuse : 18-22 May 2003, Goslar, Germany 2003 / p. 952-957

Aerobic bio-oxidation combined with ozonation in recalcitrant wastewater treatment

Kamenev, Inna; **Pikkov, Lui**; **Kallas, Juha** International Conference EcoBalt'2002, Riga, June 7-8, 2002 2002 / p. 20-25 : ill

Aerobic bio-oxidation combined with ozonation in recalcitrant wastewater treatment

Kamenev, Inna 2003 http://www.ester.ee/record=b1782585*est

Aerobic bio-oxidation combined with ozonation in the treatment of landfill leachates

Kamenev, Inna; **Pikkov, Lui**; **Kallas, Juha** Proceedings of the Estonian Academy of Sciences. Chemistry 2002 / 3, p. 148-155 : ill

Aerobic bio-oxidation with ozonation for recalcitrant wastewater treatment

Kamenev, Inna; **Viioja, Andres**; **Kallas, Juha** Journal of advanced oxidation technologies 2008 / 2, p. 338-347

Aerobic bio-oxidation with ozonation in pulp and paper mill wastewater and phenolic wastewater treatment

Kamenev, Inna; **Viioja, Andres**; **Kallas, Juha** Proceedings of International Conference on Ozone : a Clean Source for Activated Oxygen Oxidations and Disinfection : 7-11 April, 2003, Berlin 2003 / p. 247-264

Aeroobse biopuhasti aktiivmassi adaptatsiooni mõju puhasti töö stabiilsusele

Pikkov, Lui; **Kamenev, Inna**; **Ojaste, Haldi**; **Kallas, Juha** XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 112-113

Aktiivsöe valmistamise võimalused biomudast

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

Aqueous photocatalytic oxidation of lignin : the influence of mineral admixtures

Portjanskaja, Elina; Preis, Sergei; Kallas, Juha Solar Chemistry and Photocatalysis : Environmental Applications 2006 (SPEA) : Spain, Las Palmas, November 2006 2006 / ? p

Aqueous photocatalytic oxidation of lignin and humic acids with supported TiO₂

Portjanskaja, Elina; Preis, Sergei; Kallas, Juha International journal of photoenergy 2006 / [7] p

Aqueous photocatalytic oxidation of lignin and humic substances with supported TiO₂

Portjanskaja, Elina; Preis, Sergei; Kallas, Juha 6th European Meeting Environmental Chemistry : December 6-10, 2005, Belgrade, Serbia and Montenegro 2005 / p. 145

Arenenud hapendusprotsesside modelleerimine

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

Behaviour of sulfur compounds during aqueous leaching of oil shale ash

Tamm, Kadriann; Kuusik, Rein, keemik; Uibu, Mai; Kallas, Juha Proceedings of the 4th International Conference on Accelerated Carbonation for Environmental and Materials Engineering : ACEME 2013 : April 9-12, 2013, Leuven, Belgium 2013 / p. 541-545 : ill

Bubble break-up and gas-liquid mass transfer in bubble column reactors with a T-junction two-phase nozzle for gas dispersion

Laari, A.; **Kallas, Juha**; Palosaari, Seppo 12th International Congress of Chemical and Process Engineering : CHISA'96, Praha, Czech Republic, 25-30 August 1996 : summaries. 3, Extraction Membrane Processes Distillation and Absorption Crystallisation 1996 / p. 193

Calcium carbonate crystallization on the basis of waste oil shale ash leachates

Velts, Olga; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik ISIC 18 : 18th International Symposium on Industrial Crystallization : 13-16 September 2011, Zurich, Switzerland : book of abstracts 2011 / p. 501 : ill

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

Calculation of multicomponent superloaded water steam distillation

Kallas, Juha; Reile, Rein; Siirde, Enno Kemia-Kemi 1981 / p. 697-699 https://www.ester.ee/record=b1201067*est

Catalytic ozonation of m-dinitrobenzene

Trapido, Marina; Veressinina, Jelena; Munter, Rein; Kallas, Juha Advances in Science and Engineering for Industrial Applications of Ozone and Related Oxidants : International Conference : Barcelona, Spain, March 10-12, 2004 : proceedings 2004 / p. I.1.6-1 - I.1.6-6 : ill

Catalytic ozonation of m-dinitrobenzene

Trapido, Marina; Veressinina, Jelena; Munter, Rein; Kallas, Juha Ozone : science and engineering 2005 / 5, p. 359-363 : ill

Catalytic TiO₂ oxidation of ethanethiol for environmentally benign air pollution control of sulphur compounds

Katšina, Anna; Preis, Sergei; Kallas, Juha Environmental chemistry letters 2006 / 2, p. 107-110

CFD modelling of single crystal growth of potassium dihydrogen phosphate (KDP) from binary water-solution at 30 C

Liiri, Maret; Enqvist, Yuko; **Kallas, Juha**; Aittamaa, Juhani Journal of crystal growth 2006 / 2, p. 413-423 : 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

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

Characteristics of activated carbon produced from biosludge and its use in wastewater post-treatment

Pikkov, Lui; Kallas, Juha; Rütütmann, Tiia; Rikmann, Ergo Environmental technology 2001 / p. 229-236 : ill

Characterization of filter media used in the dewatering of iron ore

Salmimies, Riina; Häkkinen, Antti; Kallas, Juha; Ekberg, Bjarne; Andreassen, Jens-Petter; Beck, Ralf NoFS-13 : proceedings of the 13th Nordic Filtration Symposium: June 10-11, 2010, Lappeenranta, Finland 2010 / p. 173-178 : ill

Chemical and biochemical oxidation in wastewater treatment technology : mass transfer and reaction kinetics

Kamenev, Inna; Viiraja, Andres; Kallas, Juha Scientific proceedings of Riga Technical University. Series: Material Science and Applied Chemistry 2002 / p. 47-58 : ill

Chemical engineering and the chemical industry in Estonia

Kallas, Juha Kemia-kemi 1990 / 2, p. 121-125: ill

Chemical engineering in Estonia

Kallas, Juha Kemia-Kemi 1989 / p. 1057 https://www.ester.ee/record=b1201067*est

Chemical oxidation of biologically treated phenolic effluents

Kamenev, Sven; Kallas, Juha; Munter, Rein; Trapido, Marina Waste management 1995 / 3, p. 203-208: ill

Chemical oxidation of ferrous iron in aqueous solutions and groundwater samples

Munter, Rein; Trapido, Marina; Veressinina, Jelena; Kallas, Juha Proceedings of the Estonian Academy of Sciences. Chemistry 1999 / 4, p. 174-181: ill

Chemical plant model generator

Aarna, Olav; Kallas, Juha; Uibo, Erik 1st IFAC/IFIP Symposium on Software For Computer Control, Tallinn, USSR, 25-28 May 1976 / p. 93-97 : ill [https://doi.org/10.1016/S1474-6670\(17\)67405-6](https://doi.org/10.1016/S1474-6670(17)67405-6)

Chemicals and lignin from black liquor by a wet oxidation process

Melin, Johan Kristian; Mudassar, Hassan Raja; Hurme, Markku; Koskinen, Jukka; Kallas, Juha SustainChem2011 : International Conference on Materials and Technologies for Green Chemistry jointly with Workshop of COST Action CM0903 (UBIOCHEM-II) : September 5-9, 2011, Tallinn, Estonia : abstract book and program 2011 / p. 154

CO₂ mineral trapping : modeling of calcium carbonate precipitation in a semi-batch reactor

Velts, Olga; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik Energy procedia 2011 / p. 771-778 : ill

CO₂ mineralisation : concept for co-utilization of oil shale energetics waste streams in CaCO₃ production

Velts, Olga; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik Energy procedia 2013 / p. 5921-5928 : ill
<https://www.sciencedirect.com/science/article/pii/S1876610213007613> <https://doi.org/10.1016/j.egypro.2013.06.518> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

CO₂ mineralisation : production of CaCO₃-type material in a continuous flow disintegrator-reactor

Velts, Olga; Kindsigo, Merit; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik Energy procedia 2014 / p. 5904-5911 : ill
<https://doi.org/10.1016/j.egypro.2014.11.625> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

CO₂ mineralization in cement sector : Lab scale experiments on burnt oil shale and concrete demolition wastes

Uibu, Mai; Usta, Mustafa Cem; Tamm, Kadriann; Žuravljova, Anastassia; Kallas, Juha; Kuusik, Rein, keemik; Triikkel, Andres enos-project.eu 2018 / 18 p. : ill <http://www.enos-project.eu/highlights/conference/basreccs-enos-workshop/> http://www.enos-project.eu/media/15321/8-basreccs-enos_muibu.pdf

CO₂ trapping from flue gases by oil shale ash aqueous suspension : Intensification and modeling of the process

Kuusik, Rein, keemik; Uibu, Mai; Velts, Olga; Triikkel, Andres; Kallas, Juha Third International Conference on Accelerated Carbonation for Environmental and Materials Engineering : ACEME10 : November 29 - December 1, 2010, Turku, Finland : proceedings 2010 / p. 227-235 : ill

Combination of coagulation and catalytic wet oxidation for the treatment of pulp and paper mill effluents

Verenich, Svetlana; Laari, A.; Kallas, Juha; Nissen, M. Oxidation Technologies for Water and Wastewater Treatment : 2nd International Conference 2000 / p. 164-165

Combination of coagulation and catalytic wet oxidation for the treatment of pulp and paper mill effluents

Verenich, Svetlana; Laari, A.; Kallas, Juha Water science and technology 2001 / 5, p. 145-152 <https://iwaponline.com/wst/article-abstract/44/5/145/15174/Combination-of-coagulation-and-catalytic-wet?redirectedFrom=fulltext>

Comparative studies of AOP for aromatic and polyaromatic hydrocarbons destruction

Munter, Rein; Kallas, Juha; Preis, Sergei; Kamenev, Sven; Trapido, Marina; Veressinina, Jelena 12th Ozone World Congress,

Comparison of ozonation and wet oxidation for the removal of lipophilic wood extractives from paper mill circulation water

Laari, A.; Korhonen, Susanna; Tuhkanen, Tuula; Edelmann, K.; Verenich, Svetlana; Bankier, Siret; **Kallas, Juha** Proceedings of the International Conference on Applications of Ozone and also on UV and Related Ozone Technologies (in conjunction with IUVA) : AT Wasser Berlin 2000 : October 23-26 2000 / p. 111-124 <https://www.tandfonline.com/doi/abs/10.1080/01919510108962023>

Comparison of regeneration methods for ceramic filter media

Puranen, J.; Ekberg, Bjarne; Häkkinen, Antti; **Kallas, Juha** Proceedings of the 10th World Filtration Congress : Leipzig, Germany, April 14-18. 1 2008 / p. I-165 - I-169
https://www.researchgate.net/publication/287656959_Comparison_of_regeneration_methods_for_ceramic_filter_media

Co-utilization of CO₂ and oil shale combustion wastes for production of PCC-type material

Velts, Olga; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik 12th International Conference on Carbon Dioxide Utilization : ICCDU XII 2013 : June 23-27, 2013, Alexandria, VA, USA, Westin Hotel 2013 / p. 230

Co-utilization of CO₂ and waste oil shale ash to produce calcium carbonate

Velts, Olga; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik 11th International Conference on Carbon Dioxide Utilization (ICCDU XI), June 27-30, 2011, Dijon, France : programm & abstracts 2011 / p. P133 : ill

Crystallization of calcium carbonate on the basis of oil shale waste ash in a continuous flow disintegrator-reactor

Velts, Olga; Kindsigo, Merit; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik ISIC 19 : 19th International Symposium on Industrial Crystallization : book of abstracts : 16-19 September 2014, Toulouse - France 2014 / p. 359-360 : ill

Crystallization of glycine with ultrasound

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

Degradation of aqueous nitrophenols by ozone combined with UV-radiation and hydrogen peroxide

Trapido, Marina; Veressinina, Jelena; Kallas, Juha Ozone : science & engineering 2001 / 4, p. 333-342 : ill

Degradation of nitrophenols by ozone combined with UV-radiation and hydrogen peroxide

Trapido, Marina; Veressinina, Jelena; Kallas, Juha Proceedings of the International Conference on Applications of Ozone and also on UV and Related Ozone Technologies (in conjunction with IUVA) : AT Wasser Berlin 2000 : October 23-26 2000 / p. 421-435

Deodorization of cocoa butter, fish fat and the fat of fur-bearing animals

Rüütman, Tiia; Kallas, Juha Fett-Wissenschaft Technologie = Fat-science technology 1994 / 7, p. 259-266: ill

Department of Chemical Engineering

Siirde, Enno; Kallas, Juha; Munter, Rein; Tearo, Eduard; Uus, Endel; Aarna, Olav; Kracht, Wilhelm Research activities / Tallinn Technical University 1993 / p. 41-44 https://www.ester.ee/record=b1053754*est

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

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>

Determination of the Henry's coefficient and mass transfer for ozone in a bubble column at different pH values of water

Kuosa, Markku; Laari, Arto; **Kallas, Juha** Ozone : science & engineering 2004 / 3, p. 277-286
<https://www.tandfonline.com/doi/full/10.1080/01919510490455746>

Development of testing procedure for ceramic disc filters

Savolainen, Mikko; Huhtanen, Mikko; Häkkinen, Antti; Ekberg, Bjarne; Hindström, R.; **Kallas, Juha** Minerals engineering 2011 / p. 876-885 : ill

Development of testing procedure for ceramic disc filters [Electronic resource]

Savolainen, Mikko; Häkkinen, Antti; Ekberg, Bjarne; **Kallas, Juha** Physical Separation 09 : Falmouth, Cornwall, UK, June 16-17, 2009 2009 / ? p. [CD-ROM] <https://www.sciencedirect.com/science/article/abs/pii/S0892687511001129>

Developments in CO₂ mineral carbonation by oil shale ash

Uibu, Mai; Velts, Olga; Triikkel, Andres; Kallas, Juha; Kuusik, Rein, keemik 2nd International Conference on Accelerated

Carbonation for Environmental and Materials Engineering : October 1-3, 2008, Rome, Italy : proceedings 2008 / p. 421-430 : ill

2,4-xylydine degradation with ozonation : mass transfer and reaction kinetics

Reinik, Janek; **Jakobsson, Kaj**; Kallas, Juha IOA-EA3G : International Conference in Conjunction with Wasser-Berlin-2003 2003 / p. 435-445

2,4-xylydine degradation with ozonation : mass transfer and reaction kinetics

Reinik, Janek; **Jakobsson, Kaj**; Kallas, Juha Ozone : science & engineering 2004 / 5, p. 499-509

Dissolution of magnetite particles in acidic conditions

Salmimies, Riina; Häkkinen, Antti; Ekberg, Bjärne; **Kallas, Juha** FILTECH 2009, Wiesbaden, October 13-15, 2009 2009 / ? p

Edusammud põlevkivituha uude rakenduste väljatöötamises

Velts, Olga; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 107 : ill

Eesti NSV ei saa üle minna isemajandamisele, ...

Kallas, Juha Tallinna Polütehnik 1988 / lk. 2 <https://digikogu.taltech.ee/et/Item/1bcf58e8-b124-4c56-9def-5dcc79038459>

Effect of flotation time and collector dosage on Estonian phosphorite beneficiation

Tamm, Kadriann; Zadeh, Zeinab Arab; Kuusik, Rein, keemik; Kallas, Juha; Yang, Jason; Tõnsuaadu, Kaia; Triikkel, Andres Minerals 2021 / art. 114 <https://doi.org/10.3390/min11020114> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Efforts in oil shale ash indirect carbonation accompanied by PCC-type material formation

Velts, Olga; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik Proceedings of the 4th International Conference on Accelerated Carbonation for Environmental and Materials Engineering : ACEME 2013 : April 9-12, 2013, Leuven, Belgium 2013 / p. 341-348 : ill

Empirical modelling of cake washing in a pressure filter

Huhtanen, Mikko; **Kallas, Juha** Separation science and technology 2012 / p. 1102-1112 : ill
<https://www.tandfonline.com/doi/full/10.1080/01496395.2011.644877>

Enhancement of aerobic biooxidation with Ozone in Phenolic Wastewater Treatment

Kamenev, Inna; Viiraja, Andres; Kallas, Juha Proceedings of 17th World Congress and Exhibition "Ozone and Related Oxidants. Innovative and Current Technologies" : Strasbourg, France, August 22-25, 2005 2005 / ? p

Environmental engineering education at the Tallinn Technical University

Munter, Rein; Mikkal, Valdek; Kallas, Juha; Lääne, Ain; Velner, Harald-Adam Proceedings 5th World Conference on Continuing Engineering Education, June 2-5, 1992, Espoo, Finland. Vol. 1 1992 / p. 569-574: ill

Equilibrium calculations in aqueous carbonation of oil shale waste-sulfur compounds

Tamm, Kadriann; Uibu, Mai; Kallaste, Priit; Kuusik, Rein, keemik; Kallas, Juha Proceedings of 2nd World Congress on Petrochemistry and Chemical Engineering : October 27-29, 2014, Embassy Suites Las Vegas, USA 2014 / p. 40

Equilibriums in aqueous carbonation of oil shale waste

Tamm, Kadriann; Uibu, Mai; Kallaste, Priit; Kuusik, Rein, keemik; Kallas, Juha TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

Estimation of ozonation kinetics in a small bubble column

Viiraja, Andres; Kamenev, Inna; Kallas, Juha Proceedings of 17th International Ozone Association World Congress and Exhibition "Ozone and Related Oxidants. Innovative and Current Technologies" : Strasbourg, France, August 22-25, 2005 2005 / ? p

Estonian ground water : quality problems and possible technology for improvement

Munter, Rein; Kallas, Juha; Trapido, Marina; Veressinina, Jelena; Looits, Hilja EcoBalt '2000 : starptautiska konference = international conference : Riga, 2000. gada 26.-27. maija. I 2000 / p. I-17 - I-27

Estonian ground water: quality problems and technology for improvement

Munter, Rein; Kallas, Juha; Trapido, Marina; Veressinina, Jelena; Looits, Hilja Kemia-Kemi 1999 / 7, p. 552-556

Estonian phosphate rock dissolution in hydrochloric acid : optimization of acid dosage and concentration

Tõnsuaadu, Kaia; Kallas, Juha; Kallaste, Toivo; Urtson, Kristjan; Einard, Marve; Martin, Rasmus; Kuusik, Rein; Triikkel, Andres Minerals 2023 / art. 578 <https://doi.org/10.3390/min13040578> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Etaantiooli fotokatalüütiline oksüdatsioon gaasi faasis toru pidevas reaktoris

Katšina, Anna; Preis, Sergei; Kallas, Juha XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 27-28

Experimental study of the influence of process variables on the performance of a horizontal belt filter

Huhtanen, Mikko; Häkkinen, Antti; Ekberg, Bjarne; **Kallas, Juha** Filtration 2011 / p. 120-125

https://www.researchgate.net/publication/289851256_Experimental_study_of_the_influence_of_process_variables_on_the_performance_of_a_horizontal_belt_filter

Experimental study on the influence of process variable on the performance of a horizontal belt filter

Häkkinen, Antti; Huhtanen, Mikko; Ekberg, Bjarne; **Kallas, Juha** FILTECH 2009, Wiesbaden, October 13-15, 2009 2009 / ? p

https://www.researchgate.net/publication/289851256_Experimental_study_of_the_influence_of_process_variables_on_the_performance_of_a_horizontal_belt_filter

Fenoole sisaldava reovee puhastamine kombineeritud protsessiga - aeroobne biooksüdatsioon koos retsirkuleeritava vee osoneerimisega

Kamenev, Inna; Lepik, Pille; **Kallas, Juha** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 41-42

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

<https://research.aalto.fi/en/publications/filterability-and-ageing-of-crystalline-potassium-sulphate-salted>

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, Bjarne; 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

From waste to value : CaCO₃ crystallization on the basis of waste oil shale ash

Velts, Olga; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik Proceedings of the Air & Waste Management Association's (A&WMA) 105th Annual Conference & Exhibition 2012 / [10] p. : ill

GAC-adsorption of 5-methylresorcinol

Viioja, Andres; Joarand, Heiki; Kallas, Juha; Palosaari, Seppo Oil shale 1994 / 2, p. 107-115: ill

Gas-liquid mass transfer in bubble columns with T-junction nozzle for gas dispersion

Laari, A.; **Kallas, Juha;** Palosaari, Seppo Chemical engineering and technology 1997 / p. 1-7

Gas-phase and aqueous photocatalytic oxidation of methylamine : the reaction pathways

Katšina, Anna; Preis, Sergei; Lluellas, German Charles; **Kallas, Juha** International journal of photoenergy 2007 / [6] p

Gas-phase degradation of CCl₄, CHCl₃ and CH₂Cl₂ over metallic Fe

Preis, Sergei; Kallas, Juha Environmental chemistry letters 2004 / 1, p. 9-13 <https://link.springer.com/article/10.1007/s10311-004-0067-6>

Gas-phase destruction of carbon tetrachloride over iron with mild process conditions

Preis, Sergei; Magrini-Bair, K.; Wolfrum, E.; **Kallas, Juha** Third International Conference on Oxidation Technologies for Water and Wastewater Treatment - Special Topic: AOP's for Recycling and Reuse : 18-22 May 2003, Goslar, Germany 2003 / p. 634-639 https://www.researchgate.net/publication/257493676_Gas-phase_degradation_of_CCl4_CHCl3_and_CH2Cl2_over_metallic_Fe

Gas-phase destruction of chlorinated methane derivatives over iron with mild process conditions

Preis, Sergei; Kallas, Juha; Magrini-Bair, K.; Wolfrum, E. International Conference EcoBalt'2002, Riga, June 7-8, 2002 2002 / p. 13

Gas-phase destruction of chlorinated methane derivatives over iron with mild process conditions

Preis, Sergei; Magrini-Bair, K.; Wolfrum, E.; **Kallas, Juha** International Conference on Ozone in Global Water Sanitation, Amsterdam, the Netherlands, October 1st to October 3rd 2002 : proceedings 2002 / p. III-5-1

Gas-phase photocatalytic and thermal oxidation of methyltertbutyl ether and tert-butyl alcohol at TiO₂ surface

Katšina, Anna; Nuria, C.; Preis, Sergei; Kallas, Juha 3rd European Meeting on Solar Chemistry and Photocatalysis :

Gas-phase photocatalytic oxidation of dimethylamine : the reaction pathway and kinetics

Katšina, Anna; Preis, Sergei; Kallas, Juha International journal of photoenergy 2007 / [4] p

Hapetustekniikoiden käyttö metsäteollisuuden vesikiertojen sulkemisessa - EKT 04

Laari, Arto; Korhonen, Susanna; **Kallas, Juha**; Tuhkanen, Tuula Cactus : Teknologiaohjelman vuosikirja 1998 1998 / s. 73-75

Hapetustekniikoiden käyttö metsäteollisuuden vesikiertojen sulkemisessa: prosessin kehitys ja mallinnus - EKT 04

Laari, Arto; Korhonen, Susanna; Tuhkanen, Tuula; **Kallas, Juha** CACTUS-teknologiaohjelma : vuosikirja 1999 1999 / s. 47-57

Hapnikkusisaldavate kütuse lisandite fotokatalüütiline oksüdatsioon vesilahustes

Kritševskaja, Marina; Katšina, Anna; Malõgina, Tatjana; Preis, Sergei; Kallas, Juha XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 65

Heitvete kombineeritud oksüdatiivne puhastamine

Pikkov, Lui; Kallas, Juha; Kamenev, Inna; Krasnova, Olga XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 132-133

Humiinainete ja ligniinide fotokatalüütiline oksüdatsioon veefaasis kinnitatud TiO₂-ga

Portjanskaja, Elina; Preis, Sergei; Kallas, Juha XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 89

Hydrogen peroxide promoted wet oxidation of concentrated debarking process waters

Verenich, Svetlana; Roosalu, Kati; **Kallas, Juha** International Conference on Ozone in Global Water Sanitation, Amsterdam, the Netherlands, October 1st to October 3rd 2002 : proceedings 2002 / p. V-5-1 - V-5-15 : ill

Implementation of the leaching models to estimate oil shale ash disposal and handling processes

Tamm, Kadriann; Uibu, Mai; Viires, Regiina; Kallas, Juha; Kuusik, Rein, keemik International Symposium "Oil shale 100 years" : Estonia, Sept. 20-23, 2016 : [abstracts] 2016 / p. 45-46

Influence of ferroud/ferric ions to the efficiency of aqueous photocatalytic oxidation of pollutants in groundwater

Klauson, Deniss; Portjanskaja, Elina; **Katšina, Anna; Preis, Sergei; Kallas, Juha** 3rd European Meeting on Solar Chemistry and Photocatalysis : Environmental Applications : book of abstracts 2004 / p. 103-104

Influence of t-butanol on multicomponent reaction kinetics and mass transfer in p-nitrophenol ozonation at low pH

Kuosa, Markku; **Kallas, Juha** Chemical engineering and processing : process intensification 2009 / 7, p. 1212-1221 : ill

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

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** Journal of chemometrics 2008 / 11/12, p. 644-652 : ill <https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.1002/cem.1161>

Instruction in environmental problems in Estonian oil shale industry : a new approach to the phenolic wastewater treatment

Munter, Rein; Kallas, Juha; Pikkov, Lui Entree '92 1992 / p. 125-132

Investigation of separation processes at Tallinn Technical University

Kallas, Juha Kemia-Kemi 1989 / p. 1064 https://www.ester.ee/record=b1201067*est

Iron removal from groundwater

Munter, Rein; Trapido, Marina; Veressinina, Jelena; Kallas, Juha; Overby, John Proceedings of the International Conference on Applications of Ozone and also on UV and Related Ozone Technologies (in conjunction with IUVA) : AT Wasser Berlin 2000 : October: 23-26 2000 / p. 599-614

Jäätumisvastaste ainete fotokatalüütiline oksüdatsioon vesilahustes ja lennukikütuse ekstra[k]tides

Kritševskaja, Marina; Malõgina, Tatjana; Preis, Sergei; Kallas, Juha XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete

referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 64-65

Jäätumisvastaste ainete fotokatalüütiline oksüdatsioon vesilahustes

Kritševskaja, Marina; Malõgina, Tatjana; **Preis, Sergei**; **Kallas, Juha** XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 58

Kaltsiumi leostumine põlevkivituhast - protsessi modelleerimine

Velts, Olga; **Kallas, Juha**; **Kuusik, Rein**, keemik XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 81

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

Kinetics and modelling of advanced oxidation of toxic and carcinogenic aromatic compounds

Kallas, Juha; **Trapido, Marina**; **Munter, Rein** International Specialised Symposium IOA 2000 "Fundamental and Engineering Concepts for Ozone Reactor Design" : Toulouse, France, March 1-3, 2000 : proceedings 2000 / p. 79-82

Kloreeritud metaani derivaatide lagundamisest gaasifaasis raudkatalüsaatoril

Preis, Sergei; **Kallas, Juha** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 104-105

Kloreeritud metaani derivaatide lagundamisest gaasifaasis raudkatalüsaatoril mõõdukatel tingimustel

Preis, Sergei; Magrini-Bair, K.; Wolfrum, E.; **Kallas, Juha** XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 104

Ksüliidiini sisaldava vee adsorptsiooni dünaamika täidiskolonnis

Reinik, Janek; **Viiraja, Andres**; **Kallas, Juha** XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 113-114

LabTop - software for experimental design, modelling and visualisation

Huhtanen, Mikko; Häkkinen, Antti; Ekberg, Bjarne; **Kallas, Juha** NoFS-13 : proceedings of the 13th Nordic Filtration Symposium: June 10-11, 2010, Lappeenranta, Finland 2010 / p. 148-153 : ill

Landfill leachate under combined oxidation treatment

Kamenev, Inna; **Pikkov, Lui**; **Kamenev, Sven**; **Kallas, Juha** Proceedings of the 15th Ozone World Congress : London, United Kingdom, 11th - 15th September 2001 : oral presentations. Vol. I 2001 / p. 345-351 : ill

Leaching of the water-soluble calcium components of oil shale waste ash = Kaltsiumiühendite leostumine põlevkivituha vesisüsteemides

Tamm, Kadriann 2016 https://www.ester.ee/record=b4561681*est

Leaching thermodynamics and kinetics of oil shale waste key components

Tamm, Kadriann; **Kallaste, Priit**; **Uibu, Mai**; **Kallas, Juha**; **Velts-Jänes, Olga**; **Kuusik, Rein**, keemik Oil shale 2016 / p. 80-99 : ill
https://artiklid.elnet.ee/record=b2760706*est <https://doi.org/10.3176/oil.2016.1.07> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Leaching thermodynamics and kinetics of oil shale waste key components

Tamm, Kadriann; **Kallaste, Priit**; **Uibu, Mai**; **Kallas, Juha**; **Kuusik, Rein**, keemik 5th International Conference on Accelerated Carbonation for Environmental and Material Engineering 2015 : New York, New York, USA, 21-24 June 2015 2015 / p. 143-153

Lignin ozonation at different pH values of water [Electronic resource]

Kuosa, Markku; **Kallas, Juha** Environmental Applications of Advanced Oxidation Processes : Chania, September 7-9, 2006 : book of abstracts 2006 / [CD-ROM]

Lipofilic wood extractives abatement from TMP circulation waters by wet oxidation

Verenich, Svetlana; Garcia Molina, V.; **Kallas, Juha** Advances in environmental research 2004 / p. 293-303
<https://www.sciencedirect.com/science/article/pii/S1093019102001041>

Long term fouling of ceramic filter media in the dewatering of hematite concentrate

Salmimies, Riina; **Kallas, Juha** Filtration 2012 / p. 219-222 : ill
https://www.researchgate.net/publication/282708363_Long_term_fouling_of_ceramic_filter_media_in_the_dewatering_of_hematite_concentrate

Magnetite particle dissolution in acidic conditions

Salmimies, Riina; **Kallas, Juha**; Häkkinen, Antti 12th European Symposium on Comminution and Classification (ESCC 2009) : Espoo, Finland, September 15-18, 2009 2009 / ? p

Mathematical models, simulation and parameter estimation for water/wastewater treatment by ozone in semicontinuous, countercurrent and cocurrent columns

Kallas, Juha; Munter, Rein; Viirja, Andres; Kõrvits, Madis 12th Ozone World Congress, May 15th to 18th, 1995, Lille, France : proceedings. Vol. 2 1995 / p. 229-240

Meenutades eluteed

Kallas, Juha Emeriti professor Juha Kallas : bibliograafia 2011 / lk. 11-27

Membrane filtration and ozone treatment of biologically treated effluents from the pulp and paper industry

Mänttari, Mika; Kuosa, Markku; **Kallas, Juha;** Nyström, Marianne Journal of membrane science 2008 / p. 112-119
<https://www.sciencedirect.com/science/article/abs/pii/S0376738807007363>

Methods for purification of xylydine-polluted water

Reinik, Janek 2003 https://www.ester.ee/record=b1833095*est

Methods of avoiding pollution of the Baltic Sea by phenols through the Purtse River

Kallas, Juha; Munter, Rein; Pikkov, Lui Environmental Protection Strategy Standardization and Control of Pollution Load on the Marine Environment : 1st International Conference, 20-24 September 1993, Tallinn, Estonia : abstracts 1993 / p. 28

Methods of avoiding pollution of the Baltic Sea by phenols through the Purtse River

Pikkov, Lui; Kallas, Juha; Munter, Rein Proceedings of the 1-st International Conference on the Environment Protection Strategy 1993 / p. 28-29

Methods of avoiding the pollution of the Baltic Sea by phenols through the Purtse River

Pikkov, Lui; Kallas, Juha; Munter, Rein Environmental Protection Strategy Standardization and Control of Pollution Load on the Marine Environment : 1st International Conference, 20-24 September 1993, Tallinn, Estonia 1994 / p. 118-125: ill

Mineral trapping of CO₂ for cement industry de-carbonization

Uibu, Mai; Usta, Mustafa Cem; Tamm, Kadriann; Žuravljova, Anastassia; Kallas, Juha; Kuusik, Rein, keemik; Triikkel, Andres 14th Greenhouse Gas Control Technologies Conference Melbourne 21-26 October 2018 (GHGT-14) 2019 / 8 p. : ill
<https://ssrn.com/abstract=3365766>

Mineral trapping of CO₂ in oil shale industry

Tamm, Kadriann; Uibu, Mai; Žuravljova, Anastassia; Usta, Mustafa Cem; Leier, Ae; Kallas, Juha; Kuusik, Rein, keemik; Triikkel, Andres <https://www.ttu.ee/asutused/polevkivi-kompetentsikeskus> 2018 / Poster <https://www.ttu.ee/asutused/polevkivi-kompetentsikeskus/konverentsid-ja-koolitused/polevkivikonverentsid/2018-6/posterettekanded/>

Mitmekomponentsete segude põhiliste füüsikalis-keemiliste omaduste arvutamise lähteandmed : metoodiline juhend

1987 https://www.ester.ee/record=b1225748*est

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>

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
<https://www.sciencedirect.com/science/article/abs/pii/S0378382009003567>

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 <https://www.sciencedirect.com/science/article/pii/S0378382009003579>

Modeling of calcium leaching from lime-consisting oil shale combustion ash

Velts, Olga; Kallas, Juha; Kuusik, Rein, keemik Third International Conference on Accelerated Carbonation for Environmental and Materials Engineering : ACEME10 : November 29 - December 1, 2010, Turku, Finland : proceedings 2010 / p. 323-326 : ill
<https://www.sciencedirect.com/science/article/abs/pii/S0378382009003579>

Modelling advanced oxidation treatment of polycyclic aromatic hydrocarbons

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

Modelling continuous process for precipitated calcium carbonate production from oil shale ash

Tamm, Kadriann; Kallas, Juha; Kuusik, Rein, keemik; Uibu, Mai Energy procedia 2017 / p. 5409-5416 : ill
<https://doi.org/10.1016/j.egypro.2017.03.1685> Conference proceedings at Scopus Article at Scopus Article at WOS

Modelling continuous process for precipitated calcium carbonate production from oil shale ash

Tamm, Kadriann; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik GHGT-13 : 13th International Conference on Greenhouse Gas Control Technologies : November 14th-18th, 2016, SwissTech Convention Center - Lausanne, Switzerland : conference programme 2016 / p. 67

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 crystal growth of KDP in a 100dm³ suspension crystallizer using combination of CFD and multiblock model

Liiri, Maret; Hatakka, Henry; **Kallas, Juha**; Aittamaa, Juhani; Alopaeus, Ville Chemical engineering research and design 2010 / 9, p. 1297-1303 : ill <https://www.sciencedirect.com/science/article/pii/S0263876209003189>

Modelling of crystal growth of KPD in a 100 dm³ crystallizer using combination of CFD and multiblock model

Liiri, Maret; Hatakka, Henry; **Kallas, Juha**; Aittamaa, Juhani; Alopaeus, Ville 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. 1859-1866

<https://ui.adsabs.harvard.edu/abs/2010CERD...88.1297L/abstract>

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

Modelling ozone mass transfer and reaction kinetics of ozone selfdecomposition

Kuosa, Markku; Haario, Heikki; **Kallas, Juha** Conference of International Ozone Association 2004 / p. 1.2.1-1 - 1.2.1.-11

MTBE katalüütiline hapendamise gaasi faasis. Kineetika uurimine pideva vooluga reaktoris

Preis, Sergei; Kallas, Juha XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 103

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

Multicomponent reaction kinetics for the ozonation of p-nitrophenol and its decomposition products under acidic conditions at constant pH

Kuosa, Markku; Laari, Arto; Solonen, Antti; Haario, Heikki; **Kallas, Juha** Chemical engineering science 2009 / 10, p. 2332-2342 : ill <https://www.sciencedirect.com/science/article/pii/S0009250909001213>

Multicomponent reaction models in ozonation and reduction in the number of model parameters

Kuosa, Markku; **Kallas, Juha** Journal of hazardous materials 2010 / 1/3, p. 823-832 : ill <https://pubmed.ncbi.nlm.nih.gov/20728271/>

Multicomponent water steam distillation. The tray model

Kallas, Juha; Reile, Rein Kemia-Kemi 1980 / p. 55-57 https://www.ester.ee/record=b1201067*est

A new perspective on fluorapatite dissolution in hydrochloric acid : thermodynamic calculations and experimental study
Tõnsuaadu, Kaia; Kallas, Juha; Kuusik, Rein, keemik; Hacialioglu-Erlenheim, Gizem; Trikkel, Andres Inorganics 2021 / art. 65, 11 p. : ill <https://doi.org/10.3390/inorganics9080065> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Novel treatment method for black liquor and biomass hydrolysate with partial wet oxidation

Muddassar, Hassan Raja; Melin, Kristian; Kuppa, Sarada; Koskinen, Jukka; Hurme, Markku; De Kokkonen, Daniela; Kallas, Juha Cellulose chemistry and technology 2015 / p. 347-360 : ill [https://www.cellulosechemtechnol.ro/pdf/CCT3-4\(2015\)/p.347-360.pdf](https://www.cellulosechemtechnol.ro/pdf/CCT3-4(2015)/p.347-360.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oil shale ash as a catalyst in wastewater treatment in the pulp and paper industry

Kindsigo, Merit; Kuusik, Rein, keemik; Kallas, Juha Waste management and the environment. V 2010 / p. 403-414 : ill

Oil shale ash as a source of calcium for calcium carbonate : process feasibility, mechanism and modeling = Põlevkivituhk kaltsiumkarbonaadi toormena : protsessi teostatavus, mehhanism ja modelleerimine
Velts, Olga 2011

Optimization of the performance of a filter press by statistical design of experiments and empirical modelling

Häkkinen, Antti; Huhtanen, Mikko; Ekberg, Bjarne; Kallas, Juha American Filtration and Separation Society : Valley Forge, USA, May 20-22, 2008 2008 / ? p <https://research.lut.fi/converis/portal/detail/Publication/767038>

Organics and nitrogen removal from phenolic wastewater with combined treatment

Kamenev, Inna; Viioja, Andres; Munter, Rein; Kallas, Juha Proceedings IWA Specialized Conference "Nutrient Management in Wastewater Treatment Processes and Recycle Streams" : Krakow, Poland, September 19-21, 2005 2005 / p. 1095-1099

Osoneerimise mõju reovete aeroobsele biopuhastusele

Kamenev, Inna; Pikkov, Lui; Kamenev, Sven; Kallas, Juha XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 53-54

Osoon ja Tallinna joogivee kvaliteet

Munter, Rein; Kallas, Juha Eesti teadlaste kongress, 11.-15. augustini 1996. a. Tallinnas : ettekannete kokkuvõtted 1996 / lk. 266 https://www.ester.ee/record=b1052731*est

Osoonimine ja täiustatud oksüdatsiooni protsessid - 21. sajandi veepuhastustehnoloogia

Munter, Rein; Kallas, Juha; Preis, Sergei; Trapido, Marina Eesti Vabariigi teaduspreemiad 2001 2001 / lk. 36-44

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 AOP for treatment of the wastewater from oil shale and pulp and paper industries

Munter, Rein; Kallas, Juha; Pikkov, Lui; Preis, Sergei; Kamenev, Sven Proceedings 11th Ozone World Congress, San Francisco, 1993. Vol. 1 1993 / p. 38-53

Ozonation and AOP parameter estimation from countercurrent film absorber data

Kallas, Juha; Huuskonen, M.; Kamenev, Sven; Munter, Rein; Viioja, Andres Ozone : science & engineering 1995 / 5, p. 527-550: ill

Ozonation and AOPs for oil shale industry's wastewater treatment : an overview

Munter, Rein; Trapido, Marina; Kallas, Juha; Kamenev, Sven; Preis, Sergei; Viioja, Andres; Kamenev, Inna; Järvik, Oliver; Kulik, Niina; Veressinina, Jelena Ozone news 2009 / 4, p. 17-22

Ozonation and AOPs for oil shale industry's wastewater treatment : an overview

Munter, Rein; Trapido, Marina; Kallas, Juha; Kamenev, Sven; Preis, Sergei; Viioja, Andres; Kamenev, Inna; Järvik, Oliver; Kulik, Niina; Veressinina, Jelena Executive summaries : 5th International Conference. 10th IOA-EA3G Berlin Conference on Oxidation Technologies for Water and Wastewater Treatment : Berlin, Germany, March 30 - April 2, 2009 2009 / p. 14/PC25(1-8)

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

Ozonation and the Fenton reagent for the degradation of nitroaromatic compounds

Goi, Anna; Trapido, Marina; Veressinina, Jelena; Kallas, Juha; Munter, Rein International Conference on Ozone in Global Water Sanitation, Amsterdam, the Netherlands, October 1st to October 3rd 2002 : proceedings 2002 / p. IV-2-1 - IV-2-16

Ozonation and wet oxidation in the treatment of thermomechanical pulp (TMP) circulation waters

Laari, A.; Korhonen, Susanna; Tuhkanen, Tuula; Verenich, Svetlana; Kallas, Juha Water science and technology 1999 / 11/12, p. 51-58

Ozonation and wet oxidation in the treatment of TMP circulation waters

Laari, Arto; Korhonen, Susanna; Tuhkanen, Tuula; Kallas, Juha The 6th IAWQ Symposium on Forest Industry Wastewaters, June 6-10, 1999, Tampere, Finland : final programme and symposium pre-prints 1999 / p. 69-76: ill

<https://www.sciencedirect.com/science/article/abs/pii/S0273122399007003>

Ozonation in paper mill water reuse: experimental results and mathematical modelling

Laari, Arto; Junttila, H.; Edelman, K.; Kallas, Juha; Kamenev, Sven International Regional Conference 23-25 September 1998 : Ozonation and AOPs in Water Treatment Applications and Research : proceedings 1998 / p. 37.1-37.12: ill

Ozonation of lignin aqueous solutions

Kamenev, Inna; Velts, Olga; Viirja, Andres; Häkkinen, Antti; Kallas, Juha Executive summaries : 5th International Conference. 10th IOA-EA3G Berlin Conference on Oxidation Technologies for Water and Wastewater Treatment : Berlin, Germany, March 30 - April 2, 2009 2009 / p. 39-40/PC223(1-8)

Ozonation of p-nitrophenol at different pH values of water and the influence of radicals at acidic conditions

Kuosa, Markku; Kallas, Juha; Häkkinen, Antti Journal of environmental chemical engineering 2015 / p. 325-332 : ill

<http://dx.doi.org/10.1016/j.jece.2014.10.015>

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

Ozone mass transfer and selfdecomposition in bubble column

Kuosa, Markku; Laari, A.; Kallas, Juha International Conference on Ozone in Global Water Sanitation, Amsterdam, the Netherlands, October 1st to October 3rd 2002 : proceedings 2002 / p. I-1-1 - I-1-16 : ill

Ozone-based treatments of process waters and effluents in the pulp and paper industry

Korhonen, Susanna; Laari, Arto; Kallas, Juha; Metsärinne, Sirpa; Tuhkanen, Tuula Proceedings of the 15th Ozone World Congress : London, United Kingdom, 11th - 15th September 2001 : oral presentations. Vol. II 2001 / p. 293-305 : ill

Oxalic acid regeneration of ceramic filter medium used in the dewatering of iron ore : research article

Salmimies, Riina; Kallas, Juha; Ekberg, Bjarne; Häkkinen, Antti International scholarly research network (ISRN) : chemical engineering 2012 / Article ID 921873 [6] p. : ill <https://onlinelibrary.wiley.com/doi/10.5402/2012/921873>

Oxidation by-products in photocatalytical treatment of phenols and aromatic aminocompounds

Preis, Sergei; Kritševskaja, Marina; Terentjeva, Jelena; Kallas, Juha 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. 72

Oxidative purification of wastewaters containing phenolic compounds from oil shale treatment

Preis, Sergei; Kamenev, Sven; Kallas, Juha Environmental technology 1994 / p. 135-144 : ill

<https://doi.org/10.1080/09593339409385413>

Paberitööstuse reovee puhastamine kombineeritud protsessiga - aeroobne biooksüdatsioon koos retsirkuleeriva vee osoneerimisega

Kamenev, Inna; Vaks, Ursula; Roosalu, Kati; Kallas, Juha XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 39-40

Parameter estimation and sensitivity analysis of lumped kinetic models for wet oxidation of concentrated wastewaters

Verenich, Svetlana; Laari, Arto; Kallas, Juha Industrial and engineering chemistry research 2003 / 21, p. 5091-5098 : ill

<https://pubs.acs.org/doi/10.1021/ie030134w>

Photocatalytic oxidation of fuel oxygenated additives in aqueous solutions

Kritševskaja, Marina; Katšina, Anna; Malõgina, Tatjana; Preis, Sergei; Kallas, Juha International journal of photoenergy 2003 / 2, p. 81-86

Photocatalytic oxidation of fuel oxygenated additives in aqueous solutions

Kritševskaja, Marina; Katšina, Anna; Malõgina, Tatjana; Preis, Sergei; Kallas, Juha International Conference EcoBalt'2002, Riga,

Photocatalytic oxidation of fuel oxygenated additives in aqueous solutions

Kritševskaja, Marina; Katšina, Anna; Malõgina, Tatjana; **Preis, Sergei**; **Kallas, Juha** International Conference on Ozone in Global Water Sanitation, Amsterdam, the Netherlands, October 1st to October 3rd 2002 : proceedings 2002 / p. V-3-1

Photocatalytic oxidation of fuel oxygenated additives in aqueous solutions

Kritševskaja, Marina; Katšina, Anna; Malõgina, Tatjana; **Preis, Sergei**; **Kallas, Juha** 2[nd] European Meeting on: "Solar-Chemistry and Photocatalysis : Environmental Applications", Saint-Avold (France), May 29-31, 2002 : book of abstracts 2002 / p. O38

Photocatalytic oxidation of humic substances with TiO₂-coated glass micro-spheres

Portjanskaja, Elina; **Kritševskaja, Marina**; **Preis, Sergei**; **Kallas, Juha** Environmental chemistry letters 2004 / 3, p. 123-127

Photocatalytical oxidation of phenolic compounds in wastewater treatment

Preis, Sergei; **Kallas, Juha** International Workshop on Pollution Prevention and Waste Minimization, 23-24 May, 1995, Lappeenranta, Finland 1995 / p. 43-45: ill

Physico-chemical methods for rocket fuel polluted groundwater treatment

Kallas, Juha; Reinik, Janek; **Jakobsson, Kaj**; **Kirso, Uue** 4th European Meeting on Environmental Chemistry : Plymouth, England, 2003 : book of abstracts 2003 / p. 187

Poolperioodse osoneerimise mudelid

Viioja, Andres; **Kamenev, Inna**; **Kallas, Juha** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 134

Possibilities of production of active carbon from biological sludge

Pikkov, Lui; **Kallas, Juha**; **Rikmann, Ergo** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 117

Post-treatment of pulp and industry wastewaters using oxidation and adsorption processes

Kallas, Juha; **Munter, Rein** Water science technology 1994 / 5/6, p. 259-272: ill

Posttreatment of pulp and paper industry wastewaters using oxidation and adsorption processes

Munter, Rein; **Kallas, Juha** Proceedings of the 4-th TAWO Symposium on Forest Industry Wastewaters, June 8-11, 1993, Tampere, Finland 1993 / p. 15-16

Proceedings of the Estonian Academy of Sciences. Chemistry

1995 http://www.ester.ee/record=b1072099*est

Programmvarustusest õppetöös keemiatööstuse protsesside ja aparatuuride erialal

Reile, Rein; **Kallas, Juha** Arvutite ja tehniliste vahendite kasutamine õppetöös : TPI 50. aastapäevale pühendatud teaduslik-metoodilise konverentsi, 26.-27. märtsil : ettekannete teesid 1986 / lk. 57-59 : ill https://www.ester.ee/record=b1206593*est

Prospects in waste oil shale ash sustainable valorization

Velts, Olga; **Uibu, Mai**; **Kallas, Juha**; **Kuusik, Rein**, **keemik** World Academy of Science, Engineering and Technology 2011 / p. 451-455 : ill

Pulsed corona discharge : the role of ozone and hydroxyl radical in aqueous pollutant oxidaton

Preis, Sergei; Panorel, I.; Kornev, I.; Hatakka, Henry; **Kallas, Juha** 6th International Water Association Specialist Conference : Oxidation Technologies for Water and Wastewater Treatment, Goslar, Germany, May 6-9 2012
https://www.researchgate.net/publication/258054814_Pulsed_corona_discharge_The_role_of_Ozone_and_hydroxyl_radical_in_aqueous_pollutants_oxidation

Pulsed corona discharge : the role of ozone and hydroxyl radical in aqueous pollutants oxidation

Preis, Sergei; Panorel, I.; Kornev, I.; Hatakka, Henry; **Kallas, Juha** Water science & technology Water science and technology 2013 / p. 1536-1542 <https://doi.org/10.2166/wst.2013.399>

Purification of phenolic wastewater using aerobic bio-oxidation combined with activated carbon treatment and ozonation

Järvik, Oliver; **Kamenev, Inna**; **Viioja, Andres**; **Kallas, Juha** Ozone : science & engineering 2010 / 6, p. 417-423 : ill

Purification of phenolic wastewater using aerobic bio-oxidation combined with activated carbon treatment and ozonation

Järvik, Oliver; **Kamenev, Inna**; **Viioja, Andres**; **Kallas, Juha** Ozone & Related Oxidants in : Advanced Treatment of Water for Human Health and Environment Protection : IOA International Conference Brussels, Belgium, May 15-16, 2008 2008 / p. 1.2-1 - 1.2-10

Purification of pulp and paper mill wastewater - aerobic bio-oxidation with ozonation in re-circulation system

Kamenev, Inna; Roosalu, Kati; Vaks, Ursula; Viirja, Andres; Kallas, Juha International Conference on Ozone in Global Water Sanitation, Amsterdam, the Netherlands, October 1st to October 3rd 2002 : proceedings 2002 / p. IV-6-1 - IV-6-18 : ill

Põhjavett saastavate ainete fotokatalüütiline oksüdatsioon

Klauson, Deniss; **Portjanskaja, Elina; Katšina, Anna; Kritševskaja, Marina; Preis, Sergei; Kallas, Juha** Keskkonnatehnika 2006 / 3, lk. 15-17 https://artiklid.elnet.ee/record=b1019081*est

Raketikütusega reostatud Keila-Joa põhjavee keemiline puhastamine

Reinik, Janek; Kallas, Juha Keskkonnatehnika 2004 / 4, lk. 8-9 https://artiklid.elnet.ee/record=b1016327*est

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

Rasvade desodoreerimine vaakumkelmekolonnis : magistritöö

Rüütman, Tiia 1992 https://www.ester.ee/record=b2632269*est

Rauaioonide mõju 2-etoksüetanooli fotokatalüütilisele oksüdatsioonile vesifaasis

Klauson, Deniss; **Portjanskaja, Elina; Kritševskaja, Marina; Katšina, Anna; Preis, Sergei; Kallas, Juha** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 42

Regeneration of ceramic filter media used in dewatering of iron ore

Salmimies, Riina; **Kallas, Juha; Ekberg, Bjarne; Häkkinen, Antti** Proceedings of the 14th Nordic Filtration Symposium : Aalborg, Denmark, 30-31 August 2012 2012

Rein Kuusik 70

Kallas, Juha Mente et Manu 2011 / lk. 6 : portr https://www.ester.ee/record=b1242496*est

Reovee puhastamine aeroobse biooksidatsiooniga kombineeritud aktiivsöetötlusega ja osoonimisega

Järvik, Oliver; Kamenev, Inna; Kallas, Juha XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 25-26

Response to the comment on "Wet oxidation lumped kinetic model for wastewater organic burden biodegradability prediction"

Verenich, Svetlana; **Kallas, Juha** Environmental science and technology 2003 / 6, p. 1227

Samiiniga reostatud põhjavee puhastamine granuleeritud aktiivsöega

Reinik, Janek; Viirja, Andres; Kallas, Juha; Munter, Rein; Verenich, Svetlana; Preis, Sergei XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 122-123

Scale growth in the dewatering of iron ore

Salmimies, Riina; **Kallas, Juha; Ekberg, Bjarne; Häkkinen, Antti** International journal of mining engineering and mineral processing 2012 / p. 69-72 : ill <http://article.sapub.org/10.5923.j.mining.20120102.08.html>

Selective photocatalytic oxidation of steroid estrogens in presence of saccharose and ethanol as co-pollutants

Karpova, Tatjana; **Preis, Sergei; Kallas, Juha; Barros Torres, Adelia Luciana** Environmental chemistry letters 2007 / 4, p. 219-224

Selective photocatalytic oxidation of steroid estrogens in the presence of copollutants in the sanitary fraction of domestic sewage

Karpova, Tatjana; **Preis, Sergei; Kallas, Juha** International journal of photoenergy 2007 / [8] p

Selective photocatalytic oxidation of steroid estrogens in water treatment : urea as co-pollutant

Karpova, Tatjana; **Preis, Sergei; Kallas, Juha** Journal of hazardous materials 2007 / 3, p. 465-471 : ill

Selective removal of lipophilic wood extractives from paper mill water circulations by ozonating

Laari, Arto; Korhonen, Susanna; Tuhkanen, Tuula; **Kallas, Juha** Ozone : science and engineering 2000 / 6, p. 585-605

Simulation and parameter estimation of ozonation column models

Kallas, Juha; Munter, Rein; Viirja, Andres; Kõrvits, Madis Acta chimica hungarica 1995 / 5, Models in chemistry, p. 807-829: ill

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

Software for improving the efficiency of test filtration tasks

Häkkinen, Antti; Huhtanen, Mikko; Ekberg, Bjarne; **Kallas, Juha** 22nd Annual American Filtration & Separations Society Conference : Bloomington, MN, May 4-7, 2009 2009 / ? p

Software for statistical design of experiments and empirical modelling of cake filtration

Huhtanen, Mikko; **Kallas, Juha** Filtration 2012 / p. 38-49 : ill <https://research.fi/en/results/publication/0246043512>

Soome fond toetab ka TTÜ teadlaste uurimistööd : [Nesslingi fondi esindajate ja TTÜ keemiatehnika instituudi teadurite kohtumisest]

Kallas, Juha Mente et Manu 2001 / 29. mai, lk. 3 : fot https://www.ester.ee/record=b1242496*est

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

Qu, Haiyan; Kohonen, Jarno; 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

Study on parameters affecting belt filtration of a metal precipitate suspension

Hirvisaari, S.; Ekberg, Bjarne; Rautanen, A.; Storbacka, S.; Häkkinen, Antti; **Kallas, Juha** Proceedings of the 10th World Filtration Congress : Leipzig, Germany, April 14-18. 1 2008 / p. I-625 - I-629

Süsiniktetrakloriidi lagundamisest rauasulamitel mõdukates katsetingimustes

Preis, Sergei; Magrini, K.; Wolfrum, E.; **Bankier, Siret**; **Kallas, Juha** XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 116-117

Teaduspreemia tehnikateaduste alal tööde tsükli "Täiustatud oksüdatsiooni protsessid loodusvee varude kaitseks ja vee säästvaks kasutamiseks" eest : Rein Munter (kollektiivi juht), Juha Kallas, Sergei Preis, Marina Trapido

Munter, Rein; Kallas, Juha; Preis, Sergei; Trapido, Marina Eesti Vabariigi teaduspreemiad 2001 2001 / lk. 34-35 : portr

Tehnoloogilist skeemi kirjeldavate võrrandite koostamine ja analüüs : metoodiline juhend

1987 https://www.ester.ee/record=b1225753*est

The effect of hydrodynamic and operational parameters on the deactivation kinetics of microbes in paper machine circulation water by ozonation

Laari, Arto; Korhonen, Susanna; Tuhkanen, Tuula; **Kallas, Juha** Proceedings of the 15th Ozone World Congress : London, United Kingdom, 11th - 15th September 2001 : oral presentations. Vol. I 2001 / p. 438-453 : ill

The influence of ferrous/ferric ions on the efficiency of photocatalytic oxidation of pollutants in groundwater

Klauson, Deniss; **Portjanskaja, Elina; Katšina, Anna; Kritševskaja, Marina; Preis, Sergei; Kallas, Juha** Environmental technology 2005 / 6, p. 653-662

The influence of iron ions on the efficiency of aqueous photocatalytic oxidation of organic pollutants

Klauson, Deniss; **Portjanskaja, Elina; Kritševskaja, Marina; Katšina, Anna; Preis, Sergei; Kallas, Juha** 6th European Meeting Environmental Chemistry : December 6-10, 2005, Belgrade, Serbia and Montenegro 2005 / p. 230

The lumped parameter approach to the unit operation models

Kallas, Juha; Reile, Rein Computer applications in the analysis of chemical data and plants : proceedings of the symposium Chemdata 77, 9th and 10th June, 1977 Helsinki-Espoo, Finland 1977 / p. 60-68

The multicomponent water steam distillation. The tray model

Kallas, Juha; Reile, Rein Kemia-Kemi 1979 / p. 611-615 https://www.ester.ee/record=b1201067*est

The optimisation of multistage recycle ultrafiltration and reverse osmosis processes : an application for wastewater treatment

Niemi, H.; Palosaari, Seppo; **Kallas, Juha** Filtration 2003 / 2, p. 49-54

The scaling and regeneration of the ceramic filter medium used in the dewatering of a magnetite concentrate

Salmimies, Riina; **Kallas, Juha** International journal of mineral processing 2013 / p. 21-26 : ill

<https://doi.org/10.1016/j.minpro.2012.12.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The solubility of two magnetite powders in oxalic acid : applicability of empirical modelling

Salmimies, Riina; Huhtanen, Mikko; **Kallas, Juha**; Häkkinen, Antti Journal of powder technology 2013 / p. 1-7 : ill

The sulfur intermediate oxidation forms in oil shale ash suspension

Tamm, Kadriann; Kuusik, Rein, keemik; Uibu, Mai; Kallas, Juha; Priks, Hans TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" 2013 / [1] p

Thermodynamic and kinetic study of CaS in aqueous systems

Tamm, Kadriann; Uibu, Mai; Kallas, Juha; Kallaste, Priit; Velts-Jänes, Olga; Kuusik, Rein, keemik Fuel processing technology 2016 / p. 242-249 : ill <https://doi.org/10.1016/j.fuproc.2015.10.029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

[Article at WOS](#)

Transformations of sulfides during aqueous carbonation of oil shale ash

Tamm, Kadriann; Kuusik, Rein, keemik; Uibu, Mai; Kallas, Juha GHGT-11 Proceedings of the 11th International Conference on Greenhouse Gas Control Technologies, 18-22 November 2012, Kyoto, Japan 2013 / p. 5905-5912 : ill

<https://doi.org/10.1016/j.egypro.2013.06.516> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Transformations of sulfur compounds in oil shale ash suspension

Tamm, Kadriann; Kuusik, Rein, keemik; Uibu, Mai; Kallas, Juha Waste management and the environment VI 2012 / p. 25-35 : ill

<https://www.witpress.com/eliibrary/wit-transactions-on-ecology-and-the-environment/163/23681>

Treatment of landfill leachates: aerobic biooxidation and post-ozonation

Kamenev, Inna; Pikkov, Lui; Kallas, Juha Proceedings of the Estonian Academy of Sciences. Chemistry 2002 / 2, p. 118-125

Treatment of phenolic and aromatic amino compounds in polluted waters by photocatalytical oxidation

Preis, Sergei; Kritševskaja, Marina; Terentjeva, Jelena; Moiseev, Anna; Kallas, Juha Journal advanced oxidation technology

2002 / 1, p. 77-84 : ill <https://www.degruyter.com/document/doi/10.1515/jaots-2002-0110/html>

Treatment of samine polluted groundwater by means of granulated activated carbon in a packed bed adsorber

Reinik, Janek; Kallas, Juha 3rd International Conference of PhD Students : Engineering Sciences : University of Miskolc, Hungary, 13-19 August 2001. Vol. I 2001 / p. 387-392 : ill

Tselluloosi- ja põlevkivitööstuse keskkonnakaitse aktuaalseid probleeme

Kallas, Juha; Pikkov, Lui XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 39-41

Tuhamäed kui keskkonna polüaromaatsete süsivesinikega ja fenoolidega reostajad

Trapido, Marina; **Munter, Rein; Kallas, Juha** Kaasaegse ökoloogia probleemid. Alalhoidlik areng ja looduskeskne elulaad : Eesti VI ökoloogiakonverentsi lühiaartiklid, Tartu, 24.-26. aprill 1994 1994 / lk. 203-205

Täiustatud oksüdatsiooniprotsessid põlevkivitööstuse heitvete eel- ja järeltöötlemisel

Kamenev, Sven; Preis, Sergei; Kallas, Juha; Munter, Rein XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 41-43

Using of ozone in high quality drinking water production

Munter, Rein; Kamenev, Sven; Kallas, Juha; Maripuu, Lea US-Baltic Workshop : Environmental Chemistry, June 11-15, 1997, Palanga, Lithuania : proceedings 1997 / p. 35-40

Using of ozone in high quality drinking water production

Munter, Rein; Kamenev, Sven; Kallas, Juha; Maripuu, Lea Critical reviews in analytical chemistry 1998 / Issue 2 : Special Issue : the proceedings of the National Science Foundation-Funded Workshop on Environmental chemistry - Baltic Republics, p. 81-86

Utilization of oil shale ash to prepare PCC : leachability dynamics and equilibrium in the ash-water system

Velts, Olga; Uibu, Mai; Rudjak, Irina; Kallas, Juha; Kuusik, Rein, keemik Energy procedia 2009 / p. 4843-4850 : ill

<https://www.sciencedirect.com/science/article/pii/S1876610209009552>

Utilization of oil shale combustion wastes for PCC production : quantifying the kinetics of Ca(OH)₂ and CaSO₄·2H₂O

dissolution in aqueous systems

Uibu, Mai; Tamm, Kadriann; Velts-Jänes, Olga; Kallaste, Priit; Kuusik, Rein, keemik; Kallas, Juha Fuel processing technology 2015 / p. 156-164 : ill <https://doi.org/10.1016/j.fuproc.2015.09.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Utilization of statistical design of experiment for improving the efficiency of test filtration tasks

Häkkinen, Antti; Huhtanen, Mikko; Ekberg, Bjarne; **Kallas, Juha** Proceedings of the 10th World Filtration Congress : Leipzig, Germany, April 14-18. 1 2008 / p. I-180 - I-184

Waste oil shale ash as a novel source of calcium for precipitated calcium carbonate : carbonation mechanism, modeling, and product characterization

Velts, Olga; Uibu, Mai; Kallas, Juha; Kuusik, Rein, keemik Journal of hazardous materials 2011 / p. 139-146 : 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

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

Wet oxidation for the treatment of TMP concentrated paper mill waters. Kinetics of the reaction

Garcia-Molina, V.; Verenich, Svetlana; **Kallas, Juha** ECCE : 4th European Congress of Chemical Engineering : Granada, Spain, 2003 : conference proceedings. Topic 4 2003 / p. P-4.3-089

Wet oxidation of concentrated wastewaters : the kinetic modelling

Verenich, Svetlana; **Kallas, Juha** Oxidation Technologies for Water and Wastewater Treatment : 2nd International Conference 2000 / p. 163

Wet oxidation of concentrated wastewaters of paper mills for water cycle closing

Verenich, Svetlana; Laari, A.; **Kallas, Juha** Waste management 2000 / p. 287-293 : ill

Wet oxidation of debarking water : changes in lignin content and biodegradability

Kindsigo, Merit; **Kallas, Juha** Environmental chemistry letters 2009 / 2, p. 121-126

Wet oxidation of paper mill evaporation concentrates

Roosalu, Kati; Verenich, Svetlana; **Kallas, Juha** International conference EcoBalt 2003 : Riga, Latvia, 2003 : book of abstracts. Volume 1 2003 / p. I-27 - I-28 <https://lutpub.lut.fi/handle/10024/35063?show=full>

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>

Väävliühendid põlevkivituha märgkarboniseerimisel

Tamm, Kadriann; Uibu, Mai; Kuusik, Rein, keemik; Kallas, Juha XXXIII Eesti Keemiapäevad : teaduskonverentsi teesid 2013 / lk. 78

Xylidine polluted groundwater treatment by means of advanced oxidation processes

Kallas, Juha; Reinik, Janek; Jakobsson, Kaj Third International Conference on Oxidation Technologies for Water and Wastewater Treatment - Special Topic: AOP's for Recycling and Reuse : 18-22 May 2003, Goslar, Germany 2003 / p. 364-367

Xylidine-polluted groundwater purification : adsorption experiments and breakthrough calculations

Reinik, Janek; Viiraja, Andres; Kallas, Juha Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / 4, p. 205-216

Xylidine-polluted groundwater purification. Wet oxidation - wet air oxidation using granulated active carbon

Kallas, Juha; Reinik, Janek Scientific proceedings of Riga Technical University. Series: Material Science and Applied Chemistry 2002 / p. 208-215

Xylidine-polluted groundwater purification. Ozonation and catalytic wet oxidation

Reinik, Janek; Kallas, Juha Proceedings of the Estonian Academy of Sciences. Chemistry 2004 / 3, p. 97-115 : ill

Алгоритм генерирования моделей химико-технологических процессов

Bakalova, M.O.; Kallas, Juha Процессы и аппараты химической технологии. 2 1988 / с. 3-10

Алгоритмы расчета межфазных потоков в многокомпонентной системе ПАР-жидкость

Joarand, Heiki; Kallas, Juha XXV студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 21-23 апреля 1981 года : тезисы докладов. Том 2, Автоматика. Энергетика. Механика. Химия 1981 / с. 187 https://www.ester.ee/record=b1322629*est

Влияние поперечных потоков на коэффициент массоотдачи

Kallas, Juha; Siirde, Enno Известия высших учебных заведений. Химия и химическая технология 1983 / с. 763-765
https://www.ester.ee/record=b2027682*est

Влияние поперечных потоков на фактор Льюиса

Kallas, Juha Журнал прикладной химии 1983 / с. 803-806 : ил https://www.ester.ee/record=b1182398*est

Гидроабразивная износостойкость твердых сплавов

Valdma, Leo; Kallas, Juha; Pirso, Jüri; Kübarsepp, Jakob Трение, износ и смазочные материалы. Т. 2, Смазочное действие и смазочные материалы. Триботехническое материаловедение. Самоорганизующиеся процессы фрикционного контакта : труды международной научной конференции (Ташкент, 22-26 мая 1985 г.) : тезисы секционных докладов 1985 / с. 249-253
https://www.ester.ee/record=b2770097*est

Использование метода UNIFAC при нахождении фазовых равновесий в многокомпонентных системах

Kallas, Juha; Viiraja, Andres; Siirde, Enno Журнал прикладной химии 1978 / с. 2471-2475 : ил, табл
https://www.ester.ee/record=b1182398*est

Исследование дистилляции многокомпонентных смесей в присутствии перегретого водяного пара

Kallas, Juha; Reile, Rein; Siirde, Enno Известия высших учебных заведений. Химия и химическая технология 1980 / с. 910-914 https://www.ester.ee/record=b2027682*est

Исследование дистилляции многокомпонентных смесей с перегретым водяным паром

Reile, Rein; Kallas, Juha; Siirde, Enno Журнал прикладной химии 1978 / с. 2397 https://www.ester.ee/record=b1182398*est

Исследование кинетики реакции поликонденсации резорцина с формальдегидом

Kallas, Juha; Luikmel, A.; Luikmel, J.; Pakosta, M.; Port, M.; Jalgma, V.; Schmidt, Ludvig X студенческая научно-техническая конференция высших учебных заведений Прибалтики, Белорусской ССР и Калининградской области : аннотации научных работ 1964 / с. 168 https://www.ester.ee/record=b1749611*est <http://www.digar.ee/id/nlib-digar:376945>

Исследование процесса непрерывной дистилляции в аппарате пленочного типа : автореферат ... кандидата технических наук (05.347)

Kallas, Juha 1972 http://www.ester.ee/record=b1353496*est

Исследование процесса непрерывной дистилляции в аппарате пленочного типа : диссертация ... кандидата технических наук : (05.347 - процессы и аппараты химической технологии)

Kallas, Juha 1971 http://www.ester.ee/record=b2266099*est

Исследование точности методов для расчета многокомпонентного равновесия между жидкостью и паром

Uibo, Erik; Kallas, Juha XX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР : тезисы докладов. Часть 2 1974 / с. 371-372 https://www.ester.ee/record=b1306141*est

Кафедре процессов и аппаратов химической промышленности - 70 лет

Siirde, Enno; Kallas, Juha Tallinna Tehnikaülikooli Toimetised 1990 / lk. 3-11

Массо- и теплоперенос при дистилляции многокомпонентных смесей с насыщенным водяным паром

Viiraja, Andres; Kallas, Juha; Siirde, Enno Журнал прикладной химии 1980 / с. 2262-2266 : ил
https://www.ester.ee/record=b1182398*est

Массообмен между газообразной и жидкой фазами бинарных систем

Kallas, Juha; Siirde, Enno Тепло- и массоперенос. Т. 4 1972 / с. 38-42

Математическая модель гидродинамики реактора кипящего слоя

Rebane, Jüri; Kallas, Juha Труды по электротехнике и автоматике : сборник статей. 12 1974 / с. 137-143 : илл
https://www.ester.ee/record=b2190668*est <https://digikogu.taltech.ee/et/Item/57b94a1f-6879-4443-b6f2-322fd7e53d89>

Математическая модель дистилляции в присутствии инертного компонента

Reile, Rein; Kallas, Juha; Siirde, Enno Процессы и аппараты химической технологии и технология неорганических веществ. 8 1977 / с. 3-8 : илл https://www.ester.ee/record=b1531858*est <https://digikogu.taltech.ee/et/Item/97286e9a-e68e-4dd6-9aae-92786dbf43a7>

Математическая модель интегрального контакта при дистилляции с насыщенным водяным паром многокомпонентной смеси

Reile, Rein; Kallas, Juha; Siirde, Enno Процессы и аппараты химической технологии и технология неорганических веществ. 7 1976 / с. 39-44 : илл https://www.ester.ee/record=b1351417*est <https://digikogu.taltech.ee/et/Item/d16fcc56-ac67-4884-ba2f-94db4ecf04cc>

Математическая модель локальных потоков при дистилляции в присутствии инертного компонента

Reile, Rein; Kallas, Juha; Siirde, Enno Процессы и аппараты химической технологии и технология неорганических веществ. 7 1976 / с. 45-50 https://www.ester.ee/record=b1351417*est <https://digikogu.taltech.ee/et/Item/d16fcc56-ac67-4884-ba2f-94db4ecf04cc>

Математическая модель процесса дезодорирования масла или массы какао в роторно-пленочном испарителе

Rüütman, Tiia; Joarand, Heiki; Kallas, Juha Tallinna Tehnikaülikooli Toimetised 1990 / lk. 41-52: ill

Математическая модель процесса полукоксования сланца в газогенераторе поперечного потока

Aarna, Olav; Kallas, Juha; Kracht, Wilhelm Горючие сланцы : информационная серия I 1973 / с. 18-25 : ил https://www.ester.ee/record=b1889669*est

Математическое моделирование многофазных химико-технологических систем

Kallas, Juha Процессы и аппараты химической технологии и технология неорганических веществ. 8 1977 / с. 15-19 : илл https://www.ester.ee/record=b1531858*est <https://digikogu.taltech.ee/et/Item/97286e9a-e68e-4dd6-9aae-92786dbf43a7>

Математическое моделирование химико-технологических систем

Kallas, Juha Труды по электротехнике и автоматике : сборник статей. 13 1975 / с. 173-176 https://www.ester.ee/record=b2190710*est <https://digikogu.taltech.ee/et/Item/ffbd63ed-06d6-4bbb-9468-118f743cc87f>

Машинный расчет дистилляции с перегретым водяным паром

Reile, Rein; Kallas, Juha; Siirde, Enno Процессы и аппараты химической технологии и технология неорганических веществ. 8 1977 / с. 9-14 : илл https://www.ester.ee/record=b1531858*est <https://digikogu.taltech.ee/et/Item/97286e9a-e68e-4dd6-9aae-92786dbf43a7>

Машинный расчет физико-химических свойств жидких и газообразных углеводородных смесей

Aarna, Olav; Kallas, Juha; Uibo, Erik Тезисы докладов Всесоюзного совещания по теории и практике ректификации нефтяных смесей, Уфа, 1975 1975 / с. [142-145]

Метод расчета межфазных потоков при сопряженной тепло- и массопередаче в многокомпонентной смеси

Joarand, Heiki; Kallas, Juha Гидродинамика и явления переноса в двухфазных дисперсных системах 1984 / с. 36-42 https://www.ester.ee/record=b3804295*est

Метод расчета непрерывного совмещенного реакционно-ректификационного процесса

Joarand, Heiki; Kallas, Juha Тезисы докладов всесоюзной научной конференции ПАХТ-85 1985 / с. 192-194

Метод расчета периодической дистилляции многокомпонентной смеси

Kurvits, Inna; Kallas, Juha Журнал прикладной химии 1984 / с. 917-919 : ил https://www.ester.ee/record=b1182398*est

Метод расчета пленочной дистилляции многокомпонентных смесей

Kamenev, Inna; Kallas, Juha Процессы и аппараты химической технологии. 1 1987 / с. 64-75

Минимальная плотность орошения при однофазном пленочном течении жидкости (в отсутствии тепло- и массообмена)

Reile, Rein; Kallas, Juha; Siirde, Enno Процессы и аппараты химической технологии и технология неорганических веществ. 4 1973 / с. 33-37 : илл https://www.ester.ee/record=b1386707*est <https://digikogu.taltech.ee/et/Item/72e7c5b1-8453-41a6-9821-41853b98368d>

О математическом моделировании явлений переноса в многофазных системах

Kallas, Juha Процессы и аппараты химической технологии и технология неорганических веществ. 6 1975 / с. 27-34 https://www.ester.ee/record=b1328221*est <https://digikogu.taltech.ee/et/Item/fe4506d2-a386-4039-88aa-b211d04b97fe>

О методе Вильсона для расчета многокомпонентного равновесия между жидкостью и паром

Kallas, Juha; Uibo, Erik Процессы и аппараты химической технологии и технология неорганических веществ. 5 1974 / с. 29-35 https://www.ester.ee/record=b1531723*est <https://digikogu.taltech.ee/et/Item/438b60cb-3265-444e-adba-b3c2c222f12a>

О многокомпонентном массопереносе в неизотермических условиях

Kallas, Juha; Siirde, Enno Теоретические основы химической технологии 1980 / с. 597-600 : табл https://www.ester.ee/record=b1440229*est

О процессе простой дистилляции в пленочном аппарате

Kallas, Juha; Siirde, Enno Теоретические основы химической технологии 1974 / с. 285-287 : ил https://www.ester.ee/record=b1440229*est

О расчете диффузионного и теплового потоков при неизотермической массоотдаче

Kallas, Juha; Siirde, Enno Теоретические основы химической технологии 1982 / с. 533-534 : ил

https://www.ester.ee/record=b1440229*est

Обесфторивание фторapatита в псевдооживленном слое

Aarna, Olav; Kallas, Juha; Kracht, Wilhelm; Sidoruk, A. Процессы и аппараты химической технологии и технология

неорганических веществ. 4 1973 / с. 51-58 https://www.ester.ee/record=b1386707*est <https://digikogu.taltech.ee/et/Item/72e7c5b1-8453-41a6-9821-41853b98368d>

Обобщенный подход к моделированию аппаратов ХТС

Kallas, Juha III всесоюзная конференция "Математическое моделирование сложных химико-технологических систем" (ХХТС-

III), с 7 по 9 июня 1982 года : тезисы докладов. Часть 1 1982 / с. 7-8 : ил https://www.ester.ee/record=b1275453*est

Однокомпонентные системы

Reile, Rein; Kallas, Juha Журнал прикладной химии 1985 / с. 1970-1974 : ил., табл https://www.ester.ee/record=b1182398*est

Оптимизация процесса выделения клеточного сока при производстве картофельного крахмала

Kirt, Enno; Annus, Arno; Kallas, Juha; Kiitam, Andres; Uibo, Erik Материалы VI Всесоюзного симпозиума по современным проблемам самоочищения водоемов и регулирования качества воды, Таллин, 16-18 апреля 1979 года. IV секция, Доочистка сточных вод 1979 / с. 198-199 https://www.ester.ee/record=b1281836*est

Оптимизация процесса выделения клеточного сока при производстве картофельного крахмала : (на примере крахмального завода колхоза "Паузи" ЭССР)

Kirt, E.; Annus, Arno; Kallas, Juha; Kiitam, Andres; Uibo, Erik; Žigalov, M.S. Прогнозирование и регулирование качества воды и водоемов и исследование методов очистки природных и сточных вод 1978 / с. 73-80 : илл

https://www.ester.ee/record=b1499379*est <https://digikogu.taltech.ee/et/Item/0f942b52-ffe6-48f6-bb86-0ab5235b554c>

Практические работы по курсу "Химические процессы и реакторы"

Kallas, Juha; Reile, Rein 1985 https://www.ester.ee/record=b4089657*est

Проблемы расчета ректификации расслаивающихся смесей

Reile, Rein; Kallas, Juha Тезисы докладов V Всесоюзной конференции по теории и практике ректификации 1984 / с. 94-96

Простая дистилляция в пленочных аппаратах : сообщение 1

Kallas, Juha; Siirde, Enno Процессы и аппараты химической технологии и технология неорганических веществ. 3 1972 / с. 23-

31 https://www.ester.ee/record=b1531312*est <https://digikogu.taltech.ee/et/Item/e448e56a-a020-4c7c-8723-e0214721d71b/>

Простая дистилляция в пленочных аппаратах : сообщение 2

Kallas, Juha; Siirde, Enno Процессы и аппараты химической технологии и технология неорганических веществ. 3 1972 / с. 33-

37 : илл https://www.ester.ee/record=b1531312*est <https://digikogu.taltech.ee/et/Item/e448e56a-a020-4c7c-8723-e0214721d71b/>

Простая дистилляция в пленочных аппаратах : сообщение 3

Kallas, Juha; Siirde, Enno Процессы и аппараты химической технологии и технология неорганических веществ. 3 1972 / с. 39-

43 https://www.ester.ee/record=b1531312*est <https://digikogu.taltech.ee/et/Item/e448e56a-a020-4c7c-8723-e0214721d71b/>

Процессы и аппараты химической технологии

Feldmann, Liia; Pikkov, Lui; Viirja, Andres; Roosimölder, Lembit; Munter, Rein; Sarv, Laur; Joarand, Heiki; Kallas, Juha;

Kamenev, Inna; Preis, Sergei; Siirde, Enno; Koel, Mihkel; Tearo, Jelena; Looirts, Hilja; Mikkal, Valdek; Kamenev, Sven;

Bakalova, M.O.; Orupõld, T.; Reile, Rein; Uus, Endel; Tearo, Eduard 1987 https://www.ester.ee/record=b2191192*est

Процессы и аппараты химической технологии

Feldmann, Liia; Bakalova, M.O.; Kallas, Juha; Reile, Rein; Viirja, Andres; Preis, Sergei; Munter, Rein; Siirde, Enno; Sarv,

Laur; Pikkov, Lui; Veressinina, Jelena 1988 https://www.ester.ee/record=b2191189*est

Путь приближения парожидкостной системы к термодинамическому равновесию (двухкомпонентные системы)

Reile, Rein; Kallas, Juha; Bakalova, M. Журнал прикладной химии 1986 / с. 1772-1776 : ил https://www.ester.ee/record=b1182398*est

Расчет дистилляции многокомпонентных смесей с перегретым водяным паром

Kallas, Juha; Reile, Rein; Siirde, Enno Химическая технология : научно-теоретический журнал 1981 / с. 48-50 :ил

https://www.ester.ee/record=b2158491*est

Расчет ректификации расслаивающихся смесей

Reile, Rein; Kallas, Juha Журнал прикладной химии 1983 / с. 781-786 : илл https://www.ester.ee/record=b1182398*est

Ректификация многокомпонентных смесей в токе инертного компонента

Kallas, Juha; Reile, Rein; Siirde, Enno IV Всесоюзная конференция по ректификации, Уфа, 20-22 сент. 1978 г. : тезисы докладов 1978 / с. 96-99

Система генерирования математических моделей химико-технологических процессов

Aarna, Olav; Kallas, Juha; Uibo, Erik Тезисы Первого симпозиума ИФАК/ИФИП по программному обеспечению управления процессами, Таллин, 25-28 мая 1976 года 1976 / с. 24-25 https://www.ester.ee/record=b1350858*est

Система машинного расчета физико-химических свойств

Aarna, Olav; Kallas, Juha; Uibo, Erik Процессы и аппараты химической технологии и технология неорганических веществ. 7 1976 / с. 31-37 : илл https://www.ester.ee/record=b1351417*est <https://digikogu.taltech.ee/et/Item/d16fcc56-ac67-4884-ba2f-94db4ecf04cc>

Современное состояние исследований процесса десорбции с перегретым водяным паром

Joarand, Heiki; Kamenev, Inna; Kallas, Juha; Reile, Rein; Rüttnann, Tiia Тезисы докладов III Всесоюзного совещания по проблеме "Абсорбция газов", 5-7 мая 1987 года г. Таллин. Ч. 2 1987 / с. 49-50 https://www.ester.ee/record=b2164108*est

Современное состояние теории и методов расчета дистилляции с водяным паром

Kallas, Juha; Joarand, Heiki Химическая технология : научно-теоретический журнал 1987 / с. 36-41 https://www.ester.ee/record=b2158491*est

Сопряженная тепло- и массопередача в многокомпонентной парожидкостной системе

Joarand, Heiki; Kamenev, Inna; Kallas, Juha Журнал прикладной химии 1985 / с. 450-452 : ил https://www.ester.ee/record=b1182398*est

Сопряженная тепло- и массопередача в многокомпонентной парожидкостной системе

Viioja, Andres; Joarand, Heiki; Kamenev, Inna; Reile, Rein; Kallas, Juha Современные проблемы тепло- и массообмена в химической технологии : материалы Международной школы-семинара. Ч. 1 1986 / с. 76-85 https://www.ester.ee/record=b2676985*est

Сопряженный тепло- и массоперенос в многокомпонентной среде

Kamenev, Inna; Kallas, Juha Журнал прикладной химии 1985 / с. 291-294 : ил https://www.ester.ee/record=b1182398*est

Сопряженный тепло- и массоперенос в многокомпонентных парожидкостных системах

Kurvits, Inna; Joarand, Heiki; Kallas, Juha Тезисы докладов V Всесоюзной конференции по теории и практике ректификации 1984 / с. 161-163

Теория и методы расчета дистилляции с водяным паром : автореферат ... доктора технических наук (05.17.08)

Kallas, Juha 1985 https://www.ester.ee/record=b1523569*est

Тепло- и массоотдача при дистилляции в многокомпонентных двухфазных системах, сопровождаемая гомогенной химической реакцией. Сообщ. 1

Joarand, Heiki; Kallas, Juha Процессы и аппараты химической технологии. 1 1987 / с. 39-48

Усовершенствование процесса периодической ректификации фенолов

Reile, Rein; Kallas, Juha; Bakalova, M.; Vetik, Ü. Совершенствование технологии сланцепереработки и новые направления использования сланцепродуктов : тезисы докладов Всесоюзного научно-технического совещания, Кохтла-Ярве, 25-26 мая 1988 года 1988 / с. 1 https://www.ester.ee/record=b1222419*est

Успехи в теории и расчете перегонки и реактификации в присутствии водяного пара

Kallas, Juha; Siirde, Enno; Viioja, Andres; Reile, Rein XII Менделеевский съезд по общей и прикладной химии : рефераты докладов и сообщений. №.5, Теоретические основы химической технологии. Химические проблемы металлургии. Химия и технология силикатов 1981 / с. 64-65 https://www.ester.ee/record=b2050266*est