

**Activated persulfate and hydrogen peroxide treatment of highly contaminated water matrices: a comparative study**  
Dulova, Niina; Kattel, Eneliis; Trapido, Marina International journal of environmental science and development 2020 / p. 549–554  
<https://doi.org/10.18178/ijesd.2020.11.12.1306> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Activated persulfate processes for degradation of endocrine disrupting compound nonylphenol in aqueous matrices**  
[Online resource]

Dulova, Niina; Balpreet Kaur; Kattel, Eneliis; Trapido, Marina 19th European Meeting on Environmental Chemistry : 3 - 6 december 2018 Royat - France : programm book 2018 / p. 34  
[https://emec19.sciencesconf.org/data/pages/EMEC\\_19\\_Book\\_of\\_abstract.pdf](https://emec19.sciencesconf.org/data/pages/EMEC_19_Book_of_abstract.pdf)

**Advanced chemical oxidation with pre-coagulation for treatment of paint manufacturing wastewater**

Kattel, Eneliis; Viisimaa, Marika; Klauson, Deniss; Trapido, Marina; Dulova, Niina Proceedings of the International Conference on Advances In Applied Science and Environmental Engineering - ASEE 2014 2014 / p. 38-43 : ill

**Advanced oxidation of dexamethasone by activated peroxo compounds in water matrices : A comparative study**

Onga, Liina; Dulova, Niina; Kattel-Salusoo, Eneliis Water 2025 / art. 2303 <https://doi.org/10.3390/w17152303>  
<http://www.mdpi.com/2073-4441/17/15/2303>

**Advanced oxidation processes for sulfonamide antibiotic sulfamethizole degradation : Process applicability study at ppm level and scale-down to ppb level**

Klauson, Deniss; Romero Sarcos, Natalja; Kritševskaja, Marina; Kattel, Eneliis; Dulova, Niina; Dedova, Tatjana; Trapido, Marina Journal of environmental chemical engineering 2019 / art. 103287, 8 p. : ill <https://doi.org/10.1016/j.jece.2019.103287> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Advanced oxidation technologies : sustainable solution for removal of emerging contaminants from water**

Bolobajev, Juri; Trapido, Marina; Epold, Irina; Dulova, Niina TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

**Application of activated persulfate processes for the treatment of water and high-strength wastewater = Aktiveeritud persulfaadi protsesside kasutamine vee ja raskesti saastatud reovee puhastamiseks**

Kattel, Eneliis 2018 <https://digi.lib.ttu.ee/i/?9958> [https://www.ester.ee/record=b5054228\\*est](https://www.ester.ee/record=b5054228*est)

**Application of advanced oxidation technologies for propoxycarbazone-sodium degradation**

Dulov, Aleksandr; Dulova, Niina; Veressinina, Jelena; Trapido, Marina 20th IOA World Congress - 6th IUVA World Congress : Ozone and UV Leading-Edge Science and Technologies : Paris, France, 23-27 May 2011 : proceedings 2011 / p. I.6.15-1 - I.6.15-8

**Application of different techniques for activation of H<sub>2</sub>O<sub>2</sub>/Fe<sup>3+</sup> system : a comparative study**

Bolobajev, Juri; Trapido, Marina; Dulova, Niina Journal of advanced oxidation technologies 2015 / p. 347-352 : ill  
<https://doi.org/10.1515/jaots-2015-0222> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Application of Fenton's reaction for food-processing wastewater treatment**

Dulova, Niina; Trapido, Marina Journal of advanced oxidation technologies 2011 / p. 9-16

**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>

**Application of ozonation, UV photolysis, Fenton treatment and other related processes for degradation of ibuprofen and sulfamethoxazole in different aqueous matrices**

Epold, Irina; Dulova, Niina; Veressinina, Jelena; Trapido, Marina Journal of advanced oxidation technologies 2012 / p. 354-364 : ill  
[https://www.researchgate.net/publication/263695119\\_Application\\_of\\_Ozonation\\_UV\\_Photosynthesis\\_Fenton\\_Treatment\\_and\\_other\\_Related\\_Processes\\_for\\_Degradation\\_of\\_Ibuprofen\\_and\\_Sulfamethoxazole\\_in\\_Different\\_Aqueous\\_Matrices](https://www.researchgate.net/publication/263695119_Application_of_Ozonation_UV_Photosynthesis_Fenton_Treatment_and_other_Related_Processes_for_Degradation_of_Ibuprofen_and_Sulfamethoxazole_in_Different_Aqueous_Matrices)

**Bio-recalcitrant pollutants removal from wastewater with combination of the Fenton treatment and biological oxidation**

Trapido, Marina; Tenno, Taavo; Goi, Anna; Dulova, Niina; Kattel, Eneliis; Klauson, Deniss; Klein, Kati; Tenno, Toomas; Viisimaa, Marika Journal of water process engineering 2017 / p. 277-282 : ill <https://doi.org/10.1016/j.jwpe.2017.02.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Bio-recalcitrant pollutants removal from wastewater with combination of the Fenton treatment and biooxidation**

Trapido, Marina; Tenno, Taavo; Goi, Anna; Dulova, Niina; Klauson, Deniss; Kattel, Eneliis; Viisimaa, Marika; Kivi, Arthur; Klein, Kati 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 24 : ill  
[http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts\\_Book\\_EcoBalt\\_2016.pdf](http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf)

**Bio-recalcitrant pollutants removal from wastewater with combination of the Fenton treatment and biooxidation**

Trapido, Marina; Tenno, Taavo; Goi, Anna; Dulova, Niina; Kattel, Eneliis; Kivi, Arthur; Klauson, Deniss; Klein, Kati; Viisimaa,

**Marika** European Conference on Environmental Applications of Advanced Oxidation Processes : 21-24 October 2015, Athens, Greece : conference program and book of abstracts 2015 / p. 111 : ill

**Bio-recalcitrant pollutants removal from wastewater with combination of the Fenton treatment and biooxidation**  
**Trapido, Marina; Tenno, Taavo; Goi, Anna; Dulova, Niina; Kattel, Eneliis; Kivi, Arthur; Klauson, Deniss; Klein, Kati; Viisimaa, Marika** European Conference on Environmental Applications of Advanced Oxidation Processes : 21-24 October 2015, Athens, Greece : book of proceedings 2015 / [3] p. : ill

**Catalytic degradation of picric acid by heterogeneous Fenton-based processes**  
**Dulova, Niina; Trapido, Marina; Dulov, Aleksandr** Environmental technology 2011 / p. 439-446 : ill

**Combined methods for the treatment of a typical hardwood soaking basin wastewater from plywood industry**  
**Klauson, Deniss; Klein, Kati; Kivi, Arthur; Kattel, Eneliis; Viisimaa, Marika; Dulova, Niina; Velling, Siiri; Trapido, Marina; Tenno, Taavo** International journal of environmental science and technology 2015 / p. 3575-3586 : ill <https://doi.org/10.1007/s13762-015-0777-2>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Combined physicochemical treatment of textile and mixed industrial wastewater**  
**Dulov, Aleksandr; Dulova, Niina; Trapido, Marina** Ozone : science & engineering 2011 / p. 285-293 : ill

**Combined physicochemical treatment of textile and mixed industrial wastewater**  
**Dulov, Aleksandr; Dulova, Niina; Trapido, Marina** E-proceedings of International Conference of IOA-EA3G : Ozone and Related Oxidants for Emerging Pollutants of Concern to the Water and the Environment : April 28-30, 2010, Geneva, Switzerland 2010 / p. 2.6-1 - 2.6-12

**Combined treatment of pyrogenic wastewater from oil shale retorting**  
**Klein, Kati; Kattel, Eneliis; Goi, Anna; Kivi, Arthur; Dulova, Niina; Saluste, Alar; Zekker, Ivar; Trapido, Marina; Tenno, Taavo** Oil shale 2017 / p. 82-96 : ill <https://doi.org/10.3176/oil.2017.1.06> [https://artiklid.elnet.ee/record=b2816468\\*est](https://artiklid.elnet.ee/record=b2816468*est) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A comparative study of losartan photodegradation : activated persulfate versus hydrogen peroxide**  
**Balpreet Kaur; Eha, Kaie; Dulova, Niina** EMEC20 : 20th European Meeting on Environmental Chemistry (EMEC-20), Lodz, Poland, 2-5 December 2019 : Book of Abstracts 2019 / p. 77 [https://emec20.p.lodz.pl/files/Book\\_of\\_Abstracts\\_EMEC20.pdf](https://emec20.p.lodz.pl/files/Book_of_Abstracts_EMEC20.pdf)

**A comparative study of losartan photodegradation : activated persulfate versus hydrogen peroxide**  
**Balpreet Kaur; Eha, Kaie; Dulova, Niina** The 20th European Meeting on Environmental Chemistry : 2-5 December 2019 Lodz, Poland : book of abstract 2019 / p. 77 : ill [https://emec20.p.lodz.pl/files/Book\\_of\\_Abstracts\\_EMEC20.pdf](https://emec20.p.lodz.pl/files/Book_of_Abstracts_EMEC20.pdf)

**Comparison of different advanced oxidation processes for sulphamethizole degradation : process applicability study at mg L<sup>-1</sup> level and scale-down to µg L<sup>-1</sup> level**  
**Klauson, Deniss; Grimm, F.; Pronina, Natalja; Viisimaa, Marika; Dulova, Niina** 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 401 [https://photo-catalysis.org/events/901/photo/book\\_of\\_proceedings\\_eaaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf)

**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://fntdk.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 ceftriaxone in aqueous solution by heterogeneous photo-activated persulfate system [Online resource]**  
**Kattel, Eneliis; Balpreet Kaur; Trapido, Marina; Dulova, Niina** EMEC18 : Chemistry Towards an Infinite Environment, 18th European Meeting on Environmental Chemistry : book of abstracts 2017 / p. 108 : ill [http://www.europeanace.com/file\\_download/82](http://www.europeanace.com/file_download/82)

**Degradation of ceftriaxone in water by heterogeneously activated persulfate [Online resource]**  
**Kuntus, Liina; Dulova, Niina; Kattel, Eneliis** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fntdk.ut.ee/teesid-2019/>

**Degradation of diclofenac in aqueous solution by homogeneous and heterogeneous photolysis**  
**Epold, Irina; Dulova, Niina; Trapido, Marina** Journal of environmental engineering & ecological science 2012 / [8] p. : ill

[https://www.researchgate.net/publication/269782174\\_Degradation\\_of\\_diclofenac\\_in\\_aqueous\\_solution\\_by\\_homogeneous\\_and\\_heterogeneous\\_photolysis](https://www.researchgate.net/publication/269782174_Degradation_of_diclofenac_in_aqueous_solution_by_homogeneous_and_heterogeneous_photolysis)

**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> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**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>

**Degradation of levofloxacin in aqueous solution by ferrous ion-activated hydrogen peroxide, persulfate and combined hydrogen peroxide/persulfate system**

**Epold, Irina; Trapido, Marina; Dulova, Niina** 15th European Meeting on Environmental Chemistry : 3-6 December 2014, Brno, Czech Republic : book of abstracts 2014 / p. 61

**Degradation of levofloxacin in aqueous solutions by Fenton, ferrous ion-activated persulfate and combined Fenton/persulfate systems**

**Epold, Irina; Trapido, Marina; Dulova, Niina** Chemical engineering journal 2015 / p. 452-462 : ill

<https://doi.org/10.1016/j.cej.2015.05.054> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Degradation of naproxen by ferrous ion-activated hydrogen peroxide, persulfate and combined hydrogen peroxide/persulfate processes : the effect of citric acid addition**

**Dulova, Niina; Kattel, Eneliis; Trapido, Marina** Chemical engineering journal 2017 / p. 254-263 : ill

<https://doi.org/10.1016/j.cej.2016.07.006> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Degradation of naproxen in aqueous solution by  $\text{H}_2\text{O}_2$ ,  $\text{S}_2\text{O}_8^{2-}$  and combined  $\text{H}_2\text{O}_2/\text{S}_2\text{O}_8^{2-}$  activated with citric acid chelated  $\text{Fe}^{2+}$**

**Dulova, Niina; Epold, Irina; Trapido, Marina** European Conference on Environmental Applications of Advanced Oxidation Processes : 21-24 October 2015, Athens, Greece : book of proceedings 2015 / [1] p. : ill

**Degradation of naproxen in aqueous solution by  $\text{H}_2\text{O}_2$ ,  $\text{S}_2\text{O}_8^{2-}$  and combined  $\text{H}_2\text{O}_2/\text{S}_2\text{O}_8^{2-}$  activated with citric acid chelated  $\text{Fe}^{2+}$**

**Dulova, Niina; Epold, Irina; Trapido, Marina** European Conference on Environmental Applications of Advanced Oxidation Processes : 21-24 October 2015, Athens, Greece : conference program and book of abstracts 2015 / p. 88 : ill

**Degradation of pharmaceuticals by advanced oxidation technologies in aqueous matrices = Ravimite lagundamine vesikeskkonnas süvaoksüdatsioonitehnoloogiatega**

**Epold, Irina** 2015 <https://digi.lib.ttu.ee/i/?3698> [https://www.ester.ee/record=b4513257\\*est](https://www.ester.ee/record=b4513257*est)

**Degradation of propoxycarbazone-sodium with advanced oxidation processes**

**Dulov, Aleksandr; Dulova, Niina; Veressinina, Jelena; Trapido, Marina** Water science & technology : water supply 2011 / p. 129-134

**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://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>

**Development of photo-induced persulfate-based processes for efficient application in water treatment = Foto-indutseeritud persulfaadi-põhiste protsesside väljatöötamine efektiivseks rakendamiseks vee puhastamisel**

**Balpreet Kaur** 2020 <https://digikogu.taltech.ee/et/Item/f681dc13-dc11-4ad6-b728-aa232dfd8c59>

**Different activation methods of H<sub>2</sub>O<sub>2</sub>/Fe(III) for degradation of diuron**

**Bolobajev, Juri; Dulova, Niina; Trapido, Marina** 15th European Meeting on Environmental Chemistry : 3-6 December 2014, Brno, Czech Republic : book of abstracts 2014 / p. 22

**Eesti teadlaste loodud meetod aitab puhastada vett antibiootikumijääkidest [Võrguväljaanne]**

**Dulova, Niina** novaator.err.ee 2020 / fot [teadlaste loodud meetod aitab puhastada vett antibiootikumijääkidest](#)

**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://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](http://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Emerging micropollutants in water/wastewater : growing demand on removal technologies**

**Trapido, Marina; Epold, Irina; Bolobajev, Juri; Dulova, Niina** Environmental science and pollution research 2014 / p. 12217-

12222 : ill <https://doi.org/10.1007/s11356-014-3020-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Emerging micropollutants in water/wastewater : growing demand on removal technologies**

**Trapido, Marina; Dulova, Niina; Epold, Irina; Bolobajev, Juri** Proceedings of 3rd European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP3) : Almería, Spain, October 27-30, 2013 2013 / p. P171-1 - P171-3

**Fe<sup>2+</sup>-activated persulfate process for landfill leachate treatment : removal of organic load, phenolic micropollutants and nitrogen**

**Kattel, Eneliis; Dulova, Niina** 15th European Meeting on Environmental Chemistry : 3-6 December 2014, Brno, Czech Republic : book of abstracts 2014 / p. 24

**Fenton-based processes in different combinations for food-processing wastewater treatment**

**Dulova, Niina; Trapido, Marina** E-proceedings of International Conference of IOA-EA3G : Ozone and Related Oxidants for Emerging Pollutants of Concern to the Water and the Environment : April 28-30, 2010, Geneva, Switzerland 2010 / p. 2.5-1 - 2.5-12

**Fenton-protsessi efektiivsus tööstusreovete puhastamisel**

**Trapido, Marina; Dulova, Niina; Goi, Anna; Veressinina, Jelena; Munter, Rein** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 76

**Ferrous ion-activated persulphate process for landfill leachate treatment : removal of organic load, phenolic micropollutants and nitrogen**

**Kattel, Eneliis; Dulova, Niina** Environmental technology 2017 / p. 1223-1231 : ill <https://doi.org/10.1080/09593330.2016.1221472> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Finding the best fitting solutions for wastewater management in Baltic Sea Region villages (VillageWaters) [Online resource]**

**Dulova, Niina;** Räsänen, Kati; Vorne, V. 19th European Meeting on Environmental Chemistry : 3 - 6 december 2018 Royat - France : programm book 2018 / p. 109 : ill [https://emec19.sciencesconf.org/data/pages/EMEC\\_19\\_Book\\_of\\_abstract.pdf](https://emec19.sciencesconf.org/data/pages/EMEC_19_Book_of_abstract.pdf)

**Hazardous waste landfill leachate treatment by combined chemical and biological techniques**

**Kattel, Eneliis;** Kivi, Arthur; Klein, Kati; Tenno, Taavo; **Dulova, Niina; Trapido, Marina** Desalination and water treatment 2016 / p. 13236-13245 : ill <https://doi.org/10.1080/19443994.2015.1057539> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Individual and simultaneous degradation of sulfamethoxazole and trimethoprim by ozone, ozone/hydrogen peroxide and ozone/persulfate processes: A comparative study**

**Adil, Sawaira; Maryam, Bareera; Kim, Eun-Ju; Dulova, Niina** Environmental research 2020 / art. 109889, 10 p

<https://doi.org/10.1016/j.envres.2020.109889> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Industrial wastewater treatment by radical-based advanced oxidation technologies : Fenton treatment versus ferrous ion-activated persulfate process**

**Dulova, Niina; Kattel, Eneliis; Viisimaa, Marika; Trapido, Marina** 3rd International Congress on Water, Waste and Energy Management : Rome, Italy, July 18-20, 2016 : abstracts book 2016 / p. 121-122

**Insights into nonylphenol degradation by UV-activated persulfate and persulfate/hydrogen peroxide systems in aqueous matrices: a comparative study**

**Balpreet Kaur; Kattel, Eneliis; Dulova, Niina** Environmental science and pollution research 2020 / p. 22499–22510

<https://doi.org/10.1007/s11356-020-08886-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



**Kohalike omavalitsuste ringmajanduslike tegevuste hetkeseisu analüüs ja teekaartide koostamine : analüüsi aruanne**  
Hurt, Ulrika; Piirimäe, Kristjan; Tuisk, Tarmo; Voronova, Viktoria; Dulova, Niina; Merisaar, Jaana; Kull, Margit; Niidu, Allan; Klõga, Marija; Pachel, Karin; Küttim, Merle 2023 <https://doi.org/10.11590/taltech.municipalities.circular.economy.roadmaps.report.2023>

**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 dexamethasone by photochemical processes in aqueous matrices : a comparative study**

Onga, Liina; Kattel-Salusoo, Eneliis; Dulova, Niina GEET International Conference : Green Energy and Environmental Technology : Abstract Book 2022 <https://scik.eu/Rome2022/GrAbBo.php>

**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 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 emerging micropollutant acesulfame in aqueous matrices by UVA-induced H<sub>2</sub>O<sub>2</sub>/Fe<sup>2+</sup> and S<sub>2</sub>O<sub>8</sub><sup>2-</sup>/Fe<sup>2+</sup> processes**

Kattel, Eneliis; Trapido, Marina; Dulova, Niina Chemosphere 2017 / p. 528-536 : ill  
<https://doi.org/10.1016/j.chemosphere.2016.12.104> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Oxidative degradation of levofloxacin in aqueous solution by S<sub>2</sub>O<sub>8</sub><sup>2-</sup>/Fe<sup>2+</sup>, S<sub>2</sub>O<sub>8</sub><sup>2-</sup>/H<sub>2</sub>O<sub>2</sub> and S<sub>2</sub>O<sub>8</sub><sup>2-</sup>/OH<sup>-</sup> processes : a comparative study**

Epold, Irina; Dulova, Niina Journal of environmental chemical engineering 2015 / p. 1207-1214 : ill  
<https://doi.org/10.1016/j.jece.2015.04.019> Journal metrics at Scopus Article at Scopus

**Oxidative degradation of the artificial sweetener acesulfame in aqueous matrices by UVA-induced H<sub>2</sub>O<sub>2</sub>/Fe<sup>2+</sup> and S<sub>2</sub>O<sub>8</sub><sup>2-</sup>/Fe<sup>2+</sup> processes [Online resource]**

Kattel, Eneliis; Trapido, Marina; Dulova, Niina 1st International Conference on Sustainable Water Processing : Sitges, Spain, September 11-14, 2016 : programme 2016 / p. OA2.3 <http://www.sustainablewaterprocessing.com/>

**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>

**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.eu/abstracts-2022/)

**Persulfate-based photodegradation of a beta-lactam antibiotic amoxicillin in aqueous matrices**

Kattel, Eneliis; Balpreet Kaur; Trapido, Marina; Dulova, Niina 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 407 [https://photo-catalysis.org/events/901/photo/book\\_of\\_proceedings\\_eaaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf)

**Persulfate-based photodegradation of a beta-lactam antibiotic amoxicillin in various water matrices**

Kattel, Eneliis; Balpreet Kaur; Trapido, Marina; Dulova, Niina Environmental technology 2020 / p. 202-210 : ill  
<https://doi.org/10.1080/09593330.2018.1493149> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Persulfate-based photodegradation of beta-lactam antibiotic amoxicillin in aqueous matrices**

Kattel, Eneliis; Balpreet Kaur; Trapido, Marina; Dulova, Niina 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 167  
[http://www.eaaop5.com/files/%20Book\\_of\\_proceedings\\_EAAOP5\\_Prague2.pdf](http://www.eaaop5.com/files/%20Book_of_proceedings_EAAOP5_Prague2.pdf)

**Photochemical degradation and mineralization of amoxicillin in different water matrices [Online resource]**

**Kattel, Eneliis; Balpreet Kaur; Trapido, Marina; Dulova, Niina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fntdk.ut.ee/teesid/>

**Photochemical degradation of nonylphenol in aqueous solution : the impact of pH and hydroxyl radical promoters**

**Dulov, Aleksandr; Dulova, Niina; Trapido, Marina** Journal of environmental sciences 2013 / 1326-1330 : ill [https://doi.org/10.1016/S1001-0742\(12\)60205-8](https://doi.org/10.1016/S1001-0742(12)60205-8) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Photochemical oxidation of ceftriaxone by magnetite-activated persulfate [Online resource]**

**Tikker, Priit; Kattel, Eneliis; Dulova, Niina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fntdk.ut.ee/teesid-2019/>

**Photo-induced oxidation of ceftriaxone by persulfate in the presence of iron oxides**

**Balpreet Kaur; Kuntus, Liina; Tikker, Priit; Kattel, Eneliis; Trapido, Marina; Dulova, Niina** Science of the total environment 2019 / p. 165–175 : ill <https://doi.org/10.1016/j.scitotenv.2019.04.277> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Photo-induced persulfate oxidation of emerging micropollutants in water matrices [Online resource]**

**Balpreet Kaur; Kattel, Eneliis; Trapido, Marina; Dulova, Niina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fntdk.ut.ee/teesid-2019/>

**Photo-induced persulfate oxidation of emerging micropollutants in water matrices [Online resource]**

**Dulova, Niina; Kattel, Eneliis; Balpreet Kaur; Trapido, Marina** Ozone and Advanced Oxidation Solutions for Emerging Pollutants of Concern to the Water and the Environment : International Conference & Exhibition EA3G2018, 5 – 7 September 2018, Lausanne, Switzerland : programme, book of abstracts 2018 / p. 17 [http://www.ioa-ea3g.org/fileadmin/documents/EA3G2018\\_Programme\\_&\\_abstract\\_book.pdf](http://www.ioa-ea3g.org/fileadmin/documents/EA3G2018_Programme_&_abstract_book.pdf)

**A pilot study of three-stage biological-chemical treatment of landfill leachate applying continuous ferric sludge reuse in Fenton-like process**

**Klein, Kati; Kivi, Arthur; Dulova, Niina; Zekker, Ivar; Mölder, Erik; Tenno, Toomas; Trapido, Marina; Tenno, Taavo** Clean technologies and environmental policy 2017 / p. 541-551 : ill <https://doi.org/10.1007/s10098-016-1245-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Pulsed corona discharge oxidation of carbamazepine in water and urine**

**Petrošenko, Irina; Dulova, Niina; Simha, P.; Preis, Sergei** Future Frontiers : PhD Conference on Emerging Technologies : Book of Abstracts 2025 / p. 36 ; oral 25 [https://tuit.ut.ee/sites/default/files/2025-05/PhD%20Conference%202025%20Book%20of%20Abstracts\\_pub3.pdf](https://tuit.ut.ee/sites/default/files/2025-05/PhD%20Conference%202025%20Book%20of%20Abstracts_pub3.pdf)

**Reuse of ferric sludge as an iron source for the Fenton-based process in wastewater treatment**

**Bolobajev, Juri; Kattel, Eneliis; Viisimaa, Marika; Goi, Anna; Trapido, Marina; Tenno, Taavo; Dulova, Niina** Chemical engineering journal 2014 / p. 8-13 : ill <https://doi.org/10.1016/j.cej.2014.06.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Süvaoksüdatsiooni tehnoloogiate arendamine kaasaegsete keskkonnaprobleemide lahendamiseks : tugevalt saastatud tööstusreovetest mikrosasteaineri 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)

**TalTechi keskkonnateadlaste uus osoonimismeetod puhastab vett antibiootikumijääkidest**

**Mente et Manu** 2020 / lk. 32 <https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmenteetmanu202011&type=staticpdf>

**The application of activated persulfate processes to reduce water pollution [Online resource]**

**Kattel, Eneliis; Trapido, Marina; Dulova, Niina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

**The Fenton-based processes for wastewater treatment**

**Trapido, Marina; Dulova, Niina; Goi, Anna** NECC2012 : Nordic Environmental Chemistry Conference : Harjattula : proceedings 2012 / p. 30

**Treatment of high-strength wastewater by Fe<sup>2+</sup>-activated persulphate and hydrogen peroxide**

**Kattel, Eneliis; Dulova, Niina; Viisimaa, Marika; Tenno, Taavo; Trapido, Marina** Environmental technology 2016 / p. 352-359 : ill <https://doi.org/10.1080/09593330.2015.1069899> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Treatment of landfill leachate by continuously reused ferric oxyhydroxide sludge-activated hydrogen peroxide**

**Kattel, Eneliis; Trapido, Marina; Dulova, Niina** Chemical engineering journal 2016 / p. 646-654 : ill  
<https://doi.org/10.1016/j.cej.2016.06.135> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Treatment of landfill leachate by Fenton-based process in batch reactor with ferric sludge reuse**  
**Dulova, Niina; Kattel, Eneliis; Trapido, Marina** Abstracts of papers of the American Chemical Society. Vol. 250 2015 / [1] p

**Tseftriaksooni fotokeemiline oksüdatsioon magnetiidiga aktiveeritud persulfaadiga**  
**Tikker, Priit; Balpreet Kaur; Kattel, Eneliis; Trapido, Marina; Dulova, Niina** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 41 [https://www.ester.ee/record=b5208044\\*est](https://www.ester.ee/record=b5208044*est)

**Tseftriaksooni lagundamine vees heterogeenselt aktiveeritud persulfaadiga**  
**Kuntus, Liina; Balpreet Kaur; Trapido, Marina; Dulova, Niina; Kattel, Eneliis** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 20

**TTÜ aasta noorteadlane tunneb rõõmu Eesti looduskeskkonna üle**  
**Dulova, Niina** Mente et Manu 2017 / lk. 26-27 : fot [https://www.ttu.ee/public/m/mente-et-manu/MM\\_02\\_2017/index.html](https://www.ttu.ee/public/m/mente-et-manu/MM_02_2017/index.html)  
[https://artiklid.elnet.ee/record=b2816029\\*est](https://artiklid.elnet.ee/record=b2816029*est)

**Unconventional oil contaminated industrial effluent treatment by catalyzed hydrogen peroxide and sodium persulfate**  
**Dulova, Niina; Kattel, Eneliis; Viisimaa, Marika; Goi, Anna; Klauson, Deniss; Trapido, Marina; Saluste, Alar; Tenno, Taavo** Proceedings of the 7th International Conference on Environmental Science and Technology, June 9-13, 2014, Houston, Texas, USA 2014 / p. 262-268

**Uudne osoonimisemeetod vabastab vee ravimijääkidest**  
Imeline Teadus 2021 / lk. 20 : fot [https://www.ester.ee/record=b2747925\\*est](https://www.ester.ee/record=b2747925*est)

**Uus osoonimisemeetod puhastab vett antibiootikumijääkidest**  
Horisont 2021 / lk. 7 : fot [https://www.ester.ee/record=b1072243\\*est](https://www.ester.ee/record=b1072243*est)

**UV-assisted chemical oxidation of antihypertensive losartan in water**  
**Balpreet Kaur; Eha, Kaie; Dulova, Niina** 6th European Conference on Environmental Applications of Advanced Oxidation Processes, Portorož - Portorose, Slovenia, 26-30 June 2019 : book of abstracts 2019 / p. 242

**UV-Assisted chemical oxidation of antihypertensive Losartan in water**  
**Balpreet Kaur; Dulova, Niina** Journal of environmental management 2020 / art. 110170, 9 p. : ill  
<https://doi.org/10.1016/j.jenvman.2020.110170> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**UV-induced persulfate oxidation of organic micropollutants in water matrices**  
**Dulova, Niina; Kattel, Eneliis; Balpreet Kaur; Trapido, Marina** Ozone : science & engineering 2020 / p. 13-23 : ill  
<https://doi.org/10.1080/01919512.2019.1599711> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Water emissions and their reduction in village communities villages in Baltic Sea Region as pilots (VillageWaters) [Online resource]**  
**Dulova, Niina; Räsänen, Kati; Virtanen, Yrjö** The First International Scientific Conference : Ecological and Environmental Engineering : 26-29 June 2018, Kraków, Poland : book of abstracts 2018 / p. 50 <https://coee.urk.edu.pl/zasoby/164/Book.pdf>

**When Nano Meets Need: Advanced materials for tackling today's water treatment challenges**  
**Dulova, Niina** PIM 2025 : Book of Abstracts 2025 / p. 10 <https://pim.itim-cj.ro/pages/Book%20of%20Abstracts%20PIM%202025.pdf>