

**Acquisition of O<sub>2</sub> 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

**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 Cd<sup>2+</sup> 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 photocatalytic oxidation of amoxicillin**

**Klauson, 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

**Aqueous photocatalytic oxidation of amoxicillin**

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

**Aqueous photocatalytic oxidation of doxycycline**

**Klauson, Deniss; Poljakova, Alissa; Pronina, Natalja; Kritševskaja, Marina; Moiseev, Anna; Dedova, Tatjana; Preis, Sergei** Journal of advanced oxidation technologies 2013 / p. 234-243

**Aqueous photocatalytic oxidation of doxycycline**

**Kritševskaja, Marina; Klauson, 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 TiO<sub>2</sub>**

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

**Aqueous photocatalytic oxidation of lignin and humic substances with supported TiO<sub>2</sub>**

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/?479> [https://www.ester.ee/record=b2595245\\*est](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

**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](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>

**Catalytic TiO<sub>2</sub> 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>

**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 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

**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>

**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](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://fmttk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](http://fmttk.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 õhupuusti 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 Cd<sup>2+</sup> 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 aromaats[te] amiinoühendite 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](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 CCl<sub>4</sub>, CHCl<sub>3</sub> and CH<sub>2</sub>Cl<sub>2</sub> 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](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**

Jõks, 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**

**Jõks, 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 TiO<sub>2</sub> 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; Jõks, Svetlana; Katšina, Anna; Preis, Sergei** Photochemical & photobiological science 2009 / 5, p. 600-603 : ill

**Gas-phase photocatalytic oxidation of acrylonitrile**

**Kritševskaja, Marina;** Jõks, 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 TiO<sub>2</sub> : continuous flow and transient study**

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

**Gas-phase photocatalytic oxidation of styrene in a simple tubular TiO<sub>2</sub> 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

### 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 TiO<sub>2</sub>-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

### 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 klaasitäis 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\\_klaasitäis\\_sooja\\_kraanivett\\_võib\\_teha\\_tervisele\\_kahju](https://dea.digar.ee/article/maaleht/2024/04/04/10.1_Ka_klaasitäis_sooja_kraanivett_võib_teha_tervisele_kahju)

### Kas petrooleum või antifriis? Lennukikütuste jäätumisvastaste ainete fotokatalüütiline oksüdatsioon

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

#### **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; **Käard, Arvo;** Vilu, Raivo Water research 1999 / no. 5, [12] p.: ill

#### **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 2023  
<https://doi.org/10.1007/s13399-023-04686-9>

#### **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

#### **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](https://www.ester.ee/record=b5309277*est)

#### **Naftaproduktide fotokatalüütiline fotooksüdatsioon**

**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](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; Viiraja, 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; Viirja, Andres; Kamenev, Inna; Järvik, Oliver; Kulik, Niina; Veressina, 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 2023 / art. 148488 <https://doi.org/10.1016/j.cej.2023.148488>

**Oxidation by-products in photocatalytic 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 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.cej.2022.135602> [Journal metrics at Scopus](#) [Article at 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://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.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.eester.ee/record=b5499812\\*est](https://www.eester.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; Križevskaja, 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://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**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  
<https://doi.org/10.1016/j.elstat.2020.103420> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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://fntdk.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; 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](#)

**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](#)

**pH and oxidation by-products in photocatalytic treatment**

**Preis, Sergei; Križevskaja, 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 photocatalytical 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

#### **Photocatalytic oxidation of 1,1-dimethyl hydrazine vapours on TiO<sub>2</sub> : 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 TiO<sub>2</sub> 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 TiO<sub>2</sub>-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](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](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

#### **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,** Chao Hai Journal of hazardous materials 2023 / art. 130802, 10 p. : ill <https://doi.org/10.1016/j.jhazmat.2023.130802>

#### **Pinch analysis helps save energy in an alcohol distillery in Estonia**

**Kamenev, Inna; Klemesš, J.; Mikkal, Valdek; Preis, Sergei; Tali, Enn; Valdlo, K.; Viiraja, 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.; Viiraja, 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](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](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>

#### **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](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; Majevskaia, Nadežda** Tehnikaülikool 1992 / 11. juuni, lk. 4-5

#### **Pulsed corona discharge : the role of ozone and hydroxyl radical in aqueous pollutant oxidation**

**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](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

### **Põhjaveet saastavate ainete fotokatalüütiline oksüdatsioon**

Klauson, Deniss; **Portjanskaja, Elina**; **Katšina, Anna**; **Kritševskaja, Marina**; **Preis, Sergei**; **Kallas, Juha** Keskkonnatehnika 2006 / 3, lk. 15-17

### **Raskesti lagundatavate ühenditega reostatud vee ja õhu koospuhastamine**

**Preis, Sergei**; **Kamenev, Inna** Keskkonnatehnika 2001 / 6, lk. 13-16

### **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, Chaohai 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

### **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**

**Klauson, Deniss**; **Budarnaja, Olga**; **Stepanova, Kristina**; **Kritševskaja, Marina**; **Dedova, Tatjana**; **Käkinen, Aleksandr**; **Preis, Sergei** Kinetics and catalysis 2014 / p. 47-55 : ill

### **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

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

Pan, Jianxin; Wei, Chaohai; 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

**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.ester.ee/record=b1226072*est) [https://www.akadeemia.ee/wp-content/uploads/2020/08/ev\\_preemaid\\_2020\\_veebi1.pdf](https://www.akadeemia.ee/wp-content/uploads/2020/08/ev_preemaid_2020_veebi1.pdf)

**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.ces.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

**TalTechis leiutati viis õhupuhasteid parendada**

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

**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

**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 Futurescope a Poitiers (France) = First International Research Symposium on Water Treatment by-Products 1994 / p. 0-15 (9th pag.)

**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

**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** TiO<sub>2</sub>-4 : The Fourth International Conference on TiO<sub>2</sub> Photocatalytic Purification and Treatment of Water and Air, Albuquerque, New Mexico, USA, May 24-28, 1999 : abstracts 1999 / p. 74

**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

**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**

Mente et Manu 2021 / lk. 13 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

## **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>

## **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](https://ttu.ee/public/m/mente-et-manu/MM_02_2018/mobile/index.html#p=6) [http://www.ester.ee/record=b1242496\\*est](http://www.ester.ee/record=b1242496*est)

<http://dea.digar.ee/publication/AKmenteetmanu>

## **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](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](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://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](https://www.ester.ee/record=b1833703*est)

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

**Preis, Sergei**; Veresinina, E.; Siirde, Enno; Munter, Rein Журнал прикладной химии 1988 / с. 555-559 : ил

[https://www.ester.ee/record=b1182398\\*est](https://www.ester.ee/record=b1182398*est)

## **Все познается в сравнении**

**Preis, Sergei** Молодежь Эстонии 1987 / с. [?] [https://www.ester.ee/record=b1072621\\*est](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](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 можешь ты не быть ... /Об изучении физики и математики в ТПИ/**

Roninson, Aleksander Tallinna Polütehnik : TPI parteikomitee, rektoraadi, komсомolikomitee, ametiühingukomitee häälekandja

1981 / с. 1 [https://www.ester.ee/record=b1254708\\*est](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](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](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; Looerts, Hilja; Preis, Sergei; Siirde, Enno; Kann, Aino; Mandel, Mihkel; Liebert, Tiiu; 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](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; Veressinina, Jelena** 1988 [https://www.ester.ee/record=b2191189\\*est](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; Looerts, Hilja; Mikkal, Valdek; Kamenev, Sven; Bakalova, M.O.; Orupõld, T.; Reile, Rein; Uus, Endel; Tearo, Eduard** 1987 [https://www.ester.ee/record=b2191192\\*est](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](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](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](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](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](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 : ил [https://www.ester.ee/record=b1182398\\*est](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](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有机污染物降解与净化**

**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](http://www.actasc.cn/hjkxb/ch/reader/view_abstract.aspx?file_no=20190302002&flag=1) [Journal metrics at Scopus](#) [Article at Scopus](#)