

Programme Day 1

11:40 I1	page 1	Invited speaker: Natalia Konchakova (HEREON), Peter Klein, Marko Horvat Supporting the Green Digital Transition by Digitalizing Innovative Advanced Materials: VIPCOAT, DigiPass and IAM4EU
14:00 O1	page 3	Hernán Asorey (CIEMAT, Spain), Enrique Ugedo-Egido, Antonio Juan Rubio-Montero, Stefan Wilbert, Luis F. Zarzalejo, Rafael Mayo-García A digital framework for adoption FAIR principles and its implementation in the solar radiation field
14:20 O2	page 4	August Wierling (Western Norway University of Applied Sciences, Norway), Valeria Jana Schwanitz Demonstrating how energy data can comply with FAIR data principles avoiding large efforts and specialized skills by using csv on the web
14:40 O3	page 5	Kourosh Malek (FZ-Jülich, Germany), Max Dreger, Michael Eikerling Novel approaches in meta-data management and ontologies for clean energy materials
15:00 O4	page 6	Josua Vieten (ExoMatter, Germany), M. Pein, K. Lee, M. Roeb, C. Sattler Fast and efficient screening of materials for thermochemical energy storage on a novel materials informatics platform
15:20 O5	page 7	Massimo Celino (ENEA, Italy), Sergio Ferlito, Simone Giusepponi, Francesco Buonocore, Sara Marchio IEMAP: Italian Energy Materials Acceleration Platform

Programme Day 2

9:00 O6	page 8	Anja Bieberle-Hütter (DIFFER, the Netherlands) Multiscale modeling of electrochemical interfaces: Challenges and chances
9:20 O7	page 9	Viktor Mandrolko (Univ. Lorraine, France), David Lacroix, Laurent Chaput, Mykola Isaiev Understanding heat transport across functionalized silica water interface: insights from molecular dynamics simulations
9:40 O8	page 10	Nima E. Gorji (TU Dublin, Ireland) Multi-physics COMSOL Simulation of Five Heat Generation Factors
10:00 O9	page 11	Ainhoa Bustinza (CIC energiGUNE, Spain), Iciar Monterrubio, Maha Ismail, Javier García, Evaristo Castillo, Joseba Orive, Maria Angeles Cabañero, Montse Casas-Cabanas, Javier Carrasco, Marine Reynaud Development of automated high-throughput modules for accelerated discovery of new battery materials
10:20 O10	page 13	Theodoros Dimopoulos (AIT, Austria), Maximilian Wolf, Stefan Edinger, Rachmat Adhi Wibowo Solar cell performance characterization through combinatorial deposition and automatized I-V measurements and analysis
11:00 I2	page 2	Invited speaker: Anjuli Szawiola (NRCan, Canada), Mark Kozdras Training & knowledge dissemination: a case study in building international networks
13:30 O11	page 14	Supriya Nandy (VTT, Finland), Zeb Akhtar, Kimmo Kaunisto, Marko Mäkipää, Tomi Lindroos, Janne Pakarinen Automated defect detection workflow using SEM and ML algorithm: development towards self-driven materials design and innovation

13:50 O12	page 15	Selçuk Yerci (METU, Turkey) , Konstantin Tsoi Bayesian optimization with experience for fast development of monolithic tandem solar cells: simulation case study
14:10 O13	page 16	Michael Eikerling (FZ-Jülich, Germany) , Kouros Malek Accelerating the design and integration of electrocatalyst materials for hydrogen technologies with theory and computation
14:30 O14	page 17	Mauro Palumbo (UniTo, Italy) , Giancarlo Beltrame, Matthew Witman, Erika Dematteis, Vitalie Stavila ML assisted development of metallic hydrides
14:50 O15	page 18	Filippos Sofos (UTH, Greece) , Theodoros E. Karakasidis Materials properties extraction with interpretable artificial intelligence

Poster sessions

P1	page 19	Oleg Oliikh (KNU, Ukraine) , Oleksii Zavhorodnii Characterization of impurity contamination in solar cells with the assistance of machine learning
P2	page 20	Pablo Alvarez (Uni Oviedo, Spain) , V. García-Suárez, R. Iglesias, P. Nieves, A. Otero-de-la-Roza Advanced materials for hydrogen liquefaction and transportation
P3	page 21	Leonarda Liotta (ENEA, Italy) , M. Celino, S. Ferlito, S. Giusepponi, E. La Greca, F. Deganello, C. Aliotta Toward the IEMAP: database implementation with perovskite oxide materials for electrolyzers
P4	page 22	Lesia Chepela (KNU, Ukraine) , Pavlo Lishchuk, AlinaVashchuk, Sergiy Rogalsky, Mykola Borovyi, David Lacroix, Mykola Isaiev Thermal conductivity study of nanocomposite systems made of porous silicon and liquids
P5	page 23	José A. Moriñigo (CIEMAT, Spain) , Andrés Bustos, Rafael Mayo-García Novel ideas in preconditioning iterative solvers for PDEs solving
P6	page 24	Ali Ercetin (Bandirma U, Turkey) , Oguzhan Der Integrating experimental and computational techniques for enhanced characterization of material properties: A focus on dislocation densities and residual stresses
P7	page 25	Martina Palermo (UniRoma, Italy) , Antonino Laudani, Gabriele Maria Lozito, Francesco Pattini, Stefano Rampino An equivalent circuit model based analysis for the energy conversion chain from PV source with supercapacitor as DC-link
P8	page 26	Carlos Nieto-Draghi (IFP Energies Nouvelles, France) , Benoît Creton, Xavier Martin, Johan Chaniot, Maxime Moreaud A New Class of Descriptors for Nanoporous Materials and its Applications to Classification and CO ₂ Gas Adsorption int Zeolites