

Development of spray pyrolysis-synthesised Bi₂O₃ thin films for photocatalytic applications

Sydorenko, Jekaterina; Krunks, Malle; Katerski, Atanas; Grzibovskis, Raitis; Vembris, Aivars; Mere, Arvo; Spalatu, Nicolae; Oja Acik, Ilona RSC advances 2024 / p. 19648-19657 <https://doi.org/10.1039/D4RA02907K> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of spray-pyrolysis-synthesised TiO₂ thin films for photocatalytic degradation of volatile organic compounds in air = Pihustuspirolüüsiga sünteetitud TiO₂ õhukeste kilede väljatöötamine lenduvate orgaaniliste ühendite fotokatalüütiliseks lagundamiseks õhus

Sydorenko, Jekaterina 2023 <https://doi.org/10.23658/taltech.6/2023> <https://digikogu.taltech.ee/et/Item/56de388b-6916-458a-8db7-641bb9aca644> https://www.estar.ee/record=b5542586*est

Efficient photoelectrocatalytic degradation of amoxicillin using nano-TiO₂ photoanode thin films : a comparative study with photocatalytic and electrocatalytic methods

Alaydaroos, Alia Husain; Sydorenko, Jekaterina; Palanisamy, Selvakumar; Chiesa, Matteo; Al Hajri, Ebrahim Chemosphere 2023 / art. 139629 <https://doi.org/10.1016/j.chemosphere.2023.139629> [Journal metrics at Scopus](#) [Article at Scopus](#)

Gas-phase photocatalytic oxidation of VOCs on the TiO₂ thin films

Sydorenko, Jekaterina; Danilson, Mati; Mere, Arvo; Krunks, Malle; Kritševskaja, Marina; Oja Acik, Ilona GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / O 10 https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Insights into TiO₂ thin film photodegradation from Kelvin Probe AFM maps

Olukan, Tuza; Sydorenko, Jekaterina; Katerski, Atanas; Al Mahri, Mariam; Lai, Chia-Yun; Al-Hagri, Abdulrahman; Santos, Sergio; Chiesa, Matteo Applied physics letters 2022 / art. 031901 <https://doi.org/10.1063/5.0098788> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Photocatalytic oxidation of VOCs AS individual air pollutants and in mixtures on the TiO₂ thin films

Sydorenko, Jekaterina; Mere, Arvo; Krunks, Malle; Kritševskaja, Marina; Oja Acik, Ilona Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 58 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

Sb₂S₃ solar cells with TiO₂ electron transporting layers synthesized by ALD and USP methods

Dedova, Tatjana; Krautmann, Robert; Rusu, Marin; Katerski, Atanas; Krunks, Malle; Unold, Thomas; Spalatu, Nicolae; Mere, Arvo; Sydorenko, Jekaterina; Sibinski, Maciej; Oja Acik, Ilona Solar energy materials and solar cells 2025 / art. 113279 <https://doi.org/10.1016/j.solmat.2024.113279>

Spray-pyrolysis synthesised TiO₂ thin films for photocatalytic air treatment from volatile organic compounds

Sydorenko, Jekaterina; Krunks, Malle; Mere, Arvo; Krichevskaya, Marina; Oja Acik, Ilona Proceedings 2023 / art. 37 <https://doi.org/10.3390/proceedings2023092037>

Synthesis control of charge separation at anatase TiO₂ thin films studied by transient surface photovoltage spectroscopy

Dittrich, Thomas; Sydorenko, Jekaterina; Spalatu, Nicolae; Nickel, Norbert H.; Mere, Arvo; Krunks, Malle; Oja Acik, Ilona ACS applied materials & interfaces 2022 / p. 43163-43170 <https://doi.org/10.1021/acsami.2c09032> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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Transparent TiO₂ thin films with high photocatalytic activity for indoor air purification

Sydorenko, Jekaterina; Mere, Arvo; Krunks, Malle; Krichevskaya, Marina; Oja Acik, Ilona RSC advances 2022 / p. 35531-35542 <https://doi.org/10.1039/D2RA06488J> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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