

An ultrafast EV charging station demonstrator [Electronic resource]

Hõimoja, Hardi; Rufer, Alfred; Dziechciaruk, Grzegorz; Vezzini, Andrea SPEEDAM 2012 : Sorrento (Italy) - June 20-22, 2012 : 21st edition of the International Symposium on Power Electronics, Electrical drives, Automation and Motion 2012 / p. 1390-1395 : ill [CD-ROM] <https://ieeexplore.ieee.org/document/6264617>

Applications of game theory to design and operation of modern power systems: a comprehensive review

Navon, Aviad; Yosef, Gefen Ben; Machlev, Ram; Shapira, Shmuel; Chowdhury, Nilanjan Roy; **Belikov, Juri**; Orda, Ariel; Levron, Yoash Energies 2020 / art. 3982, 34 p <https://doi.org/10.3390/en13153982> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Blended antilock braking system control method for all-wheel drive electric sport utility vehicle

Aksjonov, Andrei; **Vodovozov, Valery**; Augsburg, Klaus; **Petlenkov, Eduard** Electrimacs 2019 : Selected Papers, Vol. 1 2020 / p. 229-241 https://doi.org/10.1007/978-3-030-37161-6_17 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Calculation of the traction effort of ISEAUTO self-driving vehicle

Rassõlkin, Anton; **Gevorkov, Levon**; **Vaimann, Toomas**; **Kallaste, Ants**; **Sell, Raivo** 2018 25th International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2018 / p. 1-5 : ill <https://doi.org/10.1109/IWED.2018.8321397>

A comprehensive review on DC fast charging stations for electric vehicles: standards, power conversion technologies, architectures, energy management, and cybersecurity

Arena, Gabriele; **Chub, Andrii**; Lukianov, Mykola; Strzelecki, Ryszard; **Vinnikov, Dmitri**; de Carne, Giovanni IEEE open journal of power electronics 2024 / p. 1573-1611 <https://doi.org/10.1109/OJP.2024.3466936> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Considerations on combining unfolding inverters with partial power regulators in battery–grid interface converters

Galkin, Ilya A.; Saltanovs, Rodions; Bubovich, Alexander; **Blinov, Andrei**; Pefitsis, Dimosthenis Energies 2024 / art. 893 <https://doi.org/10.3390/en17040893> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Current harmonic aggregation cases for contemporary loads

Daniel, Kamran; **Kütt, Lauri**; **Iqbal, Muhammad Naveed**; **Shabbir, Noman** Energies 2022 / art. 437 <https://doi.org/10.3390/en15020437> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Current harmonics of EV chargers and effects of diversity to charging load current distortions in distribution networks

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Mölder, Heigo**; **Niitsoo, Jaan** 2013 International Conference on Connected Vehicles and Expo (ICCVE) : proceedings : Las Vegas, Nevada, USA, 2-6 December 2013 2013 / p. 726-731 : ill <https://ieeexplore.ieee.org/document/6799884>

Day-ahead scheduling of electric vehicles and electrical storage systems in smart homes using a novel decision vector and AHP method

Alilou, Masoud; Gharehpetian, Gevork B.; **Ahmadihangar, Roya**; **Rosin, Argo**; Anvari-Moghaddam, Amjad Sustainability (Switzerland) 2022 / Art. 11773 <https://doi.org/10.3390/su141811773> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design of regenerative anti-lock braking system controller for 4 in-wheel-motor drive electric vehicle with road surface estimation

Aksjonov, Andrei; **Vodovozov, Valery**; Augsburg, Klaus; **Petlenkov, Eduard** International journal of automotive technology 2018 / p. 727-742 : ill <https://doi.org/10.1007/s12239-018-0070-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of testing method for smart substations with prosumers

Korõtko, Tarmo; **Merisalu, Ülo**; Mägi, Marek; **Peterson, Kristjan**; **Pettai, Elmo** Journal of microelectronics, electronic components and materials 2014 / p. 185-200 : ill <https://www.dlib.si/details/URN:NBN:SI:doc-N5PGZIFC> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dynamic control system for electric motor drive testing on the test bench

Rassõlkin, Anton; **Kallaste, Ants**; **Vaimann, Toomas** 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 252-257 : ill <http://dx.doi.org/10.1109/CPE.2015.7231082>

Electric vehicle charger load current harmonics variations due to supply voltage level differences - case examples

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Mölder, Heigo**; **Niitsoo, Jaan** 2014 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) : 18-20 June, 2014, Ischia, Italy : proceedings 2014 / p. 917-922 : ill

Electrification of transportation: policy framework, technical aspects and challenges in Pakistan - A case study

Masood, Arsalan; Hassan, Syed Zulqadar; Kamal, Tariq; **Khan, Salman**; Rizvi, Syed Asad Abbas; Salman, Salman e-Prime - Advances in Electrical Engineering, Electronics and Energy 2024 / art. 100803, 18 p. : ill <https://doi.org/10.1016/j.prime.2024.100803>

Estimating the harmonic distortions in a distribution network supplying EV charging load using practical source data - case example

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Mölder, Heigo**; **Niitsoo, Jaan** 2014 IEEE Power and Energy Society General Meeting : National Harbor, MD, USA, 27-31 July 2014 2014 / [5] p. : ill

Estimation of hybrid energy generation of solar-wind tower for electric vehicle charging : a case study of Indian highway

Singh, Samarendra Pratap; Tiwari, Prabhakar; **Singh, Praveen Prakash**; Singh, Sri Niwas Energy Storage 2024 / art. e70004
<https://doi.org/10.1002/est2.70004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Exploring the Landscape of End User Energy Flexibility: A Systematic Review of Technologies, Challenges, and Opportunities

Maask, Vahur; **Agabus, Hannes**; **Tiismus, Hans**; **Astapov, Victor**; **Ahmadihangar, Roya**; **Korõtko, Tarmo**; **Rosin, Argo** IEEE Access 2025 / p. 146579-146602 <https://doi.org/10.1109/ACCESS.2025.3599989> <https://ieeexplore.ieee.org/document/11129056>

Fuzzy control of energy recovery in electric vehicles with hybrid energy storage

Vodovozov, Valery; **Aksjonov, Andrei**; Ricciardi, Vincenzo; **Raud, Zoja** 2019 International Conference on Clean Electrical Power (ICCEP) 2019 / p. 345-350 : ill <https://doi.org/10.1109/ICCEP.2019.8890103>

Fuzzy logic control of electric vehicles in changing braking conditions

Vodovozov, Valery; **Raud, Zoja**; **Aksjonov, Andrei**; **Petlenkov, Eduard** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / art. 20192756, p. 107-112
<https://doi.org/10.1109/ICEPDS47235.2020.9249083>

Hardware-in-the-Loop test of an open loop fuzzy control method for decoupled electro-hydraulic antilock braking system

Aksjonov, Andrei; Ricciardi, Vincenzo; Augsburg, Klaus; **Vodovozov, Valery**; **Petlenkov, Eduard** IEEE transactions on fuzzy systems 2020 / p. 965-975: ill <https://doi.org/10.1109/TFUZZ.2020.2965868> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Health and charge indicators for battery energy storage systems in electric vehicles applications

Zequera, Rolando Antonio Gilbert; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 427-432
<https://doi.org/10.1109/PEMC51159.2022.9962858>

Hybrid driven digital twin modelling framework for an EV propulsion drive system

Ibrahim, Mahmoud; **Rassõlkin, Anton** IET Intelligent Transport Systems 2025 / art. e70099 <https://doi.org/10.1049/itr2.70099> [Scopus](#)

Hyperspectral imaging for vehicle traction effort prediction: ISEAUTO case study

Valme, Daniil; **Rassõlkin, Anton**; **Liyanage, Dhanushka Chamara** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227463>

Load shifting in the existing distribution network and perspectives for EV charging - case study

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Rosin, Argo**; **Mölder, Heigo** 2014 5th IEEE PES Innovative Smart Grid Technologies Europe (ISGT Europe) : October 12-15, Istanbul 2014 / p. 1-6 : ill

Modelling EVs in residential distribution grid with other nonlinear loads [Electronic resource]

Niitsoo, Jaan; **Taklaja, Paul**; **Palu, Ivo**; **Kiitam, Ivar** 2015 IEEE 15th International Conference on Environment and Electrical Engineering : conference proceedings : June 10-13, 2015, Rome 2015 / p. 1543-1548 : ill. [CD-ROM]
<http://dx.doi.org/10.1109/EEEIC.2015.7165401>

Modelling of a versatile vehicle braking system with a fuzzy PID torque controller

Vodovozov, Valery; **Raud, Zoja**; **Aksjonov, Andrei**; **Petlenkov, Eduard** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/BEC49624.2020.9276798>

Multi-objective planning of electric vehicles charging in distribution system considering priority-based vehicle-to-grid scheduling

Singh, Praveen Prakash; Das, Soumyabrata; **Wen, Fushuan**; **Palu, Ivo**; Singh, Asheesh K.; Thakur, Padmanabh Swarm and evolutionary computation 2023 / art. 101234, 16 p. : ill <https://doi.org/10.1016/j.swevo.2023.101234> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel renewable powered stand-alone electric vehicle parking-lot model

Jawad, Muhammad; Asghar, Hira; Arshad, Jehangir; Javed, Abbas; Qureshi, Muhammad Bilal; Ali, Sahibzada Muhammad; **Shabbir, Noman**; **Rassõlkin, Anton** Sustainable energy, grids and networks 2023 / art. 100992, 14 p. : ill
<https://doi.org/10.1016/j.segan.2022.100992> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Overview on Energy Management of Electric Vehicles with Intelligent Braking Controllers

Vodovozov, Valery; Raud, Zoja 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCon), November 15-17, 2021 : conference proceedings 2022 / 4 p. : ill
<https://doi.org/10.1109/RTUCon53541.2021.9711715>

Power Electronics and Energy Management for Battery Storage Systems

2022 <https://doi.org/10.3390/books978-3-0365-5278-1>
https://www.mdpi.com/journal/energies/special_issues/peem_for_battery_storage_systems

Power factor correction with vehicle-to-grid STATCOM implementation

Rassõlkin, Anton; Kallaste, Ants; Hõimoja, Hardi PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 177-180 : ill

Power quality issues concerning photovoltaic generation and electrical vehicle loads in distribution grids

Niitsoo, Jaan; Taklaja, Paul; Palu, Ivo; Klüss, Joni Smart grid and renewable energy 2015 / p. 164-177 : ill

A review of the harmonic and unbalance effects in electrical distribution networks due to EV charging

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; Mölder, Heigo; Niitsoo, Jaan 12th International Conference on Environment and Electrical Engineering (EEEIC) : 5-8 May 2013 2013 / [6] p

Review on Braking Energy Management in Electric Vehicles

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Energies 2021 / art. 4477 <https://doi.org/10.3390/en14154477> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Slow adoption of EVs under a weak policy regime: Future scenarios of EVs development and diffusion in Iran

Fartash, Kiarash; Ghorbani, Amir; Bagheri, Mohammadhossein Futures 2023 / art. 103196
<https://doi.org/10.1016/j.futures.2023.103196> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

State of charge and health estimation of batteries for electric vehicles applications: key issues and challenges

Singh, Pratap Samarendra; Singh, Praveen Prakash; Singh, Niwas Sri; Tiwari, Prabhakar Global Energy Interconnection 2021 / 13 p. : ill <https://doi.org/10.1016/j.gloi.2021.05.003> Journal metrics at Scopus Article at Scopus Article at WOS

Study of e-vehicle drive behaviour under changeable control

Rassõlkin, Anton; Vodovozov, Valery; Raud, Zoja Digest book and electronic proceedings : 54th International Scientific Conference of Riga Technical University : Section of Power and Electrical Engineering 2013 / p. 13.1-13.5 : ill

Towards a smarter charging infrastructure : real-time availability forecasting for EVs

Manai, Meriem; Sellami, Bassem; Ben Yahia, Sadok Procedia Computer Science 2024 / p. 930 - 939
<https://doi.org/10.1016/j.procs.2024.09.512> Conference proceedings at Scopus Article at Scopus

Trajectory phase-plane method - based analysis of stability and performance of a fuzzy logic controller for an anti-lock braking system

Aksjonov, Andrei; Ricciardi, Vincenzo; Vodovozov, Valery; Augsburg, Klaus 2019 IEEE International Conference on Mechatronics (ICM) : proceedings 2019 / p. 602-607 : ill <https://doi.org/10.1109/ICMECH.2019.8722831>

Unsettled impacts of integrating automated electric vehicles into a mobility-as-a-service ecosystem and effects on traditional transportation and ownership

Taiber, Joachim; Sell, Raivo 2019 <https://doi.org/10.4271/EPR2019004>

Utilization of electric vehicles connected to distribution substations for peak shaving of utility network loads

Mägi, Marek Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2013 / p. 47-54 : ill