

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](#)

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://fmtdk.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

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>

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

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://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

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 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://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

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, Mihail; Chen, Ben-Nam Transactions of Tomsk Polytechnic University 2006 / 2, p. 108-113

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](#)

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](#)