

Oslo utility-scale energy storage

The work in Prof. Sabrina Sartori's research group broadly encompasses materials and devices with a particular focus on energy technologies. Her group's work includes synthesis, characterisation and scale-up of hydrogen-based materials for vehicular and large-scale applications; batteries; modeling of components and hybrid storage systems.

Recent past projects: AtLAST (Horizon 2020); Hydrogen production from offshore wind, industrial project; INNOVENAT, The sustainable pursuit of energy storage for transformational telescopes; 2D MXenes based anode materials for all-solid-state Li-ion batteries

National: the Departments of Chemistry, Physics, Informatics, and Institute of Theoretical Astrophysics at UiO; Institute for Energy technology (IFE), Norwegian Defence Research Establishment (FFI), H2Cluster; UNITECH; Siemens Smart Infrastructure Nordic

International (examples): Université du Québec à Trois-Rivières, University of Catania, Helmholtz-Zentrum Geesthacht, University of Pavia, Adama Science and Technology University; University of Campinas

Hydrogen: PEM fuel cell stack and system modeling ([link](#)); The role of the air supply system for proton exchange membrane fuel cells at high elevations; Hydrogen from offshore wind - The role of life cycle assessment in the optimal infrastructure design ([link](#)); Combined Hydrogen and Offshore Wind Production - Design and Market Value ([link](#)); Proton Exchange Membrane Water Electrolyzer Modeling ([link](#)); Modelling and validation of a Fuel Cell Electric Bus ([link](#)); $\text{Ti}_{1.1}\text{CrMn}$ and its hydrides for the application in thermal hydrogen compression ([link](#))

Batteries: Cycle Life prediction of Lithium-ion Batteries Using Machine Learning ([link](#)); Safety issues of Li-ion batteries ([link](#)); Prediction of Battery Materials Properties with Machine Learning ([link](#)); Advanced Modelling of NiMH Batteries ([link](#)); In situ operando SAXS and WAXS characterization of the anode materials ($\alpha\text{-P/C}$ and FeSb_2) for rechargeable sodium ion batteries ([link](#))

Other topics: Antimony selenide based solar cells ([link](#)); Building-integrated photovoltaics in Norway, challenges and standards ([link](#)); Wind-Driven Clouds - Utilizing wind energy in data centers ([link](#)); How will different politics affect the energy system? ([link](#)); Conductivity and Defects in Al-doped $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ - A solid-state Li-ion conductor ([link](#))

How to transport electricity from wind turbines far out to sea in a cheap way? Titan (2023); Verdensrommet utforskes med dislaggregater, Titan (2023); Smart energilagring bidrar til å berge klimaet, Titan (2020); Astronomy sets new records with revolutionary telescope, Titan (2020); Slik kan Norge gjøre mer for

det globale klimaet, Titan (2019);UiO-forsker samarbeider med nobelprisvinneren i kjemi, Titan (2019);UiO researchers have a goal: More solar and wind energy in the electricity grid, Apollon (2017);Nye batterier er en "game changer", Titan (2016)

Muhammad Salman (PhD); Emil Høj Jensen (PhD);Bjørn Aarseth (PhD);Bruno Hessel Silva;Guillermo Valenzuela; Jesus Marcos Torero;Igor Spegiorin Vicente; Federico Mandrioli; Abderrahim Eddafi;Ørne Iversen

Isabelle Viole (PhD); Torbjørn Egeland-Eriksen(PhD);Marco Blasius (visiting PhD);Mari Høgaard (PhD); Jonas Sottmann (PhD); Fleur Legrain (visiting PhD); Elbruz Baba (PhD);Hans Kristian Haraldseth; Lasse Høien; Hugo Morales; Antonio Barile; Omid Gholamighasri; Andreas Dyve; TobiasHvidsten; Hans Aleksander Skorgen;Johan Gustafsson; Kristin Alvestad;Jonas Flatgård Jensen;Jørgen Osnes; Charilaos Zorogiannidis; Kristine Fuglestad;Ulrik Sandvei;Jørgen Tuset; Sondre Torp; Aleksander Elstad; Jonas Kolding; Karoline Sjøen Andersen; Morten Østingrud; Idun Regine Skarbø Osnes; Mauro Povia

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