

**Aina vähem vett on inimtarbimiseks kõlbulik : ohtlikult saastatud reovett saaks puhastada senisest odavamalt**  
digi.geenius.ee 2023 [Aina vähem vett on inimtarbimiseks kõlbulik: ohtlikult saastatud reovett saaks puhastada senisest odavamalt](https://digi.geenius.ee/et/Item/00388653-484b-41dd-bcb7-a67df7b65d6e)  
<https://digi.geenius.ee/et/Item/00388653-484b-41dd-bcb7-a67df7b65d6e> [https://www.ester.ee/record=b5508894\\*est](https://www.ester.ee/record=b5508894*est)

**Assessment of corona loss performance on aging transmission lines using PMU measurements**  
Gupta, Pradeep Kumar; Tuttelberg, Kaur; Kilter, Jako Energy reports 2023 / p. 215-219 <https://doi.org/10.1016/j.egy.2023.09.160>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Characterization of corona and internal partial discharge under increasing electrical stress using time domain analysis**  
Shafiq, Muhammad; Kiitam, Ivar; Taklaja, Paul; Hussain, Amjad; Kütt, Lauri; Kauhaniemi, Kimmo 2020 IEEE Electrical Insulation Conference : EIC 2020 2020 / vol. 217-220 <https://doi.org/10.1109/EIC47619.2020.9158701>

**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](#)

**Doktoritöö : ohtlikult saastatud reovett saaks puhastada senisest odavalt**  
Oidermaa, Jaan-Juhan novaator.err.ee 2022 [Doktoritöö: ohtlikult saastatud reovett saaks puhastada senisest odavalt](https://digi.geenius.ee/et/Item/00388653-484b-41dd-bcb7-a67df7b65d6e) [Doktoritöö: saastatud reovett saaks puhastada senisest odavamalt](https://digi.geenius.ee/et/Item/00388653-484b-41dd-bcb7-a67df7b65d6e) <https://digi.geenius.ee/et/Item/00388653-484b-41dd-bcb7-a67df7b65d6e>  
[https://www.ester.ee/record=b5508894\\*est](https://www.ester.ee/record=b5508894*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://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)

**Energiaefektiivne õhupuhasti 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](https://www.ester.ee/record=b1242496*est)

**Koroona-impulss elektrilahendus kui õhupuhastuse tehnoloogia**  
Bolobajev, Juri 2024 / lk. 30-32 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**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://digi.geenius.ee/et/Item/00388653-484b-41dd-bcb7-a67df7b65d6e>  
[https://www.ester.ee/record=b5508894\\*est](https://www.ester.ee/record=b5508894*est)

**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 of Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of aqueous bisphenols A and S by pulsed corona discharge : impacts of process control parameters and oxidation products identification : [conference paper]**  
Tikker, Priit; Nikitin, Dmitri; Preis, Sergei MonGOS International Conference Water and Sewage in the Circular Economy Model : abstract book 2022 / p. 69 <https://www.researchgate.net/publication/362102748>

**Oxidation of aqueous 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://digi.geenius.ee/et/Item/3cbfe919-6281-4331-8fcb-d4dbb0de1b4c>  
[https://www.ester.ee/record=b5499812\\*est](https://www.ester.ee/record=b5499812*est)

**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 pharmaceuticals in urine by pulsed corona discharge**  
Petrotsenko, 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/>

**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 l. <https://scik.eu/Rome2022/GrAbBo.php>

**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](#)

**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 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)

**Quantification of corona discharge intensity applied to sphere-plane configurations**

**Gupta, Pradeep Kumar; Ruiz, Jordi-Roger Riba; Tuttelberg, Kaur; Kilter, Jako** IEEE Transactions on Dielectrics and Electrical Insulation 2025 <https://doi.org/10.1109/TDEI.2025.3562196>

**Sensitivity analysis of corona discharges measuring instruments using different electrodes and high voltage supplies**

**Gupta, Pradeep Kumar; Riba Ruiz, Jordi-Roger; Casals-Torrens, Pau; Talens i Garvin, Jordi; Tuttelberg, Kaur; Kilter, Jako** IEEE Sensors Letters 2024 / art. 6015704 <https://doi.org/10.1109/LSENS.2024.3504551>

**Tehnikaülikooli teadlased leiutasid uudse õhupuhastamise tehnoloogia**

**Bolobajev, Juri** digi.geenius.ee 2024 <https://digi.geenius.ee/blogi/teadus-ja-tulevik/tehnikaulikooli-teadlased-leiutasid-uudse-ohupuhastamise-tehnoloogia/>

**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)

**В ТТУ исследуют дешевые способы очистки воды от опасных загрязнителей**

Tisler, J. rus.err.ee 2022 [В ТТУ исследуют дешевые способы очистки воды от опасных загрязнителей](#)

**Исследование фазы возникновения ВЧ разряда с острия**

**Veimer, Vladimir** Труды по физике : сборник статей. 8 1976 / с. 15-26 : илл [https://www.ester.ee/record=b2190766\\*est](https://www.ester.ee/record=b2190766*est)  
<https://digikogu.taltech.ee/et/Item/023bba63-69e4-40f1-8c80-5c023bdae0d>

**Коррозия металлов в фторорганических жидкостях при воздействии короны**

**Kallast, Vambola; Pajuste, O.** Электрические машины и аппараты 1971 / с. 172-178 : ил., табл  
[https://www.ester.ee/record=b2083966\\*est](https://www.ester.ee/record=b2083966*est)

**Обработка поверхности полиэтиленовой пленки коронным разрядом при низкой частоте тока**

**Oidram, Rein; Ebber, Arkadi; Piiraja, Eduard, juhendaja** Окисление и окрашивание углеводородных полимеров 1979 / с. 53-64 : илл [https://www.ester.ee/record=b1271134\\*est](https://www.ester.ee/record=b1271134*est) <https://digikogu.taltech.ee/et/Item/ffbf1b5d-e7f0-4503-aaa6-9cb582414a67>

**基于脉冲电晕放电技术对有机污染物降解与资源化**

**Wang, Yixian; Ma, Jingde; Ye, Guojie; Preis, Sergei** 环境科学学报 = Acta Scientiae Circumstantiae 2019 / p. 2964–2971  
<https://doi.org/10.13671/j.hjkxb.2019.0177> [http://www.actasci.cn/hjkxb/ch/reader/view\\_abstract.aspx?file\\_no=20190302002&flag=1](http://www.actasci.cn/hjkxb/ch/reader/view_abstract.aspx?file_no=20190302002&flag=1) [Journal metrics at Scopus](#) [Article at Scopus](#)