Ageing of kesterite solar cells 1 : Degradation processes and their influence on solar cell parameters
Neubauer, Christian; **Samieipour, Ali**; **Oueslati, Souhaib**; **Danilson, Mati**; **Meissner, Dieter** Thin solid films 2019 / p. 595-599 : ill https://doi.org/10.1016/j.tsf.2018.11.043 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ageing of kesterite solar cells 2 : Impact on photocurrent generation
Samieipour, Ali; **Neubauer, Christian**; **Oueslati, Souhaib**; **Mikli, Valdek**; **Meissner, Dieter** Thin solid films 2019 / p. 509-513 : ill https://doi.org/10.1016/j.tsf.2018.11.044 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Analysis of design requirements and optimization possibilities of partial power converter for photovoltaic string applications in DC microgrids
Chub, Andrii; **Hassanpour, Naser**; **Yadav, Neelesh**; **Jalakas, Tanel**; **Blinov, Andrei**; **Vinnikov, Dmitri** IEEE Access 2024 / p. 14605-14619 https://doi.org/10.1109/ACCESS.2024.3354375

Buck-boost unfolder inverter as a novel solution for single-phase PV systems
Husev, Oleksandr; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri**; Roncero, Carlos; Romero-Cadaval, Enrique; **Kütt, Lauri** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6116-6121 : ill https://doi.org/10.1109/IECON.2018.8592899

Bulk and interface recombination in TiO2/Sb2Se3 solar cells
Krautmann, Robert; **Josepson, Raavo**; **Spalatu, Nicolae**; **Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 28 Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Cleaning of floating photovoltaic systems : a critical review on approaches from technical and economic perspectives
Zahedi, Rafi; Ranjbaran, Parisa; Gharehpetian, Gevork B.; Mohammadi, Fazel; **Ahmadiahangar, Roya** Energies 2021 / art. 2018, 25 p. : ill https://doi.org/10.3390/en14072018 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparative analysis of reliability for string and central inverter PV systems in accordance with the FMECA
Dumnic, Boris; **Liivik, Elizaveta**; Popadic, Bane; Blaabjerg, Frede; Milicevic, Dragan; Katic, Vladimir 2020 IEEE 11th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 28 Sept.-1 Oct. 2020, Dubrovnik, Croatia 2020 / p. 591-596 https://doi.org/10.1109/PEDG48541.2020.9244404

Congestion control strategies for increased renewable penetration of photovoltaic in LV distribution networks
Shabbir, Noman; **Kütt, Lauri**; **Astapov, Victor**; **Husev, Oleksandr**; **Ahmadiahangar, Roya**; **Wen, Fushuan**; **Kull, Karl** Energy reports 2022 / p. 217-223 https://doi.org/10.1016/j.egyr.2022.10.184 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Control over MoSe2 formation with vacuum-assisted selenization of one-step electrodeposited Cu-In-Ga-Se precursor layers
Mandati, Sreekanth; Misra, Prashant; Boosagulla, Divya; Tata, Narasinga Rao; Bulusu, Sarada V. Environmental science and pollution research 2021 / p. 15123-15129 : ill https://doi.org/10.1007/s11356-020-11783-z

Cost-effective fluorene and thiophene containing hole conductors towards semi-transparent Sb2S3 absorber-based solar cells
Mandati, Sreekanth; **Juneja, Nimish**; **Katerski, Atanas**; Jegorove, Aiste; Daskeviciute-Geguziene, Sarune; Grzibovskis, Raitis; Vembris, Aivars; **Spalatu, Nicolae**; Magomedov, Artiom; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle**; **Oja Acik, Ilona** WCPEC-8 : 8th World Conference on Photovoltaic Energy Conversion 2022 / p. 470-473 https://doi.org/10.4229/WCPEC-82022-2BV.2.70

CZTS (Kesterite) monograin membranes for photoelectrochemical water splitting (preparation and characterization)
Kouhiisfahani, Elham; **Samieipour, Ali**; **Meissner, Dieter** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

Cu2(ZnxSn2-x)(SySe1-y)4 monograin materials for photovoltaics
Mellikov, Enn; **Altosaar, Mare**; **Raudoja, Jaan**; **Timmo, Kristi**; **Volobujeva, Olga**; **Kauk, Marit**; **Krustok, Jüri**; **Varema, Tiit**; **Grossberg, Maarja**; **Danilson, Mati**; **Muska, Katri**; **Ernits, Kaia**; **Lehner, Franz**; **Meissner, Dieter** Materials Challenges in Alternative and Renewable Energy: a collection of papers presented at the Materials Challenges in Alternative and Renewable Energy Conference February 21-24, 2010, Cocoa Beach, Florida 2011 / p. 137-142 : ill

Current challenges in operation, performance, and maintenance of photovoltaic panels
Orosz, Tamas; **Rassõlkin, Anton**; Arsenio, Pedro; Poor, Peter; **Valme, Daniil**; Sleisz, Adam Energies 2024 / art. 1306 https://doi.org/10.3390/en17061306

Current situation and prospect of grid codes for a power system with integrated photovoltaic generation
Duan, Shuyin; Zhang, Shuyan; **Wen, Fushuan**; Shania, Farhad; **Palu, Ivo**; Zou, Bo; Dai, Pan 2020 International Conference on Smart Grids and Energy Systems (SGES): 23-26 Nov. 2020 2020 / p. 832-836 https://doi.org/10.1109/SGES51519.2020.00153

Damping characteristics of interconnected power systems with wind-photovoltaic-thermal-bundled power transmitted by AC/DC systems
He, Ping; Li, Zhao; Zheng, Mingmimg; **Wen, Fushuan**; Ji, Yugi; Wu, Xinxin Journal of energy engineering 2021 / p. 04021029-1-04021029-10 : ill https://doi.org/10.1061/(ASCE)EY.1943-7897.0000765 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Day-ahead PV output power forecasting utilizing boosting recursive lightGBM-LSTM framework
Hokmabad, Hossein Nourollahi; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Belikov, Juri**; **Petlenkov, Eduard** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 5 p https://doi.org/10.1109/ISGTEUROPE56780.2023.10408090

DC integration of residential photovoltaic systems : a survey
Abdelrahim Abdelghafour, Omar Mohamed; **Chub, Andrii**; **Vinnikov, Dmitri**; **Blinov, Andrei** IEEE Access 2022 / p. 66974-66991 https://doi.org/10.1109/ACCESS.2022.3185788 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design and implementation of flyback MPPT converter for PV-applications
Suskis, Pavels; **Zakis, Janis**; **Galkin, Ilja** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 291-296 : ill

Design guidelines of new step-up DC/DC converter for fuel cell powered distributed generation systems
Zakis, Janis; **Vinnikov, Dmitri**; **Roasto, Indrek**; Strzelecki, Ryszard 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 33-41 : ill

Design of LCL-filter for grid-connected buck-boost inverter based on unfolding circuit
Matiushkin, Oleksandr; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Kütt, Lauri** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818248

Development of autonomous food dehydration system based on building integrated photovoltaic thermal technology
Yakobiuk, Dmytro; **Jagomägi, Andri**; **Yakobiuk, Iryna** Journal of Renewable and Sustainable Energy 2018 / art. 021002 https://doi.org/10.1063/1.5000230 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Development of sprayed CuInS2 thin film absorber for nanostructured solar cell
Katerski, Atanas; **Kärber, Erki**; **Krunks, Malle**; **Mikli, Valdek**; **Mere, Arvo** Materials Research Society symposium proceedings 2012 https://www.researchgate.net/publication/271903084_Development_of_sprayed_CuInS2_thin_film_absorber_for_nanostructured_solar_cell

Economic pulse electrodeposition for flexible CuInSe(2)solar cells
Mandati, Sreekanth; Misra, Prashant; Boosagulla, Divya; Rao, Tata Naransinga; Sarada, Bulusu V. Materials for renewable and sustainable energy 2020 / art. 19, 6 p. : ill https://doi.org/10.1007/s40243-020-00177-3

Effect of composite layers based on dyes with different type of conductivity on photovoltaic properties of CIS films
Verbitsky, Anatoly; Vertsimakha, Yaroslav; Studzinsky, Sergei; **Bereznev, Sergei** ICEPOM-6 conference abstracts : 6th International Conference on Electronic Processes in Organic Materials : Gurzuf, Crimea, Ukraine, September 25-29, 2006 2006 / p. 54-55 https://www.researchgate.net/publication/233173021_Effect_of_Composite_Layers_Based_on_Dyes_with_Different_Types_of_Conductivity_on_Photovoltaic_Properties_of_CIS_Films

Effect of mission profile resolution on photovoltaic energy yield predictionin Python and MATLAB
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri**; Blaabjerg, Frede 2021 IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2021 / 5 p. : ill https://doi.org/10.1109/CPE-POWERENG50821.2021.9501222

Emerging converter topologies and control for grid connected photovoltaic systems
2021 https://doi.org/10.3390/books978-3-03943-910-2

Employment of dopant-free fluorene-based enamines as innovative hole transport materials to boost the transparency and performance of Sb2S3 based solar cells
Juneja, Nimish; Daskeviciute-Geguziene, Sarune; **Spalatu, Nicolae**; **Mandati, Sreekanth**; **Katerski, Atanas**; Grzibovskis, Raitis; Vembris, Aivars; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle**; **Oja Acik, Ilona** Materials science in semiconductor processing 2024 / art. 107934 https://doi.org/10.1016/j.mssp.2023.107934

European roadmap for the En-ActivETICS advancement and potential of the PV/PCM unventilated wall system application
Heim, Dariusz; **Talvik, Martin**; Wieprzkowicz, Anna; **Ilomets, Simo**; Knera, Dominika; **Kalamees, Targo**; Czarny, Dariusz Energy and buildings 2023 / art. 113207 https://doi.org/10.1016/j.enbuild.2023.113207

Flexible Cu(In,Ga)Se2 on Al foils and the effects of Al during chemical bath deposition
Bremaud, D.; Rudmann, D.; Kaelin, M.; **Ernits, Kaia**; Bilger, G.; Döbeli, M.; Zogg, H.; Tiwari, A.N. Thin solid films 2007 / 15, p. 5857-5861 https://www.sciencedirect.com/science/article/pii/S0040609006016087

Full soft-switching high step-up DC-DC converter for photovoltaic applications
Blinov, Andrei; **Vinnikov, Dmitri**; Ivakhno, Volodymyr 2014 16th European Conference on Power Electronics and Applications (EPE'14-ECCE Europe) : Lappeenranta, Finland, 26-28 August 2014. Vol. 4 2014 / p. 2951-2957 : ill

Grid-connected solar PV power plants optimization: a review
Zidane, Tekai Eddine Khalil; Aziz, Ali Saleh; **Zahraoui, Younes**; Kotb, Hossam; Aboras, Kareem M.; Kitmo; Jember, Yosef Berhan IEEE Access 2023 / p. 79588-79608 https://doi.org/10.1109/ACCESS.2023.3299815

High efficient photovoltaics in Estonia
Altosaar, Mare; **Bereznev, Sergei**; **Kauk, Marit**; **Krunks, Malle**; **Krustok, Jüri**; **Mellikov, Enn**; **Raudoja, Jaan**; **Varema, Tiit** Proc. 3rd Workshop held at JRC Ispra, 2-3 Oct. 2003 2004 / p. 179-190

High-efficiency quad-mode parallel PV power optimizer for DC microgrids
Sidorov, Vadim 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 59-60 : ill https://www.ester.ee/record=b5504019*est

High-Gain Seven-Level Switched-Capacitor Two-Stage Multi-Level Inverter
Ahmed, Hassan Yousif; **Abdelrahim Abdelghafour, Omar Mohamed**; Ali, Ziad M. Frontiers in Energy Research 2022 / art. 869662 https://doi.org/10.3389/fenrg.2022.869662

Hybrid inverter and control strategy for enabling the PV generation dispatch using extra-low-voltage batteries
Meneghetti, Luiz Henrique; **Carvalho da Silva, Edivan Laercio**; Carati, Emerson Giovani; Denardin, Gustavo Weber; da Costa, Jean Patric; de Oliveira Stein, Carlos Marcelo; Cardoso, Rafael Energies 2022 / art. 7539 https://doi.org/10.3390/en15207539 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Identification of excitons and biexcitons in Sb2Se3 under high photoluminescence excitation density
Krustok, Jüri; Kondrotas, Rokas; Nedzinskas, Ramunas; **Timmo, Kristi**; **Kaupmees, Reelika**; **Mikli, Valdek**; **Grossberg, Maarja** Advanced optical materials 2021 / 8 p. : ill https://doi.org/10.1002/adom.202100107 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Implementation of global maximum power point tracking in photovoltaic microconverters: A survey of challenges and opportunities
Vinnikov, Dmitri; **Chub, Andrii**; Kosenko, Roman; **Sidorov, Vadim**; Lindvest, Andre IEEE journal of emerging and selected topics in power electronics 2023 / p. 2259-2280: ill https://doi.org/10.1109/JESTPE.2021.3137521

Improved maximum power point tracking algorithm for step-up/down partial power converters operating around zero partiality
Yadav, Neelesh; **Hassanpour, Naser**; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** IEEE journal of emerging and selected topics in power electronics 2024 / p. 1984-1994 https://doi.org/10.1109/JESTPE.2024.3354843

Increasing PV hosting capacity in LV distribution networks using congestion control techniques
Shabbir, Noman 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 87-88 https://www.ester.ee/record=b5504019*est

Influence of PH on the hydroxide impurities in chemically deposited CDS thin film
Üürike, Marvin; **Maticiuc, Natalia**; **Volobujeva, Olga**; **Spalatu, Nicolae**; **Hiie, Jaan** The 14th International Conference of Young Scientists on Energy Issues : Kaunas, Lithuania, May 25-26, 2017 2017 / p. X-316 - X-323 : ill http://cyseni.com/archives/proceedings/Proceedings_of_CYSENI_2017.pdf

Influence of vapour transport deposition conditions on properties of SB2SE3 thin film absorber and solar cells
Gopi, Sajeesh Vadakkedath; **Spalatu, Nicolae**; **Katerski, Atanas**; **Krunks, Malle**; **Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 18 l. Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Integration of PV system with SMES based on model predictive control for utility grid reliability improvement
Bakeer, Abualkasim Ahmed Ali; Salama, Hossam S.; Vokony, Istvan Protection and Control of Modern Power Systems 2021 / art. 14 https://doi.org/10.1186/s41601-021-00191-1 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Kalman-filter based maximum power point tracking for a single-stage grid-connected photovoltaic system
Farrokhi, Ehsan; Ghoreishy, Hoda; **Ahmadiahangar, Roya**; **Rosin, Argo** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / Code 173927 https://doi.org/10.1109/IECON48115.2021.9589653 Conference Proceedings at Scopus Article at Scopus Article at WOS

Kesterite monograins for solar cells and water splitting applications
Oueslati, Souhaib; **Pilvet, Maris**; **Grossberg, Maarja**; **Kauk-Kuusik, Marit**; **Krustok, Jüri**; **Meissner, Dieter** Thin solid films 2021 / art. 138981 https://doi.org/10.1016/j.tsf.2021.138981 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Large area bar coated TiO2 electron transport layers for perovskite solar cells with excellent performance homogeneity
Mandati, Sreekanth; Dileep, K. Reshma; Veerappan, Ganapathy; Ramasamy, Easwaramoorthi Solar Energy 2022 / p. 258-268 https://doi.org/10.1016/j.solener.2022.04.060

Manganese-substituted kesterite thin-films for earth-abundant photovoltaic applications
Trifiletti, Vanira; Frioni, Luigi; Tseberlidis, Giorgio; Vitiello, Elisa; **Danilson, Mati**; **Grossberg, Maarja**; Acciarri, Maurizio; Binetti, Simona; Marchionna, Stefano Solar energy materials and solar cells 2023 / art. 112247, 13 p. : ill https://doi.org/10.1016/j.solmat.2023.112247

Materials design and bonding : general discussion
Agbenyeke, Raphael; Andreasen, Jens Wenzel; Benhaddou, Nada; Bowers, Jake W.; Breternitz, Joachim; Bär, Marcus; Dimitrievska, Mirjana; Fermin, David J.; Ganose, Alex; **Mandati, Sreekanth** Faraday Discussions 2022 / p. 375-404 https://doi.org/10.1039/D2FD90058K

New concepts and materials for sustainable photovoltaics
Krunks, Malle SustainChem2011 : International Conference on Materials and Technologies for Green Chemistry jointly with Workshop of COST Action CM0903 (UBIOCHEM-II) : September 5-9, 2011, Tallinn, Estonia : abstract book and program 2011 / p. 24

New high-gain transformerless DC/DC boost converter system
Ahmed, Hassan Yousif; **Abdelrahim Abdelghafour, Omar Mohamed**; Ali, Ziad M. Electronics 2022 / art. 734 https://doi.org/10.3390/electronics11050734 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A new six-level transformer-less grid-connected solar photovoltaic inverter with less leakage current
Vosoughi Kurdkandi, Naser; Marangalu, Milad Ghavipanjeh; Mohammadsalehian, Shamim; Tarzamni, Hadi; Siwakoti, Yam P.; Islam, Md. Rabiul; Muttaqi, Kashem M. IEEE Access 2022 / p. 63736 - 63753: ill https://doi.org/10.1109/ACCESS.2022.3182240 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Noble metal nanoparticles for improvement of fluorescent and photovoltaic materials
Dolgov, Leonid; **Oja Acik, Ilona**; **Mere, Arvo**; **Krunks, Malle**; **Mikli, Valdek** The international summer school "Nanotechnology: from fundamental research to innovations" and International research and practice conference "Nanotechnology and nanomaterials" (NANO-2013), 25 August-1 September, 2013, Bukovel, Ukraine : book of abstracts 2013 / p. 352

A novel isolated Buck-Boost DC-DC converter with wide range of voltage regulations
Afshari, Hossein; **Husev, Oleksandr**; **Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227443

Novel universal power electronic interface for integration of pv modules and battery energy storages in residential dc microgrids
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri**; Lindvest, Andre IEEE Access 2023 / p. 30845-30858 https://doi.org/10.1109/ACCESS.2023.3260640

Optical and photosensitive properties of lamellar nanocomposites obtained by Cd intercalation of GaTe
Leontie, Liviu; Evtodiev, Igor; **Spalatu, Nicolae** Journal of alloys and compounds 2014 / p. 542-545 : ill

Optimization of renewable energy for buildings with energy storages and 15-minute power balance
Savolainen, Rebecka; Lahdelma, Risto Energy 2022 / art. 123046 https://doi.org/10.1016/j.energy.2021.123046 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Optimized energy scheduling of residential DC building: Case of Nordic climate
Sidorova, Aleksandra; **Blinov, Andrei**; **Ahmadiahangar, Roya**; **Vinnikov, Dmitri**; **Võsa, Karl-Villem**; **Kurnitski, Jarek** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227437

Overview of solar photovoltaic applications for district heating and cooling
Sukumaran, Sreenath; **Laht, Janika**; **Volkova, Anna** Environmental and Climate Technologies / p. 964-979 https://doi.org/10.2478/rtuect-2023-0070

Performance evaluation of the universal photovoltaic string converter during the operation in DC microgrid environment
Matiushkin, Oleksandr; **Vinnikov, Dmitri**; **Husev, Oleksandr** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-6 : ill https://doi.org/10.1109/IECON48115.2021.9589473 Conference Proceedings at Scopus Article at Scopus Article at WOS

Photoreflectance and photoluminescence study of antimony selenide crystals
Kondrotas, Rokas; Nedzinskas, Ramunas; **Krustok, Jüri**; **Grossberg-Kuusk, Maarja**; Talaikis, Martynas; Tumėnas, Saulius; Suchodolskis, Arturas; Žaltauskas, Raimundas; Sereika, Raimundas ACS Applied Energy Materials 2022 / p. 14769-14778 https://doi.org/10.1021/acsaem.2c02131 Journal metrics at Scopus Article at scopus Journal metrics at WOS Article at Scopus

Photovoltaic microconverter with integrated sub-modular power optimizer
Maheri, Hamed Mashinchi; **Chub, Andrii**; **Vinnikov, Dmitri**; **Blinov, Andrei** IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2021 / p. 1-6 https://doi.org/10.1109/CPE-POWERENG50821.2021.9501179

Photovoltaic module and submodule level power electronics and control
Spagnuolo, Giovanni; Kouro, Samir; **Vinnikov, Dmitri** IEEE Transactions on Industrial Electronics 2019 / p. 3856 - 3859 https://doi.org/10.1109/TIE.2018.2883187 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Photovoltaics based on semiconductor powders
Meissner, Dieter The Proceedings of the 1st International Porous and Powder Materials Symposium and Exhibition PPM 2013 : 3-6 September 2013 Çeşme Izmir-TURKEY 2013 / p. 405-416 : ill

Photovoltaics based on semiconductor powders
Meissner, Dieter Materials and processes for energy : communicating current research and technological developments [E-book] 2013 / p. 114-125 : ill http://www.formatex.info/energymaterialsbook/chapters.html

A post-deposition annealing approach for organic residues control in TiO2 and its impact on Sb2Se3/TiO2 device performance
Koltsov, Mykhailo; **Krautmann, Robert**; **Katerski, Atanas**; Maticiuc, Natalia; **Krunks, Malle**; **Oja Acik, Ilona**; **Spalatu, Nicolae** Faraday Discussions 2022 / p. 273-286 https://doi.org/10.1039/D2FD00064D Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Problems in the operating and calculation of payback of photovoltaic systems in buildings
Saikovski, Valeri 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [4] p. : ill https://doi.org/10.1109/RTUCON.2017.8125624

Quality of photovoltaic modules, experimental evaluation and mathematical modelling
Tšukrejev, Pavel; **Karjust, Kristo**; **Majak, Jüri** IOP conference series : materials science and engineering 2021 / art. 012044, 7 p. : ill https://doi.org/10.1088/1757-899X/1140/1/012044

Rapid assessment of photovoltaic activity of perovskite solar cells by photoluminescence spectroscopy
Dileep, K. Reshma; **Mandati, Sreekanth**; **Ramasamy, Easwaramoorthi**; **Mallick, S**; Rao, Tata Naransinga; **Veerappan, Ganapathy** Materials letters 2021 / art. 130056, 4 p. : ill https://doi.org/10.1016/j.matlet.2021.130056

Rapid thermal processing of Kesterite thin films
Ganchev, Maxim; Spasova, Stanka; **Raadik, Taavi**; **Mere, Arvo**; **Altosaar, Mare**; **Mellikov, Enn** Coatings 2023 / art. 1449 https://doi.org/10.3390/coatings13081449

Receding-horizon based optimal dispatch of virtual power plant considering stochastic dynamic of photovoltaic generation
Xu, Yan; Liu, Zuoyu; **Wen, Fushuan**; **Palu, Ivo** Energy Conversion and Economics 2021 / p. 45–53 https://doi.org/10.1049/enc2.12027

SB2S3 thin film solar cells by ultrasonic spray pyrolysis
Eensalu, Jako Siim; **Katerski, Atanas**; **Kärber, Erki**; **Oja Acik, Ilona**; **Krunks, Malle** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 22 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Sb2S3 thin-film solar cells fabricated from an antimony ethyl xanthate based precursor in air
Eensalu, Jako Siim; **Mandati, Sreekanth**; Don, Christopher H.; Finch, Harry; Dhanak, Vinod R.; Major, Jonathan D.; Grzibovskis, Raitis; Tamm, Aile; Ritslaid, Peeter; **Josepson, Raavo**; Käämbre, Tanel; Vembris, Aivars; **Spalatu, Nicolae**; **Krunks, Malle**; **Oja Acik, Ilona** ACS applied materials & interfaces 2023 / p. 42622-42636 https://doi.org/10.1021/acsami.3c08547

Self-healing photovoltaic microconverter with zero redundancy and accurate low-cost fault detection
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE transactions on industrial electronics 2024 / p. 646-656 https://doi.org/10.1109/TIE.2023.3250836

Shade-tolerant PV microconverters
Sidorov, Vadim; **Bakeer, Abualkasim Ahmed Ali**; **Maheri, Hamed Mashinchi**; **Hassanpour, Naser**; **Rahman, Showrov**; **Chub, Andrii** Distributed Energy Systems 2023 / p. 1-22 https://doi.org/10.1201/9781003229124-17

Simulations of benzene and hydrogen-sulfide gas detector based on single-walled carbon nanotube over intrinsic 4H-SiC substrate
Rashid, Muhammad Haroon; **Koel, Ants**; **Rang, Toomas**; **Ziko, Mehadi Hasan** Micromachines 2020 / art. 453, 13 p. : ill https://doi.org/10.3390/mi11050453 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A sophisticated modeling approach for photovoltaic systems in load frequency control
Bakeer, Abualkasim Ahmed Ali; Magdy, Gaber; **Chub, Andrii**; Bevrani, Hassan International journal of electrical power and energy systems 2022 / art. 107330, 12 p. : ill https://doi.org/10.1016/j.ijepes.2021.107330 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Spatially resolved opto-electrical performance investigations of Cu2ZnSnS3.2Se0.8 photovoltaic devices
Neubauer, Christian; **Samieipour, Ali**; **Oueslati, Souhaib**; Ernits, Kaia; Meissner, Dieter Energy Science & Engineering 2018 / p. 563-569 : ill https://doi.org/10.1002/ese3.232 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

State coordinated voltage control in an active distribution network with on-load tap changers and photovoltaic systems
Singh, Praveen Prakash; **Palu, Ivo** Global Energy Interconnection 2021 / 9 p. : ill https://doi.org/10.1016/j.gloei.2021.05.005 Journal metrics at Scopus Article at Scopus Article at WOS

Step-Up series resonant DC-DC converter with bidirectional-switch-based boost rectifier for wide input voltage range photovoltaic applications
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri** Energies 2020 / Art. 3747 https://doi.org/10.3390/en13143747 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Step-up/down partial power converter with enhanced MPPT efficiency around zero partiality
Yadav, Neelesh; **Chub, Andrii**; **Hassanpour, Naser**; **Blinov, Andrei**; **Vinnikov, Dmitri** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p https://doi.org/10.1109/RTUCON60080.2023.10412980

Study of CU2GE(S,SE)3 and CU2CDGE(S,SE)4 monograin powders for photovoltaic applications
Li, Xiaofeng; **Timmo, Kristi**; **Kauk-Kuusik, Marit** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 32 l. Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Synthesis and characterization of tetrahedrite absorber materials for photovoltaic application
Ghisani, Fairouz; **Timmo, Kristi**; **Altosaar, Mare** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 17 l. Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Terahertz radiation from nonstoichiometric CuInSe2 films excited by femtosecond laser pulses
Adomavicius, Ramunas; Krotkus, Arunas; **Kois, Julia**; **Bereznev, Sergei**; **Mellikov, Enn** Applied physics letters 2005 / 19, [3] p https://doi.org/10.1063/1.2126796

The effect of S/SE ratio on the properties of Cu2CdGe(SxSe1-x)4 monograin powders for photovoltaic applications
Li, Xiaofeng; **Kauk-Kuusik, Marit**; **Timmo, Kristi**; **Pilvet, Maris**; **Grossberg, Maarja**; **Raadik, Taavi**; **Danilson, Mati**; **Mikli, Valdek** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 52 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

The nexus of energy for free and world society
Wittmann, Veronika; **Meissner, Dieter** Proceedings of 2018 6th International Renewable and Sustainable Energy Conference (IRSEC) 2019 / 6 p. : ill https://doi.org/10.1109/IRSEC.2018.8702953

The nexus of energy for free and world society
International journal of sustainable energy development 2019 / p. 384-391 : ill https://doi.org/10.20533/ijsed.2046.3707.2019.0046

The potential of distribution grid as an alternative source for reactive power control in transmission grid
Astapov, Victor; Divshali, Poria; Söder, Lennart 2018 19th International Scientific Conference on Electric Power Engineering (EPE 2018) : Brno, Czech Republic, 16-18 May, 2018 2018 / p. 64–69 : ill https://doi.org/10.1109/EPE.2018.8396031

Thin films by chemical spray pyrolysis for photovoltaic applications
Krunks, Malle 1st Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC1), 7-10 September 2011, Craiova, Romania : book of abstracts 2011 / p. 43

Three-level T-type qZ source inverter as grid-following unit for distributed energy resources
Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; **Husev, Oleksandr**; Barrero-Gonzalez, Fermin; Llor, Ana M.; Fernao Pires, Vitor IEEE journal of emerging and selected topics in power electronics 2022 / p. 7772-7785 https://doi.org/10.1109/JESTPE.2022.3193258 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Topological review of quasi-switched boost inverters

Barath, Jayakumar Geetha Nataraj; Soundarrajan, Ayyasamy; Stepenko, Serhii; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Nguyen, Minh-Khai Electronics 2021 / art. 1485 https://doi.org/10.3390/electronics10121485 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Topology morphing control of low-cost PV microconverters
Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; **Chub, Andrii**; **Sidorov, Vadim** 2021 IEEE 19th International Power Electronics and Motion Control Conference (PEMC), 25-29 April 2021, Gliwice, Poland : proceedings 2021
https://doi.org/10.1109/PEMC48073.2021.9432496

Topology-morphing photovoltaic microconverter with wide MPPT voltage window and post-fault operation capability
Vinnikov, Dmitri; **Chub, Andrii**; **Zinchenko, Denys**; **Sidorov, Vadim** IEEE Access 2020 / art. 9171332, p. 153941-153955 : ill https://doi.org/10.1109/ACCESS.2020.3017805 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ultrawide voltage gain range microconverter for integration of silicon and thin-film photovoltaic modules in DC microgrids
Chub, Andrii; **Vinnikov, Dmitri**; **Korkh, Oleksandr**; Malinowski, Mariusz; Kouro, Samir IEEE transactions on power electronics 2021 / p. 13763-13778 https://doi.org/10.1109/TPEL.2021.3084918 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Wear-out failure analysis of solar optiverter operating with 60- and 72-cell Si crystalline PV modules
Liivik, Liisa; **Chub, Andrii**; Sangwongwanich, Ariya; Shen, Yanfeng; **Vinnikov, Dmitri**; Blaabjerg, Frede IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6134-6140 : ill
https://doi.org/10.1109/IECON.2018.8592925

Verification of utility-scale solar photovoltaic plant models for dynamic studies of transmission networks
Machlev, Ram; Batushansky, Zohar; Soni, Sachin; Chadliev, Vladimir; **Belikov, Juri**; Levron, Yoash Energies 2020 / art. 3191, 20 p. : ill https://doi.org/10.3390/en13123191 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS