

POSTERS to be presented at StandUp Academy in Luleå 10 Sept 2024

Please, bring your own copy of this list to the poster session!

1.

Nanochitin Enabled Aqueous Processing of Graphite Electrodes for Greener Lithium-ion Batteries.

Amritha P. Sandra^a, Vishnu Arumughan^b, Eero Kontturi^b, Rakel Wreland Lindström^a

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2.

MoSES - Modeling of Sustainable Energy Systems: The New Design and Optimization Tool.

Salvatore Guccione and Rafael Guedez

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3.

Urban Grid Integration of Plug-in Electric Vehicles: A Real Case Study in Stockholm County

Priscila Costa Nascimento, Silvia Trevisan, Björn Laumert.

KTH Royal Institute of Technology.

Corresponding author: Priscila Costa Nascimento pcn@kth.se (KTH Royal Institute of Technology)

4.

Maximizing the energy output from a vertical axis marine current energy converter.

Johan Forslund, Christoffer Fjellstedt, Anders Goude, Karin Thomas

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5.

A decade of spatial multi-criteria analysis for wind farm siting in Europ e.

Deepa Manolan Kandy, Ulla M rtberg

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6.

EV CHARGING LOAD FORECAST USING LSTM

Marina Martins Mattos[^], Renan Maciel*, Alexander Wallberg[^], Valeria Castellucci[^]

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7.

Defect Investigation of Undoped Wide Bandgap Materials

Rina Yamazaki, Jan Isberg, Aisuluu Aitkulova, Nattakarn Suntornwipat, Markus Gabrysch and Saman Majdi (Division for Electricity, Department of Electrical Engineering, Uppsala University, Box 65, 751 03 Uppsala, Sweden)

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8.

Biomass or Hydrogen? Methanol production in the Oskarshamn harbor.

Fernando Villarroel Contreras KTH

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9.

ENSURING VOLTAGE STABILITY IN LOW VOLTAGE GRIDS DURING SHORT-CIRCUITS

J ssica S. D hler, Robert Eriksson, Janaina G. Oliveira and Cecilia Bostr m (all authors from Uppsala University)

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10.

Grid integration of multisource offshore parks

Erik Jonasson, Irina Temiz. Department of electrical engineering, Division of electricity, Uppsala University

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11.

Unravelling the discharge mechanism of Iron Nitroprusside, Fe[Fe(CN)₅NO], in green Sodium Ion Batteries.

Alexandra Ulander, Laura Altenschmidt, William Brant, all from *Department of Chemistry-Ångström Laboratory, Uppsala University, Uppsala SE-75121, Sweden*

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12.

Counter rotating ferrite based generator for floating offshore wind

Izabella Simonsson Uppsala university and Hans Bernhoff Uppsala university. (Department of electrical engineering).

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13.

2D Perovskites in Solar Cells

Mahboubeh Jamshidi, James Gardner (KTH Royal Institute of Technology, Department of Chemistry)

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14.

Multi-mode converter control for linear generator-based wave energy system

Md Imran Ullah, Jessica S. Döhler, Vinicius M. de Albuquerque, Johan Forslund, Cecilia Boström and Irina Temiz.

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15.

Dynamic power control for frequency regulation using Hybrid PEM/Alkaline hydrogen electrolyzers and battery system

Manuel Agredano-Torres, and Qianwen Xu (KTH Royal Institute of Technology, Stockholm Sweden)

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16.

Life-Cycle and Environmental Impact Assessment Approach to Support Decision-Making in Hybrid Solar-Battery projects

Luka Smajila, KTH – Royal Institute of Technology

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17.

Techno-economic analysis of solar power plants + storage systems participating in balancing markets

Ana Sanchez Sanz, Salvatore Guccione, Silvia Trevisan, Rafael Guede, all from KTH

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18.

Investigation of perfluorosulfonic acid- and hydrocarbon-based polymers for Proton Exchange Membrane Fuel Cells operated at Intermediate Temperatures

Martina Butori, Björn Eriksson, Carina Lagergren, Göran Lindbergh, Rakel Wreland Lindström.

All at Dept. of Chemical Engineering / Applied electrochemistry, KTH Royal Institute of Technology, SE-100 44 Stockholm, Sweden

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19.

Aerodynamic Simulation of Cross Flow Turbines

Emil Andersson, Uppsala Universitet, Institutionen för Elektroteknik, Elektricitetslära
Anders Goude, Uppsala Universitet, Institutionen för Elektroteknik, Elektricitetslära

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20.

Towards Fossil-Free Agriculture: Harnessing Hydrogen Fuel as a Sustainable Alternative to Diesel

Ashkan Tayebi - Gunnar Larsson - Åke Nordberg - Per-Anders Hansson

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21.

Permanent-magnet linear generator design for the energy harvest of vortex shedding.

Vinicius M. de Albuquerque (UU), Roberto Felicetti (UU), Johan Forslund (UU), Urban Lundin (UU).

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22.

Poster title: High Power Charging

Christoffer Aalhuizen, Karin Thomas & Cecilia Boström, Uppsala University

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23.

Correlation between metrics of Primary Frequency Reserve units and frequency quality.

Karl-Fredrik Kylesten *Dept of Electrical Engineering/Division for Electricity UU.*

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24.

Ecohydraulic Effects of Seasonal Flow Alteration in Juktån

J. Bastian Höller, Anders G. Andersson, J. Gunnar I. Hellström (all: Fluid and Experimental Mechanics, TVM, Luleå University of Technology)

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25.

Process identification in MCFCs using the distribution of relaxation times (DRT)

Juan Pedro Pérez Trujillo, Göran Lindbergh, Carina Lagergren
All at Applied Electrochemistry, Department of Chemical Engineering, KTH Royal Institute of Technology

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26.

Evaluating the Impact of PMSM Drive Cycle Quantification

Emil Lind, David Bergman, Sandra Eriksson, Uppsala University

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27.

Real-Time Simulation of Low Voltage Grids with High Penetration of Distributed Energy Resources

Ludvig Syrén, Juan de Santiago, Anton Grönberg, Janaina Goncalves de Oliveira Department of Electrical Engineering, Uppsala University, Uppsala, Sweden and Engenharia Elétrica, Universidade Federal de Juiz de Fora, Juiz de Fora, MG, Brazil.

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28.

Data-driven design method for functional materials

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29.

SYSTEM PERSPECTIVE VALUE(S) OF ELECTRICITY USERS' FLEXIBILITY

Carl Flygare, Robert Eriksson, Valeria Castellucci (UU, Department of Electrical Engineering, Division of Electricity)

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30.

Hydrogen Export from Sweden

Kumail Marnate & Stefan Grönkvist (Division of Energy Processes, KTH)

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31.

Experimental Study and Surrogate Modeling of a Scaled Eddy Current Power-Take-off

Antoine Dupuis (Uppsala University), Zahra Shahroozi (Uppsala University) & Jens Engström (Uppsala University)

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32.

Charging of Electric Aircraft

Martin Lindberg och Jennifer Leijon, Department of Electrical Engineering, Uppsala University.

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33.

Dansmästaren Project: Potential Demand-Side Flexibility.

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34.

Low-carbon materials for sustainable wind power production

Léa Braud, Fabian Cheng, Elisabeth Ekener
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35.

Harmonic and supraharmonic interactions of high power converters

Egil Schultz and Karin Thomas, UU

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36.

Surface chemical analysis of thermally processed Ni/Diamond: XPS and RBS approach

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37.

Future climate impact of all-solid-state batteries

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38.

Prospective life cycle assessment of organic redox flow batteries

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39.

Climate mitigation through methane oxidation and carbon dioxide removal – a life cycle study on manure emissions

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40.

Techno-economic comparison of solar photovoltaic-thermal (PVT) absorber designs for ground source heat pump (GSHP) integration

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