Session Program

Apr 16 – 18, 2024

Workshop: Hydrogen Analysis by Atom Probe Tomography

Poster

Max-Planck-Institut für Eisenforschung GmbH, Room 203 (large seminar room)
Max-Planck-Str. 1 40237 Düsseldorf

Tue, April 16

12:30 PM

Poster

Session |
Location: Max-Planck-Institut für Eisenforschung GmbH, Room 203 (large seminar room), Max-Planck-Str. 1 40237 Düsseldorf

12:30 – 12:40 PM

Micro- to atomic-scale characterisation of hydrogen ingress at the oxide/metal interface of nuclear Zr-alloys

Speaker
Mr Wenyu Zhang

12:40 – 12:50 PM

Ultra-lightweight compositionally complex alloys with large ambient-temperature hydrogen storage capacity

Speaker
Yuanyuan Shang

12:50 – 1:00 PM

Hydrogen Trapping in Transition Iron Carbides in Martensitic Advanced High Strength Steels

Speaker
Madyson Canulette

1:00 – 1:10 PM

Enhancing grain boundary cohesion by B-doping mitigates H-induced intergranular failure

Speaker
Mohamed Elkot

1:10 – 1:20 PM

The unexplored behavior of D/H at semi-coherent austenite-ferrite phase boundaries

Speaker
Ms Xizhen Dong

1:20 – 1:30 PM

Electron irradiation-caused hydrogen segregation on Al-Mg alloy grain boundaries

Speaker
Dr Xinren Chen

1:30 – 1:40 PM

The mechanism and challenges of hydrogen detection with SKP and SKPFM

Speaker
Mr Bilgehan Murat Sesen

1:40 – 1:50 PM

Role of diffusive hydrogen on the mechanical behavior of BCC FeCr alloys by in situ nanoindentation

2:00 PM

Speaker
Dr Jing Rao

Wed, April 17

12:30 PM
2:30 PM

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