

Advanced oxidation of airborne m-xylene in combination of pulsed corona discharge and post-plasma photocatalysis

Altof, Kristen; Krichevskaja, Marina; Preis, Sergei; Bolobajev, Juri Journal of electrostatics 2025 / art. 104104

<https://doi.org/10.1016/j.elstat.2025.104184>

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>

Assessment of fire-retardant treatments and their impact on the fire performance and bonding properties of aspen and silver birch veneers

Alao, Percy Festus; Olusoji, Adekunle; Kallakas, Heikko; Just, Alar; Kers, Jaan European journal of wood and wood products

2025 / art. 66 <https://doi.org/10.1007/s00107-025-02223-1>

Atomic structure, dynamics, changes in chemical bonding and semiconductor-metal transition in Sb₂Se₃ : A remarkable material for quantum networks and energy applications

Kassem, Mohammad; Benmore, Chris J.; Tverjanovich, Andrey; Bokova, Maria; Khomenko, Maxim; Usuki, Takeshi; Sokolov, Anton; Fontanari, Daniele; Bereznev, Sergei; Ohara, Koji ACS applied materials & interfaces 2025 / p. 17075-17095

<https://doi.org/10.1021/acsami.5c00008>

Benchmarking Inorganic Thin-Film Photovoltaics Technologies for Indoor Applications

Placidi, Marcel; Torrents, Arnau; Li-Kao, Zacharie Jehl; Lopez-Garcia, Alex; Segura, Oriol; Gong, Yuancai; Jimenez-Arguijo, Alex;

Cano, Ivan; Spalatu, Nicolae; Oja, Ilona Solar RRL 2025 / art. 2500030 <https://doi.org/10.1002/solr.202500030>

<https://onlinelibrary.wiley.com/doi/epdf/10.1002/solr.202500030>

Deposition and characterization of zinc–tin oxide thin films with varying material compositions

Spasova, Stanka; Dulev, Vladimir; Benkovsky, Alexander; Palankovski, Vassil; Radeva, Ekaterina; Stoykov, Rumen; Nenova, Zoya;

Dikov, Hristosko; Katerski, Atanas; Volobujeva, Olga Coatings 2025 / art. 225 <https://doi.org/10.3390/coatings15020225>

Developing mineral foam blocks from oil shale byproducts through accelerated carbonation

Thomas, Adheena; Yörük, Can Rüstü; Usta, Mustafa Cem; Pantšenko, Nata-Ly; Hain, Tiina; Uibu, Mai; Trikkel, Andres ACS

omega 2025 / p. 47051-47064 <https://doi.org/10.1021/acsomega.5c05438>

Dissolution kinetics of rare earth elements from Estonian phosphate rock using hydrochloric acid treatment

Azeez, Ruhany S.; Tõnsuaadu, Kaia; Einard, Marve; Kaljuvee, Tiit; Trikkel, Andres Minerals engineering 2025 / art. 109641

<https://doi.org/10.1016/j.mineng.2025.109641> <http://https://www.sciencedirect.com/science/article/pii/S0892687525004698>

Effect of Annealing in Air on the Structural and Optical Properties and Efficiency Improvement of TiO₂/Cu_xO Solar Cells Obtained via Direct-Current Reactive Magnetron Sputtering

Wisz, Grzegorz; Sibinski, Maciej; Labuz, Mirosław; Potera, Piotr; Ploch, Dariusz; Bester, Mariusz; Yavorskyi, Rostyslav Materials

2025 / art. 888 <https://doi.org/10.3390/ma18040888>

Effect of aspen face veneer thickness on the fire performance of post-manufacture fire-retardant treated birch blywood

Alao, Percy Festus; Rohumaa, Anti; Dembovski, Karl Harold; Ruponen, Jussi; Kallakas, Heikko; Kers, Jaan Proceedings of

the 11th European Conference on Wood Modification 2025 / p. 165-172 https://doi.org/10.1007/978-3-031-99418-0_21

The effect of pressing parameters on the properties of nonwoven composites

Rahman, Md Arifur; Plamus, Tiia; Rahman, Md Toufiquir Baltic Polymer Symposium 2025 : 23d International Scientific

Conference BPS 2025“Baltic Polymer Symposium 2025” : Book of abstracts 2025 / p. 70 <http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf>

Effects of cationic substitution on the properties of Sb_{1-x}BixS₂ (x = 0–1) compounds

Dolcet Sadurni, Marc; Timmo, Kristi; Mikli, Valdek; Krustok, Jüri; Danilson, Mati; Suchodolskis, Arturas; Radu, Cristian;

Bocimea, Amelia Elena; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit Journal of Alloys and Compounds 2025 / art. 182292

<https://doi.org/10.1016/j.jallcom.2025.182292>

Electronic structure and defect states in bismuth and antimony sulphides identified by energy-resolved electrochemical impedance spectroscopy

Miliaieva, D.; Nadaždy, V.; Koltsov, M. A.; Lopez, C.; Saeeyekta, H.; Kuliček, J.; Cazorla, C.; Saucedo, E.; Grzibovskis, Raitis;

Vembris, Aivars; Krunks, Malle; Spalatu, Nicolae Journal of Physics Energy 2025 / art. 035012 <https://doi.org/10.1088/2515-7655/add59f>

Electrospun triboelectric textiles utilizing cellulose acetate

Edberg, Jesper; Savest, Natalja; Krasnou, Illia; Mulla, Mohammad Yusuf; Krumme, Andres; Hakansson, Karl; Dobryden, Illia

Advanced sustainable systems 2025 / art. e00173 <https://doi.org/10.1002/adss.202500173>

Enhancement of residential PV energy storage system by supercapacitor battery – high spatial resolution data analysis

In Ambient Air Processed Cu₂ZnSnS₄ Absorber Layers from DMSO-Based Precursors: Enhanced Efficiency via Device Post-annealing

Nasyori, Achmad; Pilvet, Maris; Saar, Annabel; Krustok, Jüri; Danilson, Mati; Kaupmees, Reelika; Mikli, Valdek; Gong, Yuancai; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit Journal of Materials Chemistry A 2025 <https://doi.org/10.1039/D5TA04554A>

In-depth photoluminescence analysis of Cu₂GeS₃ microcrystals under pulsed and continuous-wave excitation

Krustok, Jüri; Kokla, Joel; Kaupmees, Reelika; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit Journal of Physics Energy 2025 <https://doi.org/10.1088/2515-7655/adc836>

Optimization of VTD Sb₂Se₃ absorber growth rate in CdS/Sb₂Se₃ thin film solar cells : A defect perspective on chloride vs non-chloride based devices

Gopi, Sajeesh Vadakkedath; Krautmann, Robert; Katerski, Atanas; Josepson, Raavo; Untila, Dumitru; Hiie, Jaan; Krunks, Malle; Oja Acik, Ilona; Spalatu, Nicolae Solar energy materials and solar cells 2025 / art. 113856 <https://doi.org/10.1016/j.solmat.2025.113856>

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/>

Producing pyrite based solar panels for the future lunar habitat

Kristmann, Katriin; Raadik, Taavi; Heemskerk, Marc Vincent; Woods, Arthur; Vogel, Andreas; Collins, Patrick; Gasperovics, Dimitrijs; Makaya, Advenit IAF Space Power Symposium : held at the 75th International Astronautical Congress (IAC 2024) : Milan, Italy, 14-18 October 2024 2024 / p. 312 - 317 <https://doi.org/10.52202/078370-0035> [Conference proceedings at Scopus](#) [Article at Scopus](#)

The Promise of Operational Stability in Pnictogen-Based Perovskite-Inspired Solar Cells

Lamminen, Noora; Karlsson, Joshua; Kumar, Ramesh; Viswanath, N. S. M.; Lal, Snigdha; Fasulo, Francesca; Righetto, Marcello; Krishnaiah, Mokurala; Katerski, Atanas; Oja Acik, Ilona EES Solar 2025 <https://doi.org/10.1039/D5EL00029G> <https://pubs.rsc.org/en/content/articlepdf/2025/el/d5el00029g>

Synthesis and characterization of polycrystalline GeS thin films for optoelectronic applications

Drabavičius, Audrius; Pakštas, Vidas; Jasiūnas, Rokas; Koltsov, Mykhailo; Talaikis, Martynas; Naujokaitis, Arnas; Spalatu, Nicolae; Kondrotas, Rokas; Gulbinas, Vidmantas; Franckevičius, Marius Materials Science in Semiconductor Processing 2025 / art. 109193 <https://doi.org/10.1016/j.mssp.2024.109193>

Thermal activation and pozzolanic reactivity of Estonian clays for cementitious applications

Yörük, Can Rüstü; Adegbile, Ademola Michael; Tuisk, Tanel; Hain, Tiina; Uibu, Mai; Usta, Mustafa Cem; Trikkell, Andres JTACC+V4 2025 : 4th Journal of Thermal Analysis and Calorimetry Conference & 10th V4 (Joint Czech-Hungarian-Polish-Slovak) Thermoanalytical Conference : Book of Abstracts 2025 / p. 70 <https://static.akcongress.com/downloads/jtacc/jtacc2025/jtacc2025-boa.pdf>

Thermal-kinetic study of Estonian clays and calcium/sulphur-rich industrial by-product under varied calcination atmospheres

Adeomola, Michael Adegbile; Yörük, Can Rüstü; Patsenko, Nata-Ly; Uibu, Mai; Thomas, Adheena; Usta, Mustafa Cem; Trikkell, Andres JTACC+V4 2025 : 4th Journal of Thermal Analysis and Calorimetry Conference & 10th V4 (Joint Czech-Hungarian-Polish-Slovak) Thermoanalytical Conference : Book of Abstracts 2025 / p. 172-173 <https://static.akcongress.com/downloads/jtacc/jtacc2025/jtacc2025-boa.pdf>

Upscaling of toluene oxidation using water-sprinkled pulsed corona discharge and photocatalysis

Teittinen, Daniel Anselm; Preis, Sergei; Bolobajev, Juri Processes 2025 / art. 2982 <https://doi.org/10.3390/pr13092982>

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>