

MoD-PMI 2025

Monday 26 May 2025

invited - Press Room (09:35 - 10:35)

time	[id] title	presenter
09:35	[21] Alternative plasma facing material for nuclear fusion reactors	GONZALEZ-ARRABAL, Raquel
10:05	[18] Experiments and modeling of hydrogen isotope inventory in damaged tungsten	KOBAYASHI, Makoto

invited - Press Room (11:25 - 12:55)

time	[id] title	presenter
11:25	[44] A foundation model for atomistic materials chemistry	CSANYI, Gabor
11:55	[14] From Grains to Gigabytes: Generating Massive Virtual Specimens for Irradiation Damage Study	Dr SHIN, Younggak
12:25	[39] Point-Defect-Induced Metastable Phase Diagrams	NASTAR, Maylise

invited - Press Room (14:30 - 15:30)

time	[id] title	presenter
14:30	[53] Detection of defects in displacement-damaged tungsten and iron	MARKELJ, Sabina
15:00	[54] Positron Annihilation Spectroscopy for vacancy defects studies in irradiated tungsten: Combination of modelling and experiments for vacancy size distribution and impurities interaction determination	Dr BARTHE, Marie-France

invited - Press Room (16:20 - 17:20)

time	[id] title	presenter
16:20	[49] Adsorption and in-diffusion of Hydrogen at metal and metal oxide surfaces	FUKUTANI, Katsuyuki
16:50	[3] Interface-induced enhanced deuterium plasma-driven permeation in chemical vapor deposition tungsten-copper composite	CHENG, Long

Tuesday 27 May 2025

invited - Press Room (09:00 - 10:00)

time	[id] title	presenter
09:00	[36] Quantum-accurate large-scale atomistic simulation of fusion materials with LAMMPS and FitSNAP	THOMPSON, Aidan
09:30	[60] Multiscale modeling of diffusion phenomena in nuclear fuels : from the atomic scale to phase-field polycrystalline microstructure evolution simulations	MESSINA, Luca

invited - Press Room (11:00 - 12:00)

time	[id] title	presenter
11:00	[58] Machine Learned Interatomic Potentials for Extreme Environments	JANSSEN, Jan
11:30	[47] Towards Advanced Wall Modeling Using Machine Learning and Its Integration with Neutral Transport Simulations	SAITO, Seiki

invited - Press Room (13:50 - 14:50)

time	[id] title	presenter
13:50	[59] GRACE universal interatomic potential for materials discovery and design	DRAUTZ, Ralf
14:20	[9] Sensitivity analysis and optimization of multi-scale models for microstructural evolution in metal materials under neutron irradiation	YANG, Zhangcan

invited - Press Room (15:50 - 16:20)

time	[id] title	presenter
15:50	[8] MD simulations of high-dose irradiation in Tungsten: The Role of Defect Boundary & Morphology	BHARDWAJ, Utkarsh

Wednesday 28 May 2025

invited - Press Room (09:00 - 10:30)

time	[id] title	presenter
09:00	[19] Deuterium trapping and release from high-temperature ion irradiated tungsten: experiments and reaction-diffusion simulations	ZIBROV, Mikhail
09:30	[11] Deuterium Retention Behavior in Tungsten After Plasma Exposure at Varying Temperatures	ZHU, Xiu-Li
10:00	[52] Deuterium effect on defect evolution in tungsten, from bulk to surfaces	GRANBERG, Fredric

invited - Press Room (11:10 - 11:40)

time	[id] title	presenter
11:10	[48] Investigating the Influence of Helium on Screw Dislocation Mobility in Tungsten	NUTTER, Matt