

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

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 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>

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 H₂O₂/Fe³⁺ system : a comparative study

Bolobajev, Juri; Trapido, Marina; Dulova, Niina Journal of advanced oxidation technologies 2015 / p. 347-352 : ill

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

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https://www.researchgate.net/publication/263695119_Application_of_Ozonation_UV_Photosynthesis_Fenton_Treatment_and_others_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>

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

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

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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 <http://dx.doi.org/10.1007/s13762-015-0777-2>

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

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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

A comparative study of losartan photodegradation : activated persulfate versus hydrogen peroxide

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Comparison of different advanced oxidation processes for sulphamethizole degradation : process applicability study at mg L⁻¹ level and scale-down to µg L⁻¹ 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

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

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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]

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Degradation of diclofenac in aqueous solution by homogeneous and heterogeneous photolysis

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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

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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

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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

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Degradation of naproxen in aqueous solution by H_2O_2 , $S_2O_8^{2-}$ and combined $H_2O_2/S_2O_8^{2-}$ activated with citric acid chelated 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 H_2O_2 , $S_2O_8^{2-}$ and combined $H_2O_2/S_2O_8^{2-}$ activated with citric acid chelated 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

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Degradation of propoxycarbazone-sodium with advanced oxidation processes

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

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Different activation methods of $H_2O_2/Fe(III)$ 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

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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

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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

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

Fe²⁺-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

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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 <http://doi.org/10.1080/09593330.2016.1221472>

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

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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 <http://doi.org/10.1080/19443994.2015.1057539>

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

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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
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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

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Oxidation of dexamethasone by photochemical processes in aqueous matrices : a comparative study

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Oxidation of ubiquitous aqueous pharmaceuticals with pulsed corona discharge

Derevshchikov, Vladimir; Dulova, Niina; Preis, Sergei Journal of electrostatics 2021 / art. 103567, 9 p.: ill
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Oxidative degradation of emerging micropollutant acesulfame in aqueous matrices by UVA-induced H₂O₂/Fe²⁺ and S₂O₈²⁻/Fe²⁺ processes

Kattel, Eneliis; Trapido, Marina; Dulova, Niina Chemosphere 2017 / p. 528-536 : ill <http://doi.org/10.1016/j.chemosphere.2016.12.104>

Oxidative degradation of levofloxacin in aqueous solution by S₂O₈²⁻/Fe²⁺, S₂O₈²⁻/H₂O₂ and S₂O₈²⁻/OH⁻ processes : a

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Epold, Irina; Dulova, Niina Journal of environmental chemical engineering 2015 / p. 1207-1214 : ill
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Oxidative degradation of the artificial sweetener acesulfame in aqueous matrices by UVA-induced H₂O₂/Fe²⁺ and S₂O₈²⁻/Fe²⁺ processes [Online resource]

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

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Persulfate activated by non-thermal plasma for pharmaceuticals degradation

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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

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

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

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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

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

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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]

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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>

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

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

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