

Fortum and Neste Foundation's Grants 2024

Akram Muhammad Saad

Utilizing carbon neutral fuels (ammonia, hydrogen, methanol, ethanol, HVO) in heavy-duty engine applications

Amano Bernadeth

Process monitoring of freeze crystallization based on electrical conductivity of sulfate solutions

Badazhkova Veronika

From forest industry waste streams to new chemicals and materials: Value from lignin degradation

Bagheri Marzieh

Revolutionizing water electrolysis: Designing a noble metal free anode for sustainable hydrogen production from lignin derivatives

Bhuskute Bela

Harnessing visible light photons for solar fuels and chemicals generation: Scalable artificial leaf approach

Bogdanova Alisa

Powder coating in fluidized-bed reactor for enhancing lithium battery cathode materials performance

Eloranta Pulmu

Hierarkkiset orgaaniset johdepolymeerirakenteet elektrodimateriaaleina bioaurinkokennosovelluksissa

Fabritius Anita

Pienten modulaaristen ydinreaktoreiden käytetyn polttoaineen loppusijoitus syväkairareikä menetelmällä: Radionuklidien käyttäytyminen kallioperässä ja päästöesteissä

Fattaheian Dehkordi Sajjad

Frequency response management of storage units in a low-inertia power grid with high-integration of renewable energy sources

Faustov Artem

Investigation of influence of single-walled carbon nanotubes as conductive additive on the electrochemical performance of LiFePO₄-cathodes

Hamzehaghdam Farid

6G Enabling Sustainable Society (6GESS)-Sustainable energy systems empowering users with digital services

Järvinen Ellen

Catalysts for the conversion of glycerol to renewable chemicals

Kabugo James Clovis

Online monitoring of catalyst deactivation in the hydrogenation process

Karhu Juha

Lumen vaikutus aurinkosähkötuotantoon Suomessa

Kobets Anna

Improving of the properties of the layered positive electrode materials for lithium-ion batteries

Kudjoi Atte

New sustainable ionic phases for performance improvement of biodegradable supercapacitors

Kumar Haresh

Big data analytics for condition monitoring and predictive maintenance of medium voltage cables

Llanos Princess Stephanie

Cycling stability of nickel-rich positive electrode material in Lithium-ion batteries at high voltage operation

Maddahi Reza

International law on CCS technology: A legal appraisal of compatibility and opportunities under the Paris Climate Change Agreement with a focus on international market mechanisms

Meriläinen Ella

Ligniiniyhdisteiden hyödyntäminen biotekniikan avulla: anaerobisten ja aerobisten bakteerien synergeettisen yhteistyön mahdollisuudet

Pakkanen Noora

Radionuclide transport with colloids in fractured rock

Penttilä Reko

Flat bands as a route to room temperature superconductivity

Pomogaev Aleksandr

Utilizing the thermal inertia of massive structures as a passive heat sink in small and micro modular reactors

Riaz Zubair

Upgrading of the mixed plastic waste pyrolysis oil

Risku Noora

Mitkä tekijät edistävät elintarvikepakkausmuovin kompostoitumista biojätteenkäsittelyssä?

Ristiluoma Timo

Computational modelling of hydride materials for hydrogen storage

Romakkaniemi Idamaria

Ligniinin entsyymaattinen valorisaatio

Rosenthal Moritz Karl

Critical metal-free electrocatalysts for the oxygen evolution reaction: towards sustainable proton exchange membrane electrolyzers

Routaharju Liisa

Engineering education for sustainable development

Sapkota Narhari

Conductive metal-organic frameworks (MOFs) and their applications in energy storage

Sayed Ahmed Hassan

Towards affordable green hydrogen: Data-driven optimization of PEM electrolysis

Sharifi Garmdareh Alireza

Uncertain climate change impacts and human activities on river flow alteration and hydropower in Northern Finland

Shestopalova Iuliia

Novel sustainable upconverter glass-based materials for next generation of solar cell

Soleimani Amir

VVA-enabled reactivity on demand as a solution for flexible decarbonization of next-generation marine engines

Spinosa Maria

Produktion av sockerestrar

Suominen Topi

Metalli(IV)oksidit ryhmän 3 ja f-lohkon alkuaineiden selektiivisissä erotuksissa ja hybridi-ioninvaihtimien tukirakenteina

Ulaska Iida

Metalliorgaanisiin huokosmateriaaleihin perustuvat 3D-tulostettavat elektrodit vihreän vedyn sähkökemiallisessa tuotannossa

Yeganeh Maryam

On the phenomenology of hydrogen abnormal combustion (backfire, spark knock, knocking surface ignition, non-knocking surface ignition or pre-ignition, phantom spark, and misfire) in internal combustion engines

Grantees at the Award Ceremony 4.9.2024

