

Code	Topic	Presenter	Title
TuP-001	M3	Jianwei Ren	Shaped Chromium-based Metal-Organic Frameworks (Cr-MOFs) for Hydrogen Storage Applications
TuP-002	M3	Bin Hong Liu	Catalyzed Hydrogen Storage Reaction of $2\text{LiH} + \text{MgB}_2$
TuP-003	M3	Yuki Nakagawa	Investigation of dehydrogenation processes of ammonia borane and metal hydride composites
TuP-004	M3	Bao Zhang	Hydrogen storage properties and microstructural evolution of the mixtures $\text{MgH}_2\text{-Li}_3\text{N}$ with different ratios
TuP-005	M3	Taihei Aoki	Thermodynamics of ammine complex of Metal Halide and Borohydride
TuP-006	M3	Chiara Milanese	Hydrogen Storage Properties of Transition Metals Decorated Li-Fullerides
TuP-007	M3	Sheng Guo	Direct Hydrogenation of Li-Mg Alloy by High-energy Reactive Milling
TuP-008	M3	Tom Wood	Producing Hydrogen from Ammonia Using Sodium Amide
TuP-009	M3	Didier Blanchard	A Class of Superior Ammonia Storage Materials Based on Solid Solution Barium Strontium Chloride Salts
TuP-010	M4	Andrew Goudy	Comparative Studies of Sticking Efficiencies in Gas Adsorptions Analysis on Selected Metal Organic Frameworks
TuP-011	M4	Darryl Pyle	Hydrogen Adsorption Characteristics of Magnesium Combustion Derived Graphene at 77 and 293 K
TuP-012	M4	Hirokazu Kobayashi	Hydrogen-storage Properties of Pd Nanocrystals covered with Metal-organic Framework
TuP-013	M4	Zeric Hulvey	Neutron Diffraction of Hydrogen Adsorption in Metal-Organic Frameworks at High Pressures
TuP-014	M4	Israel Savaris	Morphological Studies on the Formation of TiO_2 Nanotubes Arrays: Improvements in the Photocatalytic Response for Hydrogen Production
TuP-015	M4	Stephen Lyth	Hydrogen Storage on Defective Graphene Foam
TuP-016	M4	Christos Tampaxis	Hydrogen storage properties of Pd-doped thermally oxidised single wall carbon nanohorns
TuP-017	M4	Ezgi Dundar-Tekkaya	The Effect of Pd Loading on the Hydrogen Storage Capacity of Templated Porous Carbon Structures Grown in MCM-41
TuP-018	M4	Yinghe Zhang	Hydrogen storage properties of nanostructured graphite-based materials
TuP-019	M4	Ian Morrison	Hydrogen Interaction with MOF-5 using Dispersion Corrected DFT for a Correct Interpretation of Rotational Inelastic Neutron Spectra

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TuP-020	A1	Mykhaylo Lototskyy	Distributed "Hybrid" MH-CGH ₂ System for Hydrogen Storage and its Supply to LT PEMFC Power Modules
TuP-021	A1	Tai Sun	The Integrated Metal Hydride System for the Application of Fuel Cell
TuP-022	A1	Jürgen Danzberger	Surface Modification of Mg Materials based on Ultra Violet Imprint Lithography for Faster Kinetics in H ₂ De- and Absorption
TuP-023	A1	Shahrzad Mohammadshahi	Optimization of Cooling Fins for Metal-Hydrogen Storage Tanks
TuP-024	A1	Satya Sekhar Bhogilla	Performance Analysis of Metal Hydride Based Hydrogen Storage Tanks with Various Heat Exchange Options
TuP-025	A1	Oliver Metz	Metal hydride Tank Designs for in situ Neutron Radiography (NR) and Tomography (NCT) Experiments
TuP-026	A1	Maximiliano Melnichuk	Characterization of a thermally optimized hydride container
TuP-027	A1	Djafar Chabane	Metal hydrides for optimal hydrogen storage system of fuel cell electrical vehicles
TuP-028	A1	Tatsuya Fuura	Development of hybrid hydrogen tank
TuP-029	A1	Prakash C Ghosh	Transient modeling and simulation of hydrogen supply from a metal hydride tank
TuP-030	A1	Giovanni Capurso	Static and Dynamic Performance Tests on Room Temperature Hydride Tank
TuP-031	A3	Hiroshi Inoue	High Capacity Hydrogen Storage Alloy Negative Electrodes for Use in Nickel-Metal Hydride Batteries
TuP-032	A3	Youhei Ariga	Electrochemical Properties of Ti ₄₉ Zr ₂₆ Ni ₂₅ -XPdX Quasicrystals Produced by Mechanical Alloying
TuP-033	A3	Koji Kawahito	Electrochemical charge-discharge properties of MgH ₂ via LiBH ₄ solid electrolyte
TuP-034	A3	Ihor Zavaliy	Phase-Structural and Electrochemical Properties of the R ₂ Mg(Ni,Co) ₉ -Based Electrode Materials for Ni-MH Batteries
TuP-035	A3	Zhou Peng Li	Porous carbon as anode and cathode catalyst supports for direct borohydride fuel cell
TuP-036	A3	Judith Monnier	Characterisation Of Corrosion Products Of (La, Mg) ₂ Ni ₇ -Type Hydrogen Storage Alloys For Nickel-Metal Hydride Batteries And Influence Of Magnesium
TuP-037	A3	Berke Piskin	Development of CaNi ₅ Compounds for Metal Hydride Batteries
TuP-038	A4	Kazuhiro Ishikawa	Effects of Surface Oxidation on Hydrogen Permeability of Nb-TiNi Two-phase Alloy
TuP-039	A4	Myung Jin Lee	Synthesis and Evaluations of hydrogen permeability on TCN-Ni composite membranes by sol-gel process

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TuP-040	A4	Yoshihide Saeki	Relationship between Microstructure and Hydrogen Permeability in Nb-TiNi Alloys
TuP-041	A4	Shahrouz Nayebossadri	Zr-Based Amorphous Hydrogen Separation Membranes Fabricated by Magnetron Sputtering
TuP-042	A4	Yuki Nakamura	Alloying effects on hydrogen permeability of V without Pd overlayer
TuP-043	A4	Fatih Pişkin	Combinatorial Thin Film Membranes for Hydrogen Separation
TuP-044	A4	Naser Al-Mufachi	Effects of Thin Film Pd Deposition on the Hydrogen Permeability of Rolled Pd60Cu40 Membranes
TuP-045	A5	Nikolay Anfilov	APPLICATION OF METAL HYDRIDES AS BLOWING AGENTS FOR METAL FOAM MANUFACTURING
TuP-046	A5	Ekaterina Stepanova	Effect of Hydrogen on the Structural and Phase State and Deformation Behavior of the Ultrafine-Grained Zr-1Nb Alloy
TuP-047	A5	Victor Kudiiarov	Influence of surface structure on hydrogen interaction with Zr-1Nb alloy
TuP-048	A5	Evgeniy Merson	Application of Acoustic Emission Method for Investigation of Hydrogen Embrittlement Mechanism in the Low-Carbon Steel
TuP-049	A6	Ferry Anggoro Ardy Nugroho	PdAu Alloy Nanoparticles for Nanoplasmonic Hydrogen Sensing
TuP-050	A6	Kouji Sakaki	Development of Hydrogen Storage Alloys for a Soft Actuator Device in Medical Rehabilitation
TuP-051	A6	Minako Hosono	Development of a Hand-Size Soft Actuator Utilizing Hydrogen Storage Alloy
TuP-052	A6	Satoshi Akamaru	Sensing of hydrogen in gas phase using ferromagnetic Pd-Co alloy
TuP-053	A6	Theo Friedrich	Hydrogen Production, Storage and Purification using the Steam Iron Process
TuP-054	A6	Inga Buerger	Investigation of Long Term Cycle Stability – First Results of metal hydride composites
TuP-055	F1	Hoda Emami	Investigating the effect of severe plastic deformation on the hydrogenation properties of TiFe for stationary applications
TuP-056	F1	Kazutoshi Miwa	Ab-initio Molecular Dynamics Simulations with Fractional Atomic Occupation Numbers
TuP-057	F1	Stepan Lushnikov	Interaction of V-M (M-Cu, Co and W) alloys with hydrogen under high pressure
TuP-058	F1	Stepan Lushnikov	Interaction of V _{1-x} M _x (x=0.1-0.3) alloys with hydrogen under high pressure
TuP-059	F1	Elena Anikina	Calorimetric study of hydrogen interaction with Sm ₂ Fe ₁₇
TuP-060	F1	Naoki Fukumuro	Hydrogen-Induced Superabundant Vacancies in Electrodeposited Fe-C Alloy Films

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TuP-061	F1	Andrey Lider, Viktor Kudiiarov	Hydrogenation-induced Microstructure Changes in Titanium
TuP-062	F1	Toyoto Sato	Synthesis, Crystal Structure and Dehydrogenation Reaction on a Mixed Alkali and Alkaline-earth Metal Alanate $\text{LiCa}(\text{AlH}_4)_3$
TuP-063	F1	Mark Conradi	Fluorite MgD_2 in a MgD_2 - TiD_2 Composite
TuP-064	F1	Stuart Campbell	Improving the connection between neutron scattering and computational modeling
TuP-065	F1	Stuart Campbell	Mantid - Data Reduction and Visualization
TuP-066	F1	Julien François	Kinetics and Thermodynamics of Hydrogen Sorption as Studied by Hyphenated Calorimetric and Volumetric Techniques
TuP-067	F1	Sotirios Droulias	Tailoring the Properties of Metal Hydrates through Superlattice Growth.
TuP-068	F1	Kazutaka Ikeda	In-situ Diffraction Measurements of Hydrogen Storage Materials by High-Intensity Neutron Total Diffractometer, NOVA
TuP-069	F2	Ko Tamehiro	A Study on Hydrogen Absorption and Desorption Kinetics of Hydrogen Storage Alloys at Temperatures from 77K to 298K.
TuP-070	F2	Shinnosuke Tokuhira	Effects of CsOH Pretreatments on the Hydrogen Absorption Kinetics of a Mm-Ni Based Hydrogen Storage Alloy
TuP-071	F2	Hitoshi Inokawa	Catalysis of Thermally Stable Nickel Nanoparticles for Ammonia Decomposition
TuP-072	F2	Miranda Camping	The desorption of hydrogen from uranium hydride
TuP-073	F2	Daiju Matsumura	Observation of Dynamic Structure during Hydrogenation Reaction for Pd Nanoparticles by using Real-Time-Resolved X-ray Absorption Fine Structure Spectroscopy
TuP-074	F2	Helen Fell	The Hydriding Kinetics of Cerium and Reaction Site Morphology
TuP-075	F3	Olga Babanova	Nuclear Magnetic Resonance Study of Atomic Motion in New Bimetallic Perovskite-Type Borohydrides $\text{RbCa}(\text{BH}_4)_3$ and $\text{CsCa}(\text{BH}_4)_3$
TuP-076	F3	Konstantin Klyukin	Ab initio simulation of hydrogen mobility in hcp, bcc, fcc magnesium lattice
TuP-077	F3	Hideaki Iwaoka	Effect of Grain Boundaries on Hydrogen Diffusion in Ultrafine-Grained Palladium
TuP-078	F3	Yolanda Sadikin	Structural Analysis of Possible Lithium Migration Paths in Borohydrides
TuP-079	F3	Hiroshi Ogawa	Atomistic Simulation of Hydrogen Dynamics near Dislocations in Vanadium Hydrides

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TuP-080	F3	Alexey Volodin	Hydrogen Diffusion in La _{1.5} Nd _{0.5} MgNi ₉ Alloy Electrodes of the Ni-MH Battery
TuP-081	F3	Sveinn Ólafsson	Conductivity of H and D Rydberg matter condensed on ultrathin metal films.
TuP-082	F3	Alicja Klimkowicz	Chemical Diffusion and Surface Exchange in Ln-Ba-Sr-Co-Fe Perovskite System in Hydrogen- and Oxygen-containing Atmospheres
TuP-083	F3	Anna Vyvodtceva	Nuclear magnetic resonance study of hydrogen diffusion in the transitional metal alloys lattice
TuP-084	F3	Shun Dekura	Study on the States of α -phase Palladium Hydride by in situ Solid-State ¹ H NMR Measurement Under Controlled Hydrogen Gas Pressure
TuP-085	F3	Asuka Suzuki	Analysis of hydrogen mobility in Nb-based alloy membrane in view of new description of hydrogen permeability based on hydrogen chemical potential
TuP-086	F3	Wen Huang	Diffusion of Hydrogen in Nano-confined Vanadium film
TuP-087	F4	Allan Abraham Bustria Padama	Hydrogen Atom Absorption in Pd(110) Surface
TuP-088	F4	Shigehito Isobe	Theoretical and experimental synthesis of hydrogenated iron clusters over graphene
TuP-089	F4	Abel Salam Awad	Hydrogen production from hydrides : microwaves and hydrolysis methods
TuP-090	F4	Ryota Gemma	Atom Probe Tomography (APT) Analysis of Deuterium-loaded V/Cr Thin Films
TuP-091	F4	Luke Hughes	Buckling of Mg films due to hydrogenation stress and its effect on sorption behaviour
TuP-092	F4	Hiroyuki T. Takeshita	Effect of Particle Size on Dehydrogenation of MgH ₂
TuP-093	F4	Yeuda Greenbaum	Minimally strained hydride nucleation on a strained Gd/W(110) surface
TuP-094	F4	Shunsuke Kato	In Situ XPS Investigation of a Platinum Catalyst Supported on Ceria Nanocubes under a Hydrogen Atmosphere
TuP-095	F5	Daniel Sethio	Computational Study of Spectroscopic Properties of Different Borohydride Species
TuP-096	F5	Takayoshi Ishimoto	Composition dependence of H storage capacity for Rh-Ag alloy
TuP-097	F5	Daniel Azofeifa	Parametrization of the dielectric function of Pd thin films as function of film thickness, temperature and hydrogen absorption
TuP-098	F5	Daniel Azofeifa	Hydrogen concentration and dielectric function of nanostructured Pd thin films calculated from optical transmission

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TuP-099	F6	Dalin Sun	Formation of Mg ₂ Ni with enhanced kinetics: Using MgH ₂ instead of Mg as a starting material
TuP-100	F6	Alexander Surrey	Multi-Slice Simulations for In-situ TEM Studies of Nanostructured Magnesium Hydride at Elevated Hydrogen Pressures of 1 bar
TuP-101	F6	Colin Webb	The Effect of Uncertainties and Calibrations on Hydrogen Uptake Measurements
TuP-102	F6	Stephan W.H. Eijt	Monitoring vacancies, nanopores and metal-to-insulator transitions in Mg-Ti films and Mg hydride nanoparticle layers using positrons
TuP-103	F6	Boris Tarasov	Synthesis of Hydrides by Interaction of Intermetallics with Ammonia
TuP-104	F7	Yuji Kunisada	Delocalized Adsorption States of Hydrogen Isotopes on fcc-Fe(111) Surfaces
TuP-105	F7	Mathieu Segard	³ He NMR measurements on palladium samples aged under tritium
TuP-106	F7	František Lukáč	Stress Release during Cyclic Loading of Thin Palladium Films
TuP-107	F7	David Wilkinson	H/D exchange in micron powder Pd H/D measured using neutron diffraction
TuP-108	F7	Simon Owens	Kinetics of hydrogen isotope exchange over solid storage media
TuP-109	F7	Marek Tkacz	Low Temperature Raman Measurements of AlH ₃ and AlD ₃ Systems
TuP-110	F7	Ian Robinson	Monte Carlo Simulations of Hydrogen Isotopes in Palladium
TuP-111	M1	Vasilii Tihonov	Analysis of Hydrogen Isotope Mixed Gas at High Pressure Using Raman Spectroscopy
TuP-112	F8	Valérie Paul-Boncour	Properties of ZrNi ₅ hydride and deuteride synthesized under high deuterium pressure
TuP-113	F8	Valentina Degtyareva	Crystal Structure of the Gold Hydride
TuP-114	F8	Naruki Endo	Hydrogenation of CsCl-type AlTM (TM = Fe, Co, Ni) alloys at high pressures and high temperatures
TuP-115	F8	John Proctor	Solubility of hydrogen in Zircaloy-4 nuclear fuel cladding