Fortum and Neste Foundation Grants 2023

Akram Muhammad Saad
Investigating carbon neutral fuels in heavy-duty engines

Arif Maham
Lignin-based formaldehyde-free green and sustainable wood adhesives for engineered wood products

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

Chen Jiayi
Study of materials phenomena in manufacturing of laminated rotors of novel electric motors for electric transportation and high-speed applications

Dutta Anupam
Carbon capture, utilization and storage: The role of CO2 trading

Haider Syed Ejaz
Synthesis, simulation, and optimization of integrated biorefining process

Hartikainen Anni
Uusiutuvan dieselpolttoaineen vaikutus pienten työkoneiden päästöihin ja päästöjen ilmakehämuutuntaan

Hartmann Jens
Aspects of operational safety of multiple small modular reactor from a centralized location

Karhu Juha
Lumen vaikutus aurinkosähkötuotantoon Suomessa

Kattelus Joakim
Simultaneous hydrocracking and hydrodenitrogenation of waste plastics using transition metal sulfide catalysts

Kudjoi Atte
New sustainable ionic phases for performance improvement of biodegradable supercapacitors

Laamanen Irina
Expansion planning of active distribution network

Laitinen Markus
Methanol as an energy carrier for future transportation via carbon capture utilization and power-to-X

Modabberian Amin
Vähäpäästöisten polttomoottoreiden säätömenetelmien kehittäminen

Mohammadpourlima Naghmeh
Towards carbon-neutral cities: Social participation and policy implementation through gamification

Mousavi Seyede Maryam
Improving the longevity of solar cells through the integration of added functions

Murashko Kirill
Metal-doped ZIF-8 derived hollow carbon for high-performance lithium-sulfur batteries

Nyari Judit
Perspectives of ferry operators on alternative fuels and emission mitigation tools for a successful energy transition

Odutola Jokotadeola
Interfacial photo-generated carrier dynamics of graphitic carbon-based photoelectrodes for green hydrogen production

Otaki Miho
Ultra-selective separation of lanthanides by organophosphorus-based materials and methods

Pakkanen Noora
Radionuclide transport with colloids in fractured rock

Penttilä Reko
Flat bands as a route to room temperature superconductivity

Radmehr Shahla
Sustainable biofuels production through co-culturing of microalgae and bacteria

Rönn Kristian
Super-knock-tutkimukset turboahdetussa bensiinimoottorissa

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

Schurr Jennifer Lorena
Experimental and numerical studies on hydrogen and ammonia for combustion applications

Sederholm Linda
Adjustment of superconductive properties in YBa2Cu3O7+d by extreme pressure methods

Selänniemi Andreij
Long duration energy storage

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

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

Vasara Joni

Vesivoimalaitoksen ja energiavaraston muodostaman hybridivoimalaitoksen operointi sähköverkon taajuustasapainon hallinnassa

Yeganeh Maryam

Developing a fully optical RCEM for investigating the combustion phenomena in hydrogen engines