

Acquisition of O₂ adsorption isotherms as thorough characterization of nanocrystalline titanium dioxide photocatalysts

Moiseev, Anna; **Kritševskaja, Marina; Preis, Sergei** Surfaces and interfaces 2019 / p. 44-49 : ill

<https://doi.org/10.1016/j.surf.2018.11.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Adsorbeeritud mootorikütuse hapnikurikaste lisandite fotokatalüütiline oksüdatsioon õhus

Preis, Sergei; Falconer, J. XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 106 https://www.ester.ee/record=b1761049*est

Adsorbeeritud mootorikütuse hapnikurikaste lisandite fotokatalüütiline oksüdatsioon õhus

Preis, Sergei; Falconer, J. XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 101-102

Adsorption of Cd²⁺ by an ion-imprinted thiol-functionalized polymer in competition with heavy metal ions and organic acids

Kong, Qiaoping; Xie, Binbin; **Preis, Sergei** RSC advances 2018 / p. 8950–8960 : ill <https://doi.org/10.1039/c7ra11811b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 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 (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

Advances in characteristics analysis, measurement methods and modelling of flow dynamics in airlift reactors

Zhang, Tao; Wei, Chaohai; Feng, Chunhua; **Preis, Sergei** Chemical engineering and processing : process intensification 2019 / art. 107633, 19 p. : ill <https://doi.org/10.1016/j.cep.2019.107633> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

"AK. Nädal" uuris, kuidas jõuab inimesteni puhas joogivesi

Saar, Sandra novaator.err.ee 2023 ["AK. Nädal" uuris, kuidas jõuab inimesteni puhas joogivesi](#)

Akrüülnitriili fotokatalüütiline oksüdatsioon gaasifaasis

Jõks, Svetlana; Kritševskaja, Marina; Preis, Sergei XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 37

Application of fly ash of lignite combustion in air and water purification

Nikitin, Dmitri; Bolobajev, Juri; Kritševskaja, Marina; Pilar, Lukas; Vitvarova, Monika; Preis, Sergei; Dulova, Niina Proceedings 2023 / art. 32 <https://doi.org/10.3390/proceedings2023092032>

Aqueous bromide oxidized with pulsed corona discharge

Petrošenko, Irina; Preis, Sergei Journal of electrostatics 2024 / art. 103978, 9 p. : ill <https://doi.org/10.1016/j.elstat.2024.103978> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aqueous photocatalytic oxidation of amoxicillin

Klauser, Deniss; Babkina, J.; Stepanova, Kristina; Kritševskaja, Marina; Preis, Sergei Proceedings of the 2nd European Conference on Environmental Applications of Advanced Oxidation Technologies (EAAOP-2): Nicosia, Cyprus, September 9-11, 2009 2009 / [12] p <https://www.sciencedirect.com/science/article/abs/pii/S0920586110000192>

Aqueous photocatalytic oxidation of amoxicillin

Klauser, Deniss; Babkina, J.; Stepanova, Kristina; Kritševskaja, Marina; Preis, Sergei Catalysis today 2010 / 1/2, p. 39-45

Aqueous photocatalytic oxidation of doxycycline

Klauser, Deniss; Poljakova, Alissa; Pronina, Natalja; Kritševskaja, Marina; Moiseev, Anna; Dedova, Tatjana; Preis, Sergei Journal of advanced oxidation technologies 2013 / p. 234-243 <https://doi.org/10.1515/jaots-2013-0203> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aqueous photocatalytic oxidation of doxycycline

Kritševskaja, Marina; Klauser, Deniss; Pronina, Natalja; Poljakova, Alissa; Preis, Sergei Abstracts of papers of the American Chemical Society. Vol. 245 2013 / [1] p

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 : the influence of mineral admixtures

Portjanskaja, Elina; Preis, Sergei International journal of photoenergy 2007 / [7] 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

Aqueous photocatalytic oxidation of non-biodegradable pollutants = Bioloogiliselt mittelagunevate saasteainete fotokatalüütiline oksüdatsioon vesifaasis

Klauson, Deniss 2010 <https://digi.lib.ttu.ee/i/2479> https://www.ester.ee/record=b2595245*est

Aqueous photocatalytic oxidation of oxygenated fuel additives using sulphur-doped titania

Klauson, Deniss; Preis, Sergei The 8th European Meeting on Environmental Chemistry (EMEC8) : Inverness, England, 05-08 December 2007 : book of abstracts and final programme 2007 / p. 46

Aqueous photocatalytic oxidation of prednisolone

Klauson, Deniss; Pilnik-Sudareva, Jana; Budarnaja, Olga; Kritševskaja, Marina; Kuljasova, Julia; Käkinen, Aleksandr; Juganson, Katre; Preis, Sergei Abstracts of papers of the American Chemical Society. Vol. 245 2013 / [1] p

Aqueous photocatalytic oxidation of prednisolone

Klauson, Deniss; Pilnik-Sudareva, Jana; Pronina, Natalja; Budarnaja, Olga; Kritševskaja, Marina; Käkinen, Aleksandr; Juganson, Katre; Preis, Sergei Central European journal of chemistry 2013 / p. 1620-1633 : ill <https://doi.org/10.2478/s11532-013-0290-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aqueous photocatalytic oxidation of sulfamethizole

Klauson, Deniss; Kritševskaja, Marina; Borissova, Maria; Preis, Sergei Environmental technology 2010 / 14, p. 1547-1555 : ill

Aqueous photocatalytic oxidation of sulfamethizole

Klauson, Deniss; Kritševskaja, Marina; Borissova, Maria; Preis, Sergei The 5th European Meeting on Solar Chemistry and Photocatalysis : Environmental Applications (SPEA5) : 04-08 October 2008, Palermo, Italy : book of abstracts 2008 / p. PP2.18

Aromaatsete amiinoühendite fotokatalüütilisest lagundamisest

Preis, Sergei; Kritševskaja, Marina; Hartšenko, Anna XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 110

Aromaatsete aminoühendite (samiini) fotokatalüütiline oksüdeerimine põhjaveses = Photocatalytical oxidation of aromatic aminocompounds in aquatic solutions and ground water from abandoned military base

Preis, Sergei; Kritševskaja, Marina; Hartšenko, Anna XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 151-152 https://www.ester.ee/record=b1070511*est

Autothermal Siberian pine nutshell pyrolysis maintained by exothermic reactions

Astafev, Alexander; Shanenkov, Ivan; Ibraeva, Kanipa; Tabakaev, Roman; Preis, Sergei Energies 2022 / art. 7118 <https://doi.org/10.3390/en15197118> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

BOD/COD ratio as a probing index in the O/H/O process for coking wastewater treatment

Wei, Gengrui; Wei, Tuo; Li, Zemin; Wei, Cong; Kong, Qiaopin; Guan, Xianghong; Qiu, Guanglei; Hu, Yun; Wei, Chaohai; Zhu, Shuang; Liu, Yu; Preis, Sergei Chemical Engineering Journal 2023 / art. 143257 <https://doi.org/10.1016/j.cej.2023.143257> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Characterization of ozonation processes by oxygen demand of compounds

Munter, Rein; Preis, Sergei; Siirde, Enno Proceedings of the Estonian Academy of Sciences. Chemistry 2002 / 3, p. 139-147 : ill

Chemical oxygen demand as a generalized kinetic parameter for ozonation processes of water solutions and wastewaters

Munter, Rein; Preis, Sergei; Siirde, Enno International Conference on Ozone in Global Water Sanitation, Amsterdam, the Netherlands, October 1st to October 3rd 2002 : proceedings 2002 / p. V-4-1 - V-4-17 : ill

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, May 15th to 18th, 1995, Lille, France : proceedings. Vol. 1 1995 / p. 395-406: ill

Degradation of antibiotic vancomycin by UV photolysis and pulsed corona discharge combined with extrinsic oxidants

Nikitin, Dmitri; Kaur, Balpreet; Preis, Sergei; Dulova, Niina Catalysts 2023 / art. 466, 16 p. : ill <https://doi.org/10.3390/catal13030466>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Degradation of antibiotic vancomycin by UV photolysis and pulsed corona discharge combined with extrinsic oxidants

Nikitin, Dmitri; Kaur, Balpreet; Preis, Sergei; Dulova, Niina GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 / 1 p <https://fmttk.ut.ee/programm-2023/>

Degradation of anti-inflammatory drug dexamethasone by pulsed corona discharge : The effect of peroxycompounds addition

Onga, Liina; Kattel-Salusoo, Eneliis; Preis, Sergei; Dulova, Niina Journal of environmental chemical engineering 2022 / art. 108042 <https://doi.org/10.1016/j.jece.2022.108042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Degradation of aqueous alachlor in pulsed corona discharge

Bolobajev, Juri; Gornov, Daniil; Kornev, Iakov; Preis, Sergei Journal of electrostatics 2021 / art. 103543
<https://doi.org/10.1016/j.elstat.2020.103543> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Degradation of imidazolium-based ionic liquids by pulsed corona discharge and UV photolysis assisted with extrinsic oxidants

Nikitin, Dmitri; Preis, Sergei; Dulova, Niina IOA 26th World Congress & Exhibition Milano 2023 : proceedings 2023 / p. 15.7-1-15.7-3 <https://www.ioa-ea3g.org/congress/technical-programme/information-for-authors/>

Degradation of imidazolium-based ionic liquids by UV photolysis and pulsed corona discharge : the effect of persulfates addition

Nikitin, Dmitri; Preis, Sergei; Dulova, Niina Separation and purification technology 2024 / art. 127235
<https://doi.org/10.1016/j.seppur.2024.127235>

Degradation of imidazolium-based ionic liquids by UV photolysis and pulsed corona discharge : the effect of persulfates addition

Nikitin, Dmitri; Dulova, Niina; Preis, Sergei 19th IWA leading edge conference on Water and Wastewater Technologies 2024 / 2 p.
<https://iwa-let.org/pdfviewer/degradation-of-imidazolium>

Degradation of imidazolium-based ionic liquids by UV photolysis and pulsed corona discharge combined with persulfate

Nikitin, Dmitri; Preis, Sergei; Dulova, Niina 18th International Conference on Chemistry and the Environment (ICCE 2023), June 11-15, 2023 : Book of abstracts 2023 / p. 394 <https://icce2023.com/wp-content/uploads/2023/06/Book-of-Abstracts.pdf>

Deodorization of wastewater from alkyd resin synthesis

Preis, Sergei; Hartšenko, Anna; Kritševskaja, Marina; Terentjeva, Jelena 13th International Congress of Chemical and Process Engineering : CHISA'98 : 23-28 August 1998, Praha, Czech Republic. Summaries 1, 2nd Symposium on Environmental and Safety Engineering 1998 / p. 50

Deodorization of wastewater from alkyd resin synthesis

Preis, Sergei; Hartšenko, Anna; Kritševskaja, Marina; Terentjeva, Jelena 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 57

Development of oxidation technology in water treatment : pulsed corona discharge plasma combined with peroxocompounds = Oksüdatsioonitehnoloogia arendamine veepuhastuses : peroksoühenditega kombineeritud impulss koroona elektrilahendus

Nikitin, Dmitri 2024 https://www.ester.ee/record=b5693232*est <https://doi.org/10.23658/taltech.38/2024>
<https://digikogu.taltech.ee/et/Item/9db5662a-18c4-4b91-b18c-52b55d227f0b>

Diverse and distinct bacterial community involved in a full-scale A/O1/H/O2 combination of bioreactors with simultaneous decarbonation and denitrogenation of coking wastewater

Zhu, Shuang; Deng, Jinsi; Jin, Xiaobao; Wu, Haizhen; Wei, Cong; Qiu, Guanglei; Preis, Sergei; Wei, Chaohai Environmental science and pollution research 2023 / p. 2103-2117 <https://doi.org/10.1007/s11356-022-22103-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Eelosoneerimise mõju looduslike orgaaniliste ainete biolagunemisele = The impact of pre-treatment with ozone on biodegradation of natural organic matter-case study

Rožkov, Aleksei; Strömberg, A.; Karlsson, K.; Preis, Sergei XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 175-176 https://www.ester.ee/record=b1070511*est

Effects of persulfate and hydrogen peroxide on oxidation of oxalate by pulsed corona discharge

Tikker, Priit; Dulova, Niina; Kornev, Iakov; Preis, Sergei Chemical engineering journal 2021 / art. 128586

<https://doi.org/10.1016/j.cej.2021.128586> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effects of persulfate and hydrogen peroxide on oxidation of oxalate by pulsed corona discharge treatment

Tikker, Priit; Dulova, Niina; Kornev, Iakov; Preis, Sergei GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts

2021 / O 11 http://fmdtk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Electrolytic phenomena in sodium chloride solutions treated in gas-phase pulsed corona discharge reactor

Kuntus, Liina; Preis, Sergei; Kornev, Iakov 6th European Conference on Environmental Applications of Advanced Oxidation

Processes, Portorož - Portorose, Slovenia, 26-30 June 2019 : book of abstracts 2019 / p. 659

Energiaefektiivne õhupuhasi hoiab toa sooja ja õhu kvaliteetse

Preis, Sergei Mente et Manu 2021 / lk. 47 : fot [Mente et Manu 1/2021 https://www.ester.ee/record=b1242496*est](https://www.ester.ee/record=b1242496*est)

Energy consumption in ozonation and photo-catalytical oxidation

Preis, Sergei; Kamenev, Sven 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 57

Environmental impact of alternative red mud utilization for metal extraction

Vitvarova, Monika; Novacek, David; Barreneche, Camila; Svobodova, Adela; Nazir, Shareq; Souza, Pedro; Koci, Vladimir; Karaca, Arif; Preis, Sergei SETAC Europe 34th Annual Meeting : "Science-Based Solutions in Times of Crisis : Integrating Science and Policy for Environmental Challenges" : book of abstracts 2024 / abs.: 5.04.P-Tu504

<https://setac.confex.com/setac/europe2024/meetingapp.cgi/Paper/23388>

Environmental problems of the Baltic Sea region

Preis, Sergei Scientific, environmental, and political issues in the Circum-Caspian region 1997 / p. 227-244

Estimation of energy consumed by ozonation photocatalytical oxidation

Preis, Sergei; Kamenev, Sven Regional Conference on Ozone Generation and Application to Water and Waste Water Treatment :

ECWATECH-98, Moscow, Russia, 26-28 May, 1998 : proceedings 1998 / p. 29-39

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

Evolution of biochemical processes in coking wastewater treatment : a combined evaluation of material and energy efficiencies and secondary pollution

Qin, Zhi; Wei, Cong; Wei, Tuo; Li, Zemin; Pang, Zijun; Luo, Pei; Feng, Chunhua; Qiu, Guanglei; Wei, Chaohai; Wu, Haizhen; Peng, Yahuan; Jian, Chengfu; Preis, Sergei Science of the total environment 2022 / 13 p. : ill <https://doi.org/10.1016/j.scitotenv.2021.151072>

Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Facile preparation of nitrogen and sulfur co-doped graphene-based aerogel for simultaneous removal of Cd²⁺ and organic dyes

Kong, Qiaoping; Wei, Chaohai; Preis, Sergei; Hu, Yun; Wang, Feng Environmental science and pollution research 2018 / p. 21164–

21175 : ill <https://doi.org/10.1007/s11356-018-2195-8> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Fenoolsete ainete oksüdeerimine vesilahustes

Preis, Sergei; Terentjeva, Jelena XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 111

Fenoolsete ja aroomaatse[te] amiinühendite fotokatalüütiline oksüdatsioon saastatud vetes

Preis, Sergei; Kritševskaja, Marina; Terentjeva, Jelena; Moiseev, Anna XXV Eesti keemiapäevad : teaduskonverentsi

ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 134-135

Fenoolsete ühendite fotokatalüütiline oksüdeerimine põlevkivitööstuse heitvetes = Photocatalytical oxidation of phenolic compounds in wastewater from oil shale treatment

Preis, Sergei; Terentjeva, Jelena; Rožkov, Aleksei XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th

Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 153-154 https://www.ester.ee/record=b1070511*est

Fotokatalüütiline oksüdeerimine veepuhastuses, eelised ja tõkked rakendamisel

Preis, Sergei Keskkonnatehnika 1997 / 4, lk. 31-32

Fotokatalüütilised oksüdeerimisprotsessid vee puhastuses

Preis, Sergei; Terentjeva, Jelena; Maksimova, Irina XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th

Estonian chemistry days : abstracts of scientific conference 1995 / lk. 116-117

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 dechlorination of carbon tetrachloride over zero valent iron under mild process conditions

Preis, Sergei; Magrini, Kimberly A.; Wolfrum, Edward J. AOTs-5 : The Fifth International Conference on Advanced Oxidation Technologies for Water and Air Remediation, Albuquerque, New Mexico, USA, May 24-28, 1999 : abstracts 1999 / p. 118

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 carbon tetrachloride over iron-containing materials under mild process conditions

Preis, Sergei; Magrini, Kimberly A.; Wolfrum, Edward J. Oxidation Technologies for Water and Wastewater Treatment : 2nd International Conference 2000 / p. 75

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 activity of nanostructured titanium dioxide from diffusion flame synthesis

Jöks, Svetlana; **Klauson, Deniss; Kritševskaja, Marina; Preis, Sergei;** Moiseev, Anna; Qi, F.; Deubener, Joachim; Weber, Alfred Photocatalytic and Advanced Oxidation Technologies for Treatment of Water, Air, Soil and Surfaces (PAOT) : Gdansk, Poland, 4-8 July, 2011 : abstracts 2011 / p. 62

Gas-phase photocatalytic activity of nanostructured titanium dioxide from flame aerosol synthesis

Jöks, Svetlana; Klauson, Deniss; Kritševskaja, Marina; Preis, Sergei; Qi, Fei; Weber, Alfred; Moiseev, Anna; Deubener, Joachim Applied catalysis B : environmental 2012 / p. 1-9 : ill <https://www.sciencedirect.com/science/article/pii/S0926337311004255>

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 : Environmental Applications : book of abstracts 2004 / p. 305-306

Gas-phase photocatalytic oxidation of acrylonitrile

Kritševskaja, Marina; Jöks, Svetlana; Katšina, Anna; Preis, Sergei Photochemical & photobiological science 2009 / 5, p. 600-603 : ill

Gas-phase photocatalytic oxidation of acrylonitrile

Kritševskaja, Marina; Jöks, Svetlana; **Katšina, Anna; Preis, Sergei** The 5th European Meeting on Solar Chemistry and Photocatalysis : Environmental Applications (SPEA5) : 04-08 October 2008, Palermo, Italy : book of abstracts 2008 / p. PP2.20

Gas-phase photocatalytic oxidation of acrylonitrile on sulphated TiO₂ : continuous flow and transient study

Jöks, Svetlana; Kritševskaja, Marina; Preis, Sergei Catalysis letters 2011 / p. 309-315 : ill

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

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

Gas-phase photocatalytic oxidation of motor fuel oxygenated additives

Preis, Sergei; Falconer, J.L. Water science and technology Water science & technology 2004 / 4, p. 141-145

Gas-phase photocatalytic oxidation of motor fuel oxygenated additives

Preis, Sergei; Falconer, J. 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 / lk. 216-220

Gas-phase photocatalytic oxidation of motor fuel oxygenated additives

Preis, Sergei; Falconer, J.L. International Conference EcoBalt'2002, Riga, June 7-8, 2002 2002 / p. 11-12

Gas-phase photocatalytic oxidation of motor fuel oxygenated additives

Preis, Sergei; Falconer, J.L. 2[nd] European Meeting on: "Solar-Chemistry and Photocatalysis : Environmental Applications", Saint-

Avold (France), May 29-31, 2002 : book of abstracts 2002 / p. P30

Gas-phase photocatalytic oxidation of styrene in a simple tubular TiO₂ reactor

Kritševskaja, Marina; Preis, Sergei Journal of advanced oxidation technologies 2003 / 2, p. 150-157

Generation of active oxidant species by pulsed dielectric barrier discharge in water-air mixtures

Kornev, Iakov; Yavorsky, N.; **Preis, Sergei**; Khaskelberg, M.; Isaev, U.; Chen, Ben-Nam Ozone : science & engineering 2006 / 4, p. 207-215 <https://www.tandfonline.com/doi/full/10.1080/01919510600704957>

Graphene oxide-terminated hyperbranched amino polymer-carboxymethyl cellulose ternary nanocomposite for efficient removal of heavy metals from aqueous solutions

Kong, Qiaoping; **Preis, Sergei**; Li, Leli; Luo, Pei; Hua, Yun; Wei, Chaohai International journal of biological macromolecules 2020 / p. 581-592 : ill <https://doi.org/10.1016/j.ijbiomac.2020.01.185> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

High-strength fuel pellets made of flour milling and coal slack wastes

Tabakaev, Roman; Kahn, Victor; Dubinina, Yury; **Preis, Sergei** Energy 2022 / art. 123071 <https://doi.org/10.1016/j.energy.2021.123071> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Historical analysis of habitat turnover and age distributions as a reference for restoration of Austrian Danube floodplains

Hohensinner, S.; Haidvogel, G.; Jungwirth, M.; Muhar, S.; **Preis, Sergei** River basin management III : Third International Conference on River Basin Management 2005 / p. 489-502 : ill https://www.researchgate.net/publication/230580567_Historical_analysis_of_habitat_turnover_and_age_distributions_as_a_reference_for_restoration_of_Austrian_Danube_floodplains

History of ozone synthesis and use for water treatment [Electronic resource]

Preis, Sergei Encyclopedia of life support systems (EOLSS). Chapter 6.192 2008

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

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

Humiinainete fotokatalüütiline oksüdatsioon vesilahustes

Portjanskaja, Elina; **Kritševskaja, Marina; Preis, Sergei** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 103

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

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

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

Influence of ferrous/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 ferrous/ferric ions to the efficiency of aqueous photocatalytic oxidation of 2-ethoxy ethanol

Klauson, Deniss; **Preis, Sergei** Abstracts of the International Conference "Eco-Balt 2004" 2004 / p. 7-8

Jõhker kogus ravimijäätet jõeab meie kanalisatsiooni! Tehnikaülikooli teadlane Sergei Preis selgitab selle tagajärgi

Preis, Sergei digi.geenius.ee 2024 [Jõhker kogus ravimijäätet jõeab meie kanalisatsiooni! Tehnikaülikooli teadlane Sergei Preis selgitab selle tagajärgi](#)

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

Ka klaasitais sooja kraanivett võib teha tervisele kahju

Michelson, Tarmo Maaleht 2024 / lk. 8-9 https://dea.digar.ee/article/maaleht/2024/04/04/10.1_Ka_klaasitais_sooja_kraanivett_voib_teha_tervisele_kahju

Kas petrooleum või antifriis? Lennukikütuste jäätumisevastaste ainete fotokatalüütiline oksüdatsioon

Preis, Sergei; Kritševskaja, Marina Keskkonnatehnika 2000 / 2, lk. 27-28 https://artiklid.elnet.ee/record=b1003608*est

Kinetic description of industrial wastewater ozonation processes

Preis, Sergei; Munter, Rein; Siirde, Enno Ozone: science & engineering : the journal of the International Ozone Association 1988 / p. 379-392 : ill https://www.ester.ee/record=b1201727*est <https://www.tandfonline.com/doi/abs/10.1080/01919518808552392>

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

Kohtla-Järve tuhamägede heitvees sisalduvate toksiliste ja kantserogeensete ühendite kahjutustamise võimalusi

Munter, Rein; Trapido, Marina; Veressinina, Jelena; Preis, Sergei; Pikkov, Lui Kaasaegse ökoloogia probleemid. Alalhoidlik areng ja looduskeskne elulaad : Eesti VI ökoloogiakonverentsi lühiaartiklid, Tartu, 24.-26. aprill 1994 1994 / lk. 199-203

Kui mürgine on soe vesi?

Vill, Ants Kodu & Ehitus : TM 2024 / lk. 47-50 : fot https://www.ester.ee/record=b1740684*est

Laboratory study of bioremediation of rocket fuel-polluted groundwater

Rožkov, Aleksei; Vassiljeva, Irina; Kurvet, Madis; Kahru, Anne; Preis, Sergei; Hartšenko, Anna; Kritševskaja, Marina; Liiv, Milana; Käär, Arvo; Vilu, Raivo Water research 1999 / no. 5, [12] p.: ill

Mechanochemically driven covalent self-assembly of a chiral mono-biotinylated hemicucurbit[8]uril

Suut-Tuule, Elina; Jarg, Tatsiana; Tikker, Priit; Lootus, Ketren-Marlein; Martõnova, Jevgenija; Reitalu, Rauno; Ustrnol, Lukas; Ward, Jas S.; Rjabovs, Vitalijs; Shubin, Kirill; Nallaparaju, Jagadeesh Varma; Vendelin, Marko; Preis, Sergei; Öeren, Mario; Rissanen, Kari; Kananovich, Dzmitry; Aav, Riina Cell reports physical science 2024 / art. 102161 <https://doi.org/10.1016/j.xcrp.2024.102161>

Methodology of ozone introduction into water and wastewater treatment

Munter, Rein; Preis, Sergei; Siirde, Enno; Sütt, J. Proceedings European Ozone Conference, Belgrade, Yugoslavia, October 10-12, 1990 1990 / p. 458-479

Methodology of ozone introduction into water/wastewater treatment

Munter, Rein; Preis, Sergei; Kamenev, Sven; Siirde, Enno Ozone : science & engineering 1993 / 2, p. 149-165

Microwave pyrolysis of cattle manure : initiation mechanism and product characteristics

Tabakaev, Roman; Kalinich, Ivan; Mostovshchikov, Andrei; Dimitryuk, Igor; Asilbekov, Askar; Ibraeva, Kanipa; Gaidabrus, Mariya; Shanenkov, Ivan; Rudmin, Maxim; Yazykov, Nikolay; Preis, Sergei Biomass Conversion and Biorefinery 2024 / p. 26193-26204 <https://doi.org/10.1007/s13399-023-04686-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mootorikütuse hapnikurikaste lisandite fotokatalüütiline oksüdatsioon õhus

Preis, Sergei; Falconer, J.L. XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 114-115

MTBE Eestis : [tert-butüülmetüüleeter (MTBE) bensiinilisandina]

Preis, Sergei Keskkonnatehnika 2001 / 1, lk. 23-26 https://artiklid.elnet.ee/record=b1006159*est

MTBE katalüütiline hapendamine 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

MTBE vesilahuste fotokatalüütiline oksüdatsioon

Katšina, Anna; Kritševskaja, Marina; Preis, Sergei XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 48

Mõtteid keemiatehnika õppetooli töö organiseerimisest

Preis, Sergei Tehnikaülikool 2000 / 22. mai, lk. 6 : portr https://www.ester.ee/record=b5309277*est

Naftaproduktide fotokatalüütiline fotoooksüdatsioon

Preis, Sergei; Hartšenko, Anna XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 109

Nationwide review of heavy metals in municipal sludge wastewater treatment plants in China: Sources, composition, accumulation and risk assessment

Cheng, Xiaoqian; Wei, Cong; Ke, Xiong; Pan, Jiamin; Wei, Gengrui; Chen, Yao; Wei, Chaohai; Li, Fusheng; **Preis, Sergei** Journal of hazardous materials 2022 / art. 129267 <https://doi.org/10.1016/j.jhazmat.2022.129267> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimization of aqueous media treatment with pulsed corona discharge : hydrodynamics and kinetics conformed with the discharge parameters and energy efficiency = Impulss koroona elektrilahenduse optimeerimine vesikeskkonna töötlemiseks : hüdrodünaamika ja kineetika lähtuvalt elektrilahenduse parameetritest ning energia efektiivsusest

Tikker, Priit 2022 <https://doi.org/10.23658/taltech.42/2022> <https://digikogu.taltech.ee/et/Item/00388653-484b-41dd-bcb7-a67df7b65d6e> https://www.ester.ee/record=b5508894*est

Optimized spray density in water treatment with gas-phase pulsed corona discharge

Tikker, Priit; Kornev, Iakov; Preis, Sergei 6th European Conference on Environmental Applications of Advanced Oxidation Processes, Portorož - Portorose, Slovenia, 26-30 June 2019 : book of abstracts 2019 / p. 678–679

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

Munter, Rein; Trapido, Marina; Kallas, Juha; Kamenev, Sven; Preis, Sergei; Viiroja, 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; Viiroja, 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 of aqueous phenol catalyzed by biochar produced from sludge obtained in the treatment of coking wastewater

Zhang, Fengzhen; Wu, Kaiyi; Zhou, Hongtao; Hu, Yun; **Preis, Sergei; Wu, Haizhen; Wei, Chaohai** Journal of environmental management 2018 / p. 376-386 : ill <https://doi.org/10.1016/j.jenvman.2018.07.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ozone-assisted degradation of 2-methoxyethanol in a prototype plug flow photocatalytic reactor

Altof, Kristen; Krichevskaya, Marina; Preis, Sergei; Tähemaa, Toivo; Bolobajev, Juri Chemical engineering journal 2024 / art. 148488 <https://doi.org/10.1016/j.cej.2023.148488>

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

Oxidation energy efficiency in water treatment with gas-phase pulsed corona discharge as a function of spray density

Tikker, Priit; Kornev, Iakov; Preis, Sergei Journal of electrostatics 2020 / art. 103466, 5 p. : ill <https://doi.org/10.1016/j.elstat.2020.103466> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxidation energy efficiency in water treatment with gas-phase pulsed corona discharge as a function of spray density : [conference paper]

Tikker, Priit; Kornev, Iakov; Preis, Sergei GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 83 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Oxidation of airborne m-Xylene in pulsed corona discharge: Impact of water sprinkling

Altof, Kristen; Krichevskaya, Marina; Preis, Sergei; Bolobajev, Juri ChemEngineering 2024 / art. 99 <https://doi.org/10.3390/chemengineering8050099>

Oxidation of aqueous bisphenols A and S by pulsed corona discharge : impacts of process control parameters and oxidation products identification

Tikker, Priit; Nikitin, Dmitri; Preis, Sergei The chemical engineering journal 2022 / art. 135602

<https://doi.org/10.1016/j.ccej.2022.135602> [Journal metrics at Scopus](#) [Article of Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxidation of aqueous bisphenols A and S by pulsed corona discharge : impacts of process control parameters and oxidation products identification : [conference paper]

Tikker, Priit; Nikitin, Dmitri; Preis, Sergei MonGOS International Conference Water and Sewage in the Circular Economy Model : abstract book 2022 / p. 69 <https://www.researchgate.net/publication/362102748>

Oxidation of aqueous corticosteroid dexamethasone with pulsed corona discharge

Onga, Liina; Kattel-Salusoo, Eneliis; Trapido, Marina; Preis, Sergei GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 20 https://fmdtk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Oxidation of aqueous dexamethasone solution by gas-phase pulsed corona discharge

Onga, Liina; Kattel-Salusoo, Eneliis; Trapido, Marina; Preis, Sergei Water 2022 / art. 467 <https://doi.org/10.3390/w14030467> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxidation of aqueous dexamethasone solution by gas-phased pulsed coronadischarge

Onga, Liina; Kattel-Salusoo, Eneliis; Trapido, Marina; Preis, Sergei MonGOS International Conference Water and Sewage in the Circular Economy Model : abstract book 2022 / p. 70 <https://www.mongos-conference.eu/>

Oxidation of aqueous naproxen using gas-phase pulsed corona discharge : impact of operation parameters

Kopecka, Romana; Onga, Liina; Preis, Sergei Water 2022 / art. 3327 <https://doi.org/10.3390/w14203327> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxidation of aqueous N-nitrosodiethylamine: experimental comparison of pulsed corona discharge with H2O2-assisted ozonation

Kask, Maarja; Kritševskaja, Marina; Preis, Sergei; Bolobajev, Juri Journal of environmental chemical engineering 2021 / art. 105102 <https://doi.org/10.1016/j.jece.2021.105102> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxidation of aqueous organic molecules in gas-phase pulsed corona discharge : impact of operation parameters =

Orgaaniliste molekulide oksüdeerimine gaasifaasilise koroona-impulss elektrilahendusega : töörežiimi parameetrite mõju
Onga, Liina 2022 <https://doi.org/10.23658/taltech.26/2022> <https://digikogu.taltech.ee/et/Item/3cbfe919-6281-4331-8fcb-d4dbb0de1b4c>
https://www.ester.ee/record=b5499812*est

Oxidation of aqueous organic molecules in gas-phase pulsed corona discharge affected by sodium dodecyl sulphate: Explanation of variability

Onga, Liina; Boroznjak, Roman; Kornev, Iakov; Preis, Sergei Journal of electrostatics 2021 / art. 103581, 6 p <https://doi.org/10.1016/j.elstat.2021.103581> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxidation of aqueous pharmaceuticals with persulfate activated by non-thermal plasma

Nikitin, Dmitri; Kattel-Salusoo, Eneliis; Preis, Sergei; Dulova, Niina Journal of international scientific publications : ecology & safety 2023 / p. 58–66 <https://www.scientific-publications.net/en/article/1002624/>

Oxidation of aqueous p-Nitroaniline by pulsed corona discharge

Jayachandrabal, Balachandramohan; Tikker, Priit; Preis, Sergei Separation and Purification Technology 2022 / Art. nr. 121473 <https://doi.org/10.1016/j.seppur.2022.121473> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxidation of aqueous toluene by gas-phase pulsed corona discharge in air-water mixtures followed by photocatalytic exhaust air cleaning

Kask, Maarja; Kritševskaja, Marina; Preis, Sergei; Bolobajev, Juri Catalysts 2021 / art. 549, 11 p. : ill <https://doi.org/10.3390/catal11050549> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxidation of bisphenol a by pulsed corona discharge : impacts of plasma-liquid contact surface and a surfactant radical scavenger

Nikitin, Dmitri; Tikker, Priit; Preis, Sergei GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 37 https://fmdtk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Oxidation of pharmaceuticals in urine by pulsed corona discharge

Petrošenko, Irina; Dulova, Niina; Preis, Sergei EAAOP-7 : The 7th International Conference on Environmental Applications of Advanced Oxidation Processes 2025 : Programme Booklet 2025 / p. 398-399 <https://www.eaaop7.it/>

Oxidation of phenolic compounds in aqueous solutions

Preis, Sergei; Terentjeva, Jelena 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 121

Oxidation of reactive azo-dyes with pulsed corona discharge : surface reaction enhancement

Onga, Liina; Kornev, Iakov; Preis, Sergei Journal of electrostatics 2020 / art. 103420, 5 p. : ill

Oxidation of reactive azo-dyes with pulsed corona discharge : surface reaction enhancement : [conference paper]

Onga, Liina; Kornev, Iakov; **Preis, Sergei** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 68
<http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Oxidation of ubiquitous aqueous pharmaceuticals with pulsed corona discharge

Derevshchikov, Vladimir; Dulova, Niina; Preis, Sergei Journal of electrostatics 2021 / art. 103567, 9 p.: ill

<https://doi.org/10.1016/j.elstat.2021.103567> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Oxidative degradation of vancomycin by UV and pulsed corona discharge in combination with oxidants: hydrogen peroxide, peroxymonosulfate and peroxydisulfate

Nikitin, Dmitri; Kaur, Balpreet; Preis, Sergei; Dulova, Niina GEET International Conference : Green Energy and Environmental Technology : Abstract Book 2022 / 1 I. <https://scik.eu/Rome2022/GrAbBo.php>

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>

Oxidative treatment of phenolic wastewater disposed into the Gulf of Finland from oil shale processing industry in Estonia

Kamenev, Sven; Preis, Sergei The Baltic Sea and Its Environment : ESTO-96 Twin Symposium, August 6 and 9, 1996, Stockholm-Tallinn 1997 / p. 73-74

Persulfate activated by non-thermal plasma for pharmaceuticals degradation

Nikitin, Dmitri; Kattel-Salusoo, Eneliis; Preis, Sergei; Dulova, Niina IOA 26th World Congress & Exhibition Milano 2023 : proceedings 2023 / p. 18.1-1-18.1-5 <https://www.ioa-ea3g.org/congress/technical-programme/information-for-authors/>

Persulfate contribution to photolytic and pulsed corona discharge oxidation of metformin and tramadol in water

Nikitin, Dmitri; Balpreet Kaur; Preis, Sergei; Dulova, Niina Process Safety and Environmental Protection 2022 / p. 22-30

<https://doi.org/10.1016/j.psep.2022.07.002> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Persulfate contribution to photolytic and pulsed corona discharge oxidation of metformin and tramadol in water : [conference paper]

Nikitin, Dmitri; Kaur, Balpreet; Preis, Sergei; Dulova, Niina Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 44 [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](https://www.gsfmt.org/conference/abstracts/2022/)

pH and oxidation by-products in photocatalytic treatment

Preis, Sergei; Kritševskaja, Marina; Terentjeva, Jelena 13th International Congress of Chemical and Process Engineering : CHISA'98 : 23-28 August 1998, Praha, Czech Republic. Summaries 1, 2nd Symposium on Environmental and Safety Engineering 1998 / p. 21

pH influence on oxidation by-products in photocatalytic treatment

Preis, Sergei; Kritševskaja, Marina; Terentjeva, Jelena 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 58

Photocatalytic decomposition of humic acids in anoxic aqueous solutions producing hydrogen, oxygen and light hydrocarbons

Klauson, Deniss; Budarnaja, Olga; Castellanos Beltran, Ignacio; Kritševskaja, Marina; Preis, Sergei Environmental technology 2014 / p. 2237-2243 : ill <https://doi.org/10.1080/09593330.2014.900116> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Photocatalytic oxidation of 1,1-dimethyl hydrazine vapours on TiO₂ : FTIR in situ studies

Kolinko, P.A.; Kozlov, D.V.; Vorontsov, A.V.; Preis, Sergei Catalysis today 2007 / 1/2, p. 178-185
<https://www.sciencedirect.com/science/article/abs/pii/S0920586107000557>

Photocatalytic oxidation of aromatic aminocompounds in aqueous solutions and groundwater from abandoned military bases

Preis, Sergei; Kritševskaja, Marina; Hartšenko, Anna Water science and technology 1997 / p. 265-272 : ill
[https://doi.org/10.1016/S0273-1223\(97\)00034-6](https://doi.org/10.1016/S0273-1223(97)00034-6)

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 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** International Conference EcoBalt'2002, Riga, June 7-8, 2002 2002 / p. 14-15

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-Avoid (France), May 29-31, 2002 : book of abstracts 2002 / p. O38

Photocatalytic oxidation of humic substances with TiO₂ attached to the hollow glass micro-spheres

Portjanskaja, Elina; **Kritševskaja, Marina; Preis, Sergei** Abstracts of the International Conference "Eco-Balt 2004" 2004 / p. 5-6

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

Photocatalytic oxidation of natural polymers in aqueous solutions = Looduslike polümeeride fotokatalüütiline oksüdatsioon vesilahustes

Portjanskaja, Elina 2009 https://www.ester.ee/record=b2491725*est

Photocatalytic oxidation of organic pollutants in aqueous and gaseous phases

Kritševskaja, Marina; Preis, Sergei 2003 https://www.ester.ee/record=b1782241*est

Photocatalytic oxidation of phenolic compounds in wastewater from oil shale treatment

Preis, Sergei; Terentjeva, Jelena; Rožkov, Aleksei Water science and technology 1997 / 4, p. 165-174
<https://www.sciencedirect.com/science/article/abs/pii/S0273122397883941>

Photocatalytic oxidation of VX-simulation substance

Kozlova, E.; Vorontsov, A.; Rima, G.; Lion, C.; **Preis, Sergei** Water science and technology 2007 / 12, p. 133-138
<https://iwaponline.com/wst/article-abstract/55/12/133/14264/Photocatalytic-oxidation-of-VX-simulation?redirectedFrom=fulltext>

Photocatalytical oxidation of aromatic aminocompounds

Preis, Sergei; Kritševskaja, Marina; Hartšenko, Anna 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 120

Photocatalytical oxidation of aromatic aminocompounds in aquatic solutions and groundwater from abandoned military base

Preis, Sergei; Kritševskaja, Marina; Hartšenko, Anna International Conference - Oxidation Technologies for Water and Wastewater Treatment / Clausthaler Umwelttechnik-Institut GmbH 1996 / [9] p.: ill

Photocatalytical oxidation of aromatic aminocompounds in aqueous solutions and groundwater from abandoned military base

Preis, Sergei; Kritševskaja, Marina; Hartšenko, Anna 12th International Congress of Chemical and Process Engineering : CHISA'96, Praha, Czech Republic, 25-30 August 1996 : summaries. 1, Symposium on Environmental and Safety Engineering 1996 / p. 18

Photocatalytical oxidation of oil products

Preis, Sergei; Hartšenko, Anna 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 119

Photocatalytical oxidation of phenolic compounds in wastewater from oil shale treatment

Preis, Sergei; Terentjeva, Jelena; Rožkov, Aleksei International Conference - Oxidation Technologies for Water and Wastewater Treatment / Clausthaler Umwelttechnik-Institut GmbH 1996 / [20] p.: ill

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

Photocatalytical oxidation of phenolic compounds in wastewater treatment

Preis, Sergei Proceedings of the World Environmental Congress : London, Ontario, Canada, September 17-22, 1995 1995 / p. 277-278

Photocatalytical treatment of groundwater polluted with aircraft fuel residues

Kritševskaja, Marina; Preis, Sergei; Malõgina, Tatjana Oxidation Technologies for Water and Wastewater Treatment : 2nd International Conference 2000 / p. 211

Physicochemical pre- and post-treatment of coking wastewater combined for energy recovery and reduced environmental risk

Li, Zemin; Wei, Tuo; Pan, Jiamin; Liang, Yitong; Ban, Zixin; Ke, Xiong; Kong, Qiaoping; Qiu, Guanglei; Hu, Yun; **Preis, Sergei**; Wei, Chaohai Journal of hazardous materials 2023 / art. 130802, 10 p. : ill <https://doi.org/10.1016/j.jhazmat.2023.130802> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pinch analysis helps save energy in an alcohol distillery in Estonia

Kamenev, Inna; Klemeš, J.; **Mikkal, Valdek**; **Preis, Sergei**; **Tali, Enn**; Valdlo, K.; **Viirja, Andres** 12th International Congress of Chemical and Process Engineering : CHISA'96, Praha, Czech Republic, 25-30 August 1996 : summaries. 8, Process System Engineering 1996 / p. 38

PINCH-analüüs aitab hoida kokku energiat = PINCH-analysis helps to save energy at alcohol distillery

Kamenev, Inna; Klemensh, J.; **Mikkal, Valdek**; **Preis, Sergei**; **Tali, Enn**; Valdlo, K.; **Viirja, Andres** XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 65-66 https://www.ester.ee/record=b1070511*est

Plasma abil vett puhastama

Alvela, Ain Tehnikamaailm : TM : sõidukid, elektroonika, teadus, tehnoloogia 2019 / lk. 84-88 : fot https://www.ester.ee/record=b1073050*est

Potential of electric discharge plasma methods in abatement of volatile organic compounds originating from food industry

Preis, Sergei; **Klauson, Deniss**; **Gregor, Andre** Journal of environmental management 2013 / p. 125-138 <https://doi.org/10.1016/j.jenvman.2012.10.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Practical applications of a systematic approach to the chemical abatement of pollutants in water and air

Preis, Sergei 2002 https://www.ester.ee/record=b1740069*est

Preozonation of Lake Ülemiste water

Munter, Rein; **Siirde, Enno**; **Lond, Heldur**; **Sutt, Jüri**; **Preis, Sergei** 10 th Ozone World Congress, March, 1991, Monaco : proceedings. Vol. 2 1991 / p. 401-413: ill

Puhas vesi võib olla kahjulik! : [vestlus Sergei Preisiga]

Preis, Sergei; **Majevskaja, Nadežda** Tehnikaülikool 1992 / 11. juuni, lk. 4-5

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>

Pulsed corona discharge for improving treatability of coking wastewater

Liu, Ming; **Preis, Sergei**; Kornev, Iakov; Hu, Yun; Wei, Chao-Hai Journal of environmental sciences 2018 / p. 306-316 : ill <https://doi.org/10.1016/j.jes.2017.07.003>

Pulsed dielectric barrier discharge as a method of water treatment : active oxidizers in the air-water flow

Yavorovski, Nikolaj; Kornev, Iakov; **Preis, Sergei**; Peltsman, Samuil; Haskelberg, Mihhail; Chen, Ben-Nam Transactions of Tomsk Polytechnic University 2006 / 2, p. 108-113

Põhjaveit 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

Raskesti lagundatavate ühenditega reostatud vee ja õhu koospuhastamine

Preis, Sergei; **Kamenev, Inna** Keskkonnatehnika 2001 / 6, lk. 13-16 https://artiklid.elnet.ee/record=b1008674*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

Relations between metal ion characteristics and adsorption performance of graphene oxide: A comprehensive

experimental and theoretical study

Kong, Qiaoping; **Preis, Sergei**; Li, Leli; Luo, Pei; Wei, Cong; Li, Zemin; Hu, Yun; Wei, Chaochai Separation and purification technology 2020 / art. 115956 ; 8 p. : ill <https://doi.org/10.1016/j.seppur.2019.115956> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reostusohit: Kui su kodune vesi tuleb plasttorudest, kasuta joogiks ja toiduvalmistamiseks ainult külma vett

Soopan, Ivar rohe.geenius.ee 2024 [Reostusohit: Kui su kodune vesi tuleb plasttorudest, kasuta joogiks ja toiduvalmistamiseks ainult külma vett](#)

Samiiniga reostatud põhjavee puhastamine granuleeritud aktiivsõega

Reinik, Janek; Viiraja, 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

Seasonal dynamics of bacterial composition and functions in biological treatment of coking wastewater

Tan, Zhijie; Chen, Wenli; Guo, Ziyu; Xu, Xingyuan; Xie, Juntong; Dai, Jiangpeng; Lin, Yuexia; Sheng, Binbin; **Preis, Sergei**; Wei, Chaochai; Zhu, Shuang Applied microbiology and biotechnology 2024 / art. 490 <https://doi.org/10.1007/s00253-024-13274-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selection of optimum biological treatment for coking wastewater using analytic hierarchy process

Wei, Cong; Wei, Jingyue; Kong, Qiaoping; Fan, Dan; Qiu, Guanglei; Feng, Chunhua; Li, Fusheng; **Preis, Sergei** The science of the total environment 2020 / art. 140400 ; 12 p. : ill <https://doi.org/10.1016/j.scitotenv.2020.140400> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective performance of sol-gel synthesised titanium dioxide photocatalysts in aqueous oxidation of various-type organic pollutants

Klaason, Deniss; Budarnaja, Olga; Stepanova, Kristina; Kritševskaja, Marina; Dedova, Tatjana; Käkinen, Aleksandr; Preis, Sergei Kinetics and catalysis 2014 / p. 47-55 : ill <https://doi.org/10.1134/S0023158414010030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Sergei Preis: Seine'i jõe reostuse kohta on üks hea ja üks halb uudis

Preis, Sergei forte.delfi.ee 2024 [Sergei Preis: Seine'i jõe reostuse kohta on üks hea ja üks halb uudis](#)

Simultaneous nitrite and ammonium production in an autotrophic partial denitrification and ammonification of wastewaters containing thiocyanate

Pan, Jianxin; Wei, Chaochai; Fu, Bingbing; Ma, Jingde; **Preis, Sergei;** Wu, Haizhen; Zhu, Shuang Bioresource technology 2018 / p. 20-27 : ill <https://doi.org/10.1016/j.biortech.2017.12.059>

Solubilization of polycyclic aromatic hydrocarbons (PAHs) with phenol in coking wastewater treatment system: Interaction and engineering significance

Kong, Qiaoping; Wu, Haizhen; Liu, Lei; **Preis, Sergei** Science of the total environment 2018 / p. 467-473 : ill <https://doi.org/10.1016/j.scitotenv.2018.02.077> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spark erosion in a metal spheres bed : experimental study of the discharge stability and energy efficiency

Kornev, Iakov; Saprykin, Filipp; Lobanova, Galina; Ushakov, Vasily; **Preis, Sergei** Journal of electrostatics 2018 / p. 111-118 : ill <https://doi.org/10.1016/j.elstat.2018.10.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structure and function of microbial community associated with phenol co-substrate in degradation of benzo[a]pyrene in coking wastewater

Wu, Haizhen; Wang, Ming; Zhu, Shuang; **Preis, Sergei** Chemosphere 2019 / p. 128-138 : ill <https://doi.org/10.1016/j.chemosphere.2019.04.117> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stüreeni fotokatalüütiline oksüdatsioon gaasifaasis

Kritševskaja, Marina; Preis, Sergei XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 64

Sulfametisooli fotokatalüütiline oksüdatsioon vesifaasis

Klauson, Deniss; Kritševskaja, Marina; Borissova, Maria; Preis, Sergei XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 44

Surfactant and non-surfactant radical scavengers in aqueous reactions induced by pulsed corona discharge treatment

Wang, Yi-Xian; Kornev, Iakov; Wei, Chao-Hai; **Preis, Sergei** Journal of electrostatics 2019 / p. 82-86 : ill

<https://doi.org/10.1016/j.elstat.2019.03.001> Tehnikaülikooli teadlaste uudne lahendus puhastab vett elektriga [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Süsiniktetrakloriidi katalüütiline deklorimine metalse rauaga gaasifaasis mahedates reaktsiooni tingimustes

Preis, Sergei Keskkonnatehnika 1999 / 1, lk. 16-17 https://artiklid.elnet.ee/record=b1000333*est

Süsiniktetrakloriidi lagundamine rauaga gaasifaasis

Preis, Sergei; Magrini, Kimberly A.; Wolfrum, E.J. XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 136

Süsiniktetrakloriidi lagundamisest rauasulamitel mõõdukates 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

Süvaoksüdatsiooni tehnoloogiate arendamine kaasaegsete keskkonnaprobleemide lahendamiseks : tugevalt saastatud tööstusreovetest mikrosaasteaineni õhus ja vees

Trapido, Marina; Dulova, Niina; Kritševskaja, Marina; Preis, Sergei Eesti Vabariigi preemiad 2020 : teadus. F. J. Wiedemanni keeleauhind. Sport. Kultuur. Haridus 2020 / lk. 92-107 : fot https://www.ester.ee/record=b1226072*est https://www.akadeemia.ee/wp-content/uploads/2020/08/ev_preemaid_2020_veebi1.pdf

Symbiotic virus-bacteria interactions in biological treatment of coking wastewater manipulating bacterial physiological activities

Zhu, Shuang; Tan, Zhijie; Guo, Ziyu; Zheng, Huijian; Zhang, Baoshan; Qin, Zhi; Xie, Juntong; Lin, Yuexia; Sheng, Binbin; Qiu, Guanglei; **Preis, Sergei**; Wei, Chao-Hai Water research 2024 / art. 121741 <https://doi.org/10.1016/j.watres.2024.121741>

Zero valent boron activated ozonation for ultra-fast degradation of organic pollutants : atomic orbital matching, oxygen spillover and intra-electron transfer

Zhang, Fengzhen; Kong, Qiaoping; **Preis, Sergei** The chemical engineering journal 2022 / art. 134674

<https://doi.org/10.1016/j.cej.2022.134674> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Zero valent iron chemistry evaluated for gas phase carbon tet dechlorination

Magrini, K.; **Preis, Sergei** HazTECH News : The newsletter of Hazardous waste treatment technology 1998 / No. 12, July 2, p. 92

TalTechi professorid kinnitavad: plasttorudest eraldub joogivette kahjulikke kemikaale

Niidu, Allan; Preis, Sergei; Annus, Ivar Ehitaja 2024 / lk. 21-23 : fot https://www.ester.ee/record=b1072123*est

TalTechis leiutati viis õhupuhasteid parendada

Imeline Teadus 2019 / lk. 21 https://www.ester.ee/record=b2747925*est

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

Tekstiilitööstuse reovee ja selle mudellahuste fotokatalüütiline oksüdatsioon

Pitkun, Natalja; **Kritševskaja, Marina; Preis, Sergei** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 100

Template synthesis of titanium dioxide coatings and determination of their photocatalytic activity by aqueous oxidation of humic acid

Budarnaja, Olga; Klauson, Deniss; Dedova, Tatjana; Kärber, Erki; Viljus, Mart; Preis, Sergei Kinetics and catalysis 2014 / p. 688-694 : ill <https://doi.org/10.1134/S0023158414050036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The activation of heterogeneous Fenton-type catalyst Fe-MFI

Parkhomchuk, E.; Vanina, M.; **Preis, Sergei** Catalysis communications 2008 / 3, p. 381-385 : ill <https://www.sciencedirect.com/science/article/pii/S1566736707003238>

The cost evaluation of advanced oxidation processes in laboratory and pilot-scale experiments

Kritševskaja, Marina; Klauson, Deniss; Portjanskaja, Elina; Preis, Sergei Ozone : science & engineering 2011 / p. 211-223 <https://www.tandfonline.com/doi/full/10.1080/01919512.2011.554141>

The impact of pre-treatment with ozone on biodegradation of natural organic matter-case study

Preis, Sergei; Rožkov, Aleksei; Strömberg, A.; Karlsson, K. International Conference Oxidation Technologies for Water and Wastewater Treatment / Clausthaler Umwelttechnik-Institut GmbH 1996 / [6] p

The impact of pretreatment with ozone, chlorine dioxide and potassium permanganate on THM formation: laboratory case studies

Graham, Nigel; **Preis, Sergei;** Lambert, Stephan; Ma, Jun; Li, Guan Premier Colloque International de recherche sur "Les sous-produits de traitement et d'épuration des eaux", 29 et 30 September 1994, Palais des Congres du Futurscope a Poitiers (France) = First International Research Symposium on Water Treatment by-Products 1994 / p. 0-15 (9th pag.)
https://www.oieau.fr/eaudoc/system/files/documents/6/31346/31346_doc.pdf

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 aqueous photocatalytic oxidation of deicing agents

Klauson, Deniss; Preis, Sergei International journal of photoenergy 2007 / [7] p

The influence of iron ions on the aqueous photocatalytic oxidation of de-icing agents

Klauson, Deniss; Preis, Sergei Book of abstracts : the 1st European Conference on Environmental Applications of Advanced Oxidation Processes : Crete, Chania, September 7-9, 2006 2006 / p. 61

The influence of iron ions on the aqueous photocatalytic oxidation of de-icing agents

Klauson, Deniss; Preis, Sergei Proceedings of the 1st European Conference on Environmental Applications of Advanced Oxidation Processes : Chania, Greece, September 7-9, 2006 2006 / ? p

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 influence of titanium dioxide modifications on photocatalytic oxidation of lignin and humic acids

Portjanskaja, Elina; Stepanova, Kristina; Klauson, Deniss; Preis, Sergei Catalysis today 2009 / 1/2, p. 26-30 : ill
<https://www.sciencedirect.com/science/article/abs/pii/S0920586109000029>

The influence of titanium dioxide modifications on photocatalytic oxidation of lignin and humic acids

Portjanskaja, Elina; Stepanova, Kristina; Klauson, Deniss; Preis, Sergei The 5th European Meeting on Solar Chemistry and Photocatalysis : Environmental Applications (SPEA5) : 04-08 October 2008, Palermo, Italy : book of abstracts 2008 / p. PP3.37

The synthesis of sulphur and boron-containing titania photocatalysts and the evaluation of their photocatalytic activity

Klauson, Deniss; Portjanskaja, Elina; Budarnaja, Olga; Kritševskaja, Marina; Preis, Sergei Catalysis communications 2010 / 8, p. 715-720 <https://www.sciencedirect.com/science/article/pii/S156673671000035X>

Three-dimensional Co/Ni bimetallic organic frameworks for high-efficient catalytic ozonation of atrazine: Mechanism, effect parameters, and degradation pathways analysis

Ye, Guojie; Luo, Pei; Zhao, Yasi; Qiu, Guanglei; Hu, Yun; **Preis, Sergei;** Wei, Chaohai Chemosphere 2020 / art. 126767, 12 p
<https://doi.org/10.1016/j.chemosphere.2020.126767> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Transformation of natural and synthetic dyes in pulsed electric discharge in the granular steel bed

Shiyan, Ludmila; Lobanova, Galina; Yurmazova, Tatyana; Machekhina, Ksenia; **Preis, Sergei** Journal of electrostatics 2018 / p. 90-98 : ill <https://doi.org/10.1016/j.elstat.2018.10.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Preis, Sergei; Kritševskaja, Marina; Terentjeva, Jelena TiO₂-4 : The Fourth International Conference on TiO₂ Photocatalytic Purification and Treatment of Water and Air, Albuquerque, New Mexico, USA, May 24-28, 1999 : abstracts 1999 / p. 74
https://www.researchgate.net/publication/233627958_Treatment_of_Phenolic_and_Aromatic_Amino_Compounds_in_Polluted_Waters_by_Photoatlytical_Oxidation

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>

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

Uus tehnoloogia võimaldab tõhusamalt saasteaineid lagundada

Water delignification by advanced oxidation processes : homogeneous and heterogeneous Fenton and H₂O₂ photo-assisted reactions

Makhotkina, O.; **Preis, Sergei**; Parkhomchuk, E. Applied catalysis B : environmental 2008 / 3/4, p. 821-826 : ill <https://www.sciencedirect.com/science/article/pii/S0926337308002348>

Virus-bacterium interaction involved in element cycles in biological treatment of coking wastewater

Tan, Zhijie; Chen, Wenli; Wei, Xinyi; Qiu, Zhaoji; Zhuang, Weixiong; Zhang, Baoshan; Xie, Junting; Lin, Yuexia; Ren, Yuan; **Preis, Sergei**; Wei, Chaohai; Zhu, Shuang Bioresource technology 2025 / art. 131839 <https://doi.org/10.1016/j.biortech.2024.131839>

Visible light-assisted photocatalytic oxidation of organic pollutants using nitrogen-doped titania

Klauson, Deniss; Portjanskaja, Elina; **Preis, Sergei** Environmental chemistry letters 2008 / 1, p. 35-39

Värske veri TTÜs

Alam, Muhammad Mahtab; Kolde, Kristjan; Kuivjõgi, Kaja; Lung, Marti; Parnell, Kevin Ellis; **Preis, Sergei** Mente et Manu 2018 / lk. 47-49 : portr https://ttu.ee/public/m/mente-et-manu/MM_02_2018/mobile/index.html#p=6 http://www.ester.ee/record=b1242496*est <http://dea.digar.ee/publication/AKmenteetmanu> https://artiklid.elnet.ee/record=b2862662*est

Värvitööstuse heitvete osooni abil puhastamise uurimine

Kamenev, Sven; **Preis, Sergei**; Munter, Rein XXXII üliõpilaste teaduslik-tehnilise konverentsi ettekannete teesid : pühendatud V. I. Lenini 110. sünniaastapäevale : 16.-18. aprill 1980 1981 / lk. 128 https://www.ester.ee/record=b1322611*est

Абсорбция озона в водных растворах

Preis, Sergei; Munter, Rein; Siirde, Enno Тезисы докладов III Всесоюзного совещания по проблеме "Абсорбция газов", 5-7 мая 1987 года г. Таллин. Ч. 1 1987 / с. 49-50 https://www.ester.ee/record=b2164108*est

Ваше отношение к свободному посещению занятий

Mikkal, Valdek; Virkus, Ants; Roninson, Aleksander; **Preis, Sergei** Tallinna Polütehnik : TPI parteikomitee, rektoraadi, komsomolikomitee, ametiühingukomitee häälekandja 1988 / с. 4 https://www.ester.ee/record=b1254708*est <https://digikogu.taltech.ee/et/Item/1585c5b7-0b81-4783-9f6a-375b43d9d960>

Влияние pH на окисление озоном замещенных ароматических соединений в водной среде

Munter, Rein; **Preis, Sergei**; Kamenev, Sven; Siirde, Enno; Loooris, Hilja Химия и технология воды : научно-технический ежемесячный журнал 1984 / с. 139-141 : ил., табл https://www.ester.ee/record=b1833703*est

Влияние УФ-облучения на озонирование водных растворов органических соединений и сточных вод

Preis, Sergei; Veresina, E.; Siirde, Enno; Munter, Rein Журнал прикладной химии 1988 / с. 555-559 : илл https://www.ester.ee/record=b1182398*est

Все познается в сравнении

Preis, Sergei Молодежь Эстонии 1987 / с. [?] https://www.ester.ee/record=b1072621*est

Гидродинамика газожидкостного потока в прямоточном смесителе озона с водой

Preis, Sergei; Munter, Rein; Siirde, Enno Процессы и аппараты химической технологии. 2 1988 / с. 20-32

Использование химического потребления кислорода (ХПК) в качестве кинетического параметра озонирования сточных вод

Preis, Sergei; Munter, Rein; Siirde, Enno Процессы и аппараты химической технологии. 1 1987 / с. 76-83

Исследование озонирования водного раствора П-толуидина

Munter, Rein; **Preis, Sergei** 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. 189 https://www.ester.ee/record=b1322629*est

Массообмен в прямоточном абсорбционном аппарате

Preis, Sergei; Munter, Rein; Siirde, Enno Tallinna Tehnikaülikooli Toimetised 1990 / lk. 23-33: ill

Моделирование противоточного барботажного реактора для озонирования сточных вод

Munter, Rein; **Preis, Sergei**; Sarv, Laur Процессы и аппараты химической технологии. 2 1988 / с. 33-43

Ньютоном можеть ты не быть ... /Об изучении физики и математики в ТПИ/

Roninson, Aleksander Tallinna Polütehnik : TPI parteikomitee, rektoraadi, komsomolikomitee, ametiühingukomitee häälekandja 1981 / с. 1 https://www.ester.ee/record=b1254708*est <https://digikogu.taltech.ee/et/Item/53b52a4f-772d-4263-9244-050dc08732b1>

О растворимости озона в водных растворах

Kamenev, Sven; Preis, Sergei; Munter, Rein; Siirde, Enno Тезисы VII всесоюзного симпозиума по современным проблемам прогнозирования, контроля качества воды водоемов и озонирования, Таллин 19-21 ноября 1985 года. IV секция, Озонирование воды 1985 / с. 20-23 : ил https://www.ester.ee/record=b1254834*est

Об определении полихлорированных бифенилов в воде озера Юлемисте

Tammeruu, Ants; Preis, Sergei Сборник тезисы докладов конференции "Проблемы санитарной охраны водоемов", г. Пермь, 13-14 окт. 1988 г. 1988 / с. 9-10

Озонирование промышленных сточных вод, содержащих трудноокисляемые органические вещества : автореферат ... кандидата технических наук (05.23.04)

Preis, Sergei 1988 http://www.ester.ee/record=b1527422*est

Озонирование сточных вод анилино-красочной промышленности

Munter, Rein; Kamenev, Sven; Preis, Sergei; Siirde, Enno; Hudak, V.I. Неустановившиеся процессы в системах водоснабжения и водоотведения 1985 / с. 31-41

Озонирование сточных вод с одновременным УФ-облучением

Preis, Sergei; Siirde, Enno Проблемы промышленной экологии 1988 / с. 16-22

Озонирование трудноокисляемых органических веществ в воде при различных значениях pH среды

Preis, Sergei; Koel, M. Процессы и аппараты химической технологии. 1 1987 / с. 84-93

Проблемы промышленной экологии

Pikkov, Lui; Kaps, Tiit; Sillajõe, Aadu; Vares, Toomas; Mölder, Heino; Munter, Rein; Looits, Hilja; Preis, Sergei; Siirde, Enno; Kann, Aino; Mandel, Mihkel; Liebert, Tiit; Tauts, Olev; Täht, Riina; Tedersoo, Erge; Piiraja, Eduard; Piir, E.; Friedenthal, Margus; Pappel, Kaie; Köstner, Ado; Palm, Toivo; Jagomägi, A.; Holstinina, Natalja; Kuusik, Rein, keemik; Triikkel, Andres; Veiderma, Mihkel; Metsik, Rein; Merendi, Jüri; Hallik, A.; Talimets, Ellen; Viisimaa, Ludmilla; Hödrejärvi, Helvi; Pets, Lydia; Vaganov, Peter; Ott, Roman; Lepane, Viia; Vaarmann, Aini; Palm, Toivo; Paal, Leopold 1988 https://www.ester.ee/record=b1222151*est

Процессы и аппараты химической технологии

Feldmann, Liia; Bakalova, M.O.; Kallas, Juha; Reile, Rein; Viiraja, Andres; Preis, Sergei; Munter, Rein; Siirde, Enno; Sarv, Laur; Pikkov, Lui; Veressina, Jelena 1988 https://www.ester.ee/record=b2191189*est

Процессы и аппараты химической технологии

Feldmann, Liia; Pikkov, Lui; Viiraja, Andres; Roosimölder, Lembit; Munter, Rein; Sarv, Laur; Joarand, Heiki; Kallas, Juha; Kamenev, Inna; Preis, Sergei; Siirde, Enno; Koel, Mihkel; Tearo, Jelena; Looits, Hilja; Mikkal, Valdek; Kamenev, Sven; Bakalova, M.O.; Orupöld, T.; Reile, Rein; Uus, Endel; Tearo, Eduard 1987 https://www.ester.ee/record=b2191192*est

Роль предварительного озонирования при очистке воды озера Юлемисте

Preis, Sergei; Siirde, Enno; Пылдоя Л.И. Химия и технология воды : научно-технический ежемесячный журнал 1991 / с. 736-739: ил

Санитарная техника

Tibar, Harri; Veski, A.; Karu, Jaan; Suurkask, Valdu; Hääl, Maire-Liis; Säärekonno, Jüri; Bomze, Z.; Munter, Rein; Kamenev, Sven; Preis, Sergei; Siirde, Enno; Hudak, V.I.; Pikkov, Lui; Kask, Endel; Koppel, Tiit; Ruubel, R.; Daniel, Eghert; Liiv, Uno; Sarv, Laur; Ainola, Leo; Ruustal, Endel; Koppel, Tiit; Toomet, Madis 1985 https://www.ester.ee/record=b1255730*est

Скорость разложения озона в водных растворах с органическими примесями

Preis, Sergei VI Республиканская конференция молодых ученых-химиков : тезисы докладов 1985 / с. 56 https://www.ester.ee/record=b1232928*est

Скорость реакции озона с щавелевой кислотой и органическими соединениями в биологически очищенной сточной воде

Preis, Sergei; Munter, Rein; Siirde, Enno Тезисы VII всесоюзного симпозиума по современным проблемам прогнозирования, контроля качества воды водоемов и озонирования, Таллин 19-21 ноября 1985 года. IV секция, Озонирование воды 1985 / с. 23-27 : ил https://www.ester.ee/record=b1254834*est

Ступенчатая обработка сточных вод анилинокрасочной промышленности известью и озоном

Munter, Rein; Siirde, Enno; Kamenev, Sven; Preis, Sergei Химия и технология воды : научно-технический ежемесячный журнал 1987 / с. 59-60, ил https://www.ester.ee/record=b1833703*est

Ступенчатая обработка сточных вод известью и озоном

Munter, Rein; Kamenev, Sven; Preis, Sergei; Siirde, Enno Тезисы VII всесоюзного симпозиума по современным проблемам прогнозирования, контроля качества воды водоемов и озонирования, Таллин 19-21 ноября 1985 года. IV секция,

Озонирование воды 1985 / с. 47-50 : ил https://www.ester.ee/record=b1254834*est

Хемосорбция в системе озон-вода в прямоточном константном аппарате

Siirde, Enno; Preis, Sergei Журнал прикладной химии 1989 / с. 1989-1994 : илл https://www.ester.ee/record=b1182398*est

Химическое потребление кислорода (ХПК) - основа исследования, разработки и контроля процесса озонирования сточных вод

Preis, Sergei; Siirde, Enno Tallinna Tehnikaülikooli Toimetised 1990 / lk. 34-40: ill

ХПК как кинетический показатель процессов озонирования водных растворов и сточных вод

Preis, Sergei; Munter, Rein; Siirde, Enno Журнал прикладной химии 1987 / с. 1524-1529 https://www.ester.ee/record=b1182398*est

Электрохимическая очистка хлорат-содержащих сточных вод

Kamenev, Sven; Preis, Sergei; Siirde, Enno Химия и технология воды : научно-технический ежемесячный журнал 1991 / с. 166-168: ил

基于脉冲电晕放电的砷化物分解与资源化

Wang, Yixian; Ma, Jingde; Ye, Guojie; **Preis, Sergei** 环境科学学报 = Acta Scientiae Circumstantiae 2019 / p. 2964–2971

<https://doi.org/10.13671/j.hjkxb.2019.0177> http://www.actasc.cn/hjkxb/ch/reader/view_abstract.aspx?file_no=20190302002&flag=1 [Journal metrics at Scopus](#) [Article at Scopus](#)