

Asjade interneti levikule töotavad anda hoogu erilised päikesepaneelid

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Assessment of mixed energy storage system considering high spatial resolution data from a real PV installation

Rogowski, Szymon; Hasan, Sayeed; Chub, Andrii; Sibinski, Maciej 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737964> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

Wis, Grzegorz; **Sibinski, Maciej**; Labuz, Mirosław; Potera, Piotr; Ploch, Dariusz; Bester, Mariusz; Yavorskyi, Rostyslav Materials 2025 / art. 888 <https://doi.org/10.3390/ma18040888>

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

Rogowski, Szymon; Hasan, Sayeed; Chub, Andrii; **Sibinski, Maciej** Proceedings of the Estonian Academy of Sciences 2025 / p. 269-280 <https://doi.org/10.3176/proc.2025.2S.01>

Formation and characterization of stable TiO₂/Cu_xO-based solar cells

Wis, Grzegorz; Sawicka-Chudy, Paulina; **Sibinski, Maciej**; Yavorskyi, Rostyslav; Labuz, Mirosław; Ploch, Dariusz; Bester, Mariusz Materials 2023 / art. 5683, 15 p. : ill <https://doi.org/10.3390/ma16165683> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Impact of blocking layers based on TiO₂ and ZnO prepared via direct current reactive magnetron sputtering on DSSC solar cells

Sibinski, Maciej; Sawicka-Chudy, Paulina; Wis, Grzegorz; Gnida, Paweł; Schab-Balcerzak, Ewa; Wal, Andrzej; Yavorskyi, Rostyslav; Cholewa, Marian Scientific reports 2024 / art. 10676 <https://doi.org/10.1038/s41598-024-61512-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Kleenukesed päikeseelemendid aitaks vältida ränipaneele ootavat kriisi

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Perovskite QDs embedded in polymer as a wavelength-shifting layer for UV-sensitized silicon sensors

Sosna-Glebska, Aleksandra; Rezek, Bohuslav; Ukrainsev, Egor; **Sibinski, Maciej** Journal of luminescence 2024 / art. 120618 <https://doi.org/10.1016/j.jlumin.2024.120618> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Power optimized PV microinstallation in the field condition tests

Sibinski, Maciej; Rogowski, Szymon 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 5 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604366>

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>

Solar cells from TalTech to upsurge Internet of Things expansion

Sibinski, Maciej news.err.ee 2024 [Solar cells from TalTech to upsurge Internet of Things expansion](#)

Structure defects and photovoltaic properties of TiO₂:ZnO/CuO solar cells prepared by reactive DC magnetron sputtering

Wis, Grzegorz; Sawicka-Chudy, Paulina; Wal, Andrzej; **Sibinski, Maciej**; Potera, Piotr; Yavorskyi, Rostyslav; Nykyruy, Lyubomyr; Ploch, Dariusz; Bester, Mariusz; Cholewa, Marian; Chernikova, Olena M. Applied Sciences 2023 / 13 p. : ill <https://doi.org/10.3390/app13063613>

Textile-integrated conductive layers for flexible semiconductor-based photovoltaic structures

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Uue põlvkonna päikesepaneelid muudavad kodu päikeseptareiks

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Uued inimesed ja positsioonid

Kiigema, Kadri; Sibinski, Maciej; Bauk, Sanja; Kujala, Pentti Jouko Sakari; Levo, Anu-Mai; Vaimann, Toomas Mente et Manu 2023 / lk. 44-47 : fot https://www.ester.ee/record=b1242496*est

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