

Code	Topic	Presenter	Title
ThP-001	M1	Jin Nakamura	Preparation of cost-effective hydrogen storage materials for on board application
ThP-002	M1	Colin Webb	The Effect of Carbon Additives on the Hydrogen Uptake of Light Metals
ThP-003	M1	Sergey Mitrokhin	Effects of Scaling in Metal Hydride Materials for Hydrogen Storage and Compression
ThP-004	M1	Jean-Benoît Denis	Influence of impurities on the performance of a metal hydride
ThP-005	M1	Ulrich Ulmer	Development of low-cost hydrogen storage materials – intrinsic effects of low-purity raw materials
ThP-006	M1	Vaclav Paidar	The effect of internal hydrogen pressure on the energetics of hydrides
ThP-007	M1	Pavel Fursikov	Experimental and Quantum Chemical Studies of Hydrogen Interaction with Nanostructured Composites and Clusters based on Light Metals
ThP-008	M1	Akihiko Machida	In-situ and time-resolved measurements on hydrogen absorption/desorption processes of hydrogen absorbing alloys using synchrotron radiation x-rays
ThP-009	M1	Nor Diana Zulkifli	Hydrogen Storage Properties in Pd-based Nanoalloys
ThP-010	M1	Oksana Melikhova	Effect of hydrogen on generation of lattice defects in shock-loaded Pd
ThP-011	M1	Arnaud Fabre	Static and dynamic response of a Pd-coated microcantilever exposed to hydrogen
ThP-012	M1	Martin Deutges	In-situ Nanoindentation of Palladium-Hydrogen Alloys
ThP-013	M1	Tatsuki Tsutsumi	Theoretical analysis for interface interaction and hydrogen absorption of Pd@HKUST-1 hybrid material
ThP-014	M1	Hang Liu	Hydrogen sorption behaviour of carbon-supported Pd nanoparticles
ThP-015	M1	Kenji Iwase	Crystal structure and hydrogen absorption-desorption property of Gd ₂ Ni ₇ with Ce ₂ Ni ₇ -type structure
ThP-016	M1	Stephen Blaxland	Simulating the Surface Stress Effects due to the Initiation and Growth of Uranium Hydride
ThP-017	M1	Sergey Mitrokhin	Influence of Hydrogen and Mechanochemical Activation on the Properties of Nd-Fe-B- and Sm-Fe-N-Type Magnetic Materials
ThP-018	M1	Petr Hruška	Investigation of nanocrystalline and epitaxial Gd films loaded with hydrogen
ThP-019	M1	Hui Wang	Enhanced joint catalysis of YH ₂ /Y ₂ O ₃ on dehydrogenation of MgH ₂
ThP-020	M1	Krystyna Giza	Preparation and Electrochemical Properties of La ₂ (Ni,Co,M,Mg) ₁₀ (M=Al or In) hydrogen storage alloys

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ThP-021	M1	Juliusz Skoryna	XPS Studies of Nanocrystalline $\text{La}_x\text{Ni}_{1-x}$ and $\text{LaNi}_{5-x}\text{Al}_x$ ($x = 0.2, 0.5, 1$)
ThP-022	M1	Evangelis KouloukakisGeorge Karagiorgis	Composition changes of structural and hydrogenation properties of ZrM ₂ type intermetallics for high pressure hydrogen storage applications
ThP-023	M1	Silvie Maskova	Impact of hydrogen absorption on crystal structure and magnetic properties of RE ₂ T ₂ X compounds
ThP-024	M1	Fahim Karimi	Structural impacts of Transition Metal Fluorides on the Reactive Hydride Composites (RHC)
ThP-025	M1	Chul Kim	Deuterium Exchange Dynamics in Zr ₂ NiD _{4.8} Studied by 2H MAS NMR Spectroscopy
ThP-026	M1	Schweke Danielle	Preferred Hydride Growth Orientations on Oxide-coated Gadolinium Surfaces
ThP-027	M1	Marie Trynogga	Investigation of Crack Formation in High-purity Iron
ThP-028	M1	Xin Xiao	Hydrogen in V: isotope effects and site occupancy
ThP-029	M1	Thu Trang Trinh	Apparatus for In-situ Defect Analysis (AIDA) - Investigations on Fe ₆₀ Al ₄₀ Phase transition
ThP-030	M1	Dariusz Rusinek	Structural properties of Ti ₄₅ Zr ₃₈ Ni _{17-x} Mn _x alloys and its deuterides
ThP-031	M1	Anahit Aleksanyan	Formation in Ternary Ti-V-Mn Alloy in the Hydride Cycle, Their Interaction With Hydrogen
ThP-032	M1	Maxim Tsarev	IMPEDANCE SPECTROSCOPY FOR CHARACTERIZATION OF OXIDIZED TITANIUM HYDRIDE POWDERS
ThP-033	M1	Kaveh Edalati	Hydrogen Storage in Nanostructured TiFe Processed by High-Pressure Torsion
ThP-034	M1	Hyunjeong Kim	Reduction and Unusual Recovery in the Reversible Hydrogen Storage Capacity of V _{1-x} Ti _x
ThP-035	M1	Chaoling Wu	Decaying Behavior of V ₄₀ (TiCr) ₅₁ Fe ₈ Mn Hydrogen Storage Alloy with Different Particle Sizes
ThP-036	M1	Itoko Saita	Improvement in Cyclic Stability and Resistance to Water Impurity in Hydrogen of TiFe-Based Alloy by V Substitution
ThP-037	M1	Juliusz Skoryna	Modification of Interlayer Exchange Coupling in Fe/V/Fe Trilayers Using Hydrogen
ThP-038	M1	Lydia Pickering	Ti-V-Mn Based Metal Hydrides for Hydrogen Compression Applications
ThP-039	M1	Alexander Rokhmanenkov	Simulation of behavior hydrogen in titanium hydrogen systems TiH _x
ThP-040	M1	Kandavel Manickam	Effect of Non-stoichiometry on AB ₂ - type Alloys for Improved Hydrogen Storage Properties

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ThP-041	M1	Alexey Postnikov	A STUDY OF SURFACE OF TITANIUM TARGETS FOR NEUTRON GENERATORS
ThP-042	M1	Rolando Pedicini	Interesting Hydrogen Storage Capability in Manganese Oxide
ThP-043	M1	Tomoki Tominaga	HREM Observation and High-Pressure composition Isotherm Measurement of Ti ₄₅ Zr ₃₈ Ni ₁₇ Quasicrystal Powders Synthesized by Mechanical Alloying
ThP-044	M1	Yanghuan Zhang	The hydrogen storage performance of LaMg ₁₁ Ni+x%Ni (x = 100, 200) alloys prepared by mechanical alloying
ThP-045	M1	Koji Tanaka	Formation Mechanism of Micro/nano-structures through Competitive Reactions in Mg/Cu Super-laminate Composites during Initial Hydrogenation
ThP-046	M1	Peipei Liu	Microstructures and Hydrolysis Behaviors of Mg-Ca Hydrides Synthesized by Different Ball-milling Processes
ThP-047	M1	Haizhen Liu	Mg-Al-H Hydrogen Storage Systems: Preparations, Reaction Mechanisms and Hydrogen Desorption Properties
ThP-048	M1	Annalisa Paolone	Study of the hydrogenation/dehydrogenation process in the Mg-Ni-C-Al system
ThP-049	M1	Gulhan Cakmak	Hydrogen Decrepitation of Mg Rich Intermetallics
ThP-050	M1	Liuzhang Ouyang	The Phase Transition and Hydrogen Storage Properties of Mg ₁₇ Ba ₂ compound
ThP-051	M1	Yanshan Lu	Novel Mg-In-Ni Ternary Alloys for Reversible Hydrogen Storage
ThP-052	M1	Valérie Paul-Boncour	Structure and Hydrogen Storage Properties of the NdMgT ₄ (T=Co, Ni) Compounds
ThP-053	M1	Valérie Paul-Boncour	Hydrogen Storage Properties of the RE ₄ MgCo (RE=Y, Nd, Tb) Compounds
ThP-054	M1	Volodymyr Yartys	HYDROGEN ASSISTED PHASE TRANSITION IN A TRIHYDRIDE MgNi ₂ H ₃ SYNTHESISED AT HIGH H ₂ PRESSURES: THERMODYNAMICS, STRUCTURE AND CHEMICAL BONDING
ThP-055	M2	Nils Bergemann	Thermodynamic Properties of Borohydrides Destabilized by Hydrides of Mg-TM Alloys
ThP-056	M2	Valérie Paul-Boncour and Ihor Zavaliy	The Mg ₂ Ni _{1-x} CoxHy (0 < x < 1) Hydrides Obtained by Reactive Milling
ThP-057	M1	Yujie Lv	Effects of Cu on microstructural evolution and hydrogen storage properties of the Mg ₇₇ Ni _{20-x} CuxLa ₃ (x=0, 5, 10) alloys
ThP-058	M1	Xuanli Luo	Microstructure evolution and hydrogen storage properties for Mg-Zn-Y ternary alloy
ThP-059	M1	Anshul Gupta	Enhanced hydrogen storage properties in Mg-based hybrids synthesized by severe plastic deformation

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ThP-060	M1	Yongtao Li	Structural Rearrangement of Mg-containing Superlattices for Superior Hydrogen Storage
ThP-061	M1	Hyeon Man Shin	Evaluations of hydrogenation properties on MgH _x -transition metal fluoride composites by planetary ball milling
ThP-062	M1	Huai-Jun Lin	Hydrogen Storage Property of MgH ₂ Doped with Ce-fluorides
ThP-063	M1	Wei Liu	Size Effects on the Hydrogen Storage Properties of Mg Nanoparticles Synthesised by Electroless Reduction Method
ThP-064	M1	Eki Setijadi	Magnesium Hydrides Nano-objects: Novel Physical and Hydrogen Storage Properties Relationships
ThP-065	M1	Jacques Huot	Effect of Rolling Atmosphere on Sorption Kinetics of MgH ₂
ThP-066	M1	Ying Wang	Different catalytic effects of Ti-based compounds on dehydrogenation properties of MgH ₂
ThP-067	M1	Luis Miguel Sanz Moral	MgH ₂ Pd Nanoparticles Embedded in Silica Aerogel Monoliths
ThP-068	M1	Nataliya Skryabina	Impact of Severe Plastic Deformation and Additives on the Stability of MgH ₂
ThP-069	M1	Miriam Rueda Noriega	Micronized MgH ₂ and MgO by Supercritical Anti Solvent process
ThP-070	M1	Nataliya Skryabina	Electrocatalytic Activity of Mg in Hydrogen Evolution Reaction
ThP-071	M1	Claudia Vargas	Magnesium hydride - Magnesium nanoparticles confined in carbon aerogels
ThP-072	M1	Xuezhang Xiao	Rapid Dehydrogenation of Chemically-Synthesized MgH ₂ Nanocomposites
ThP-073	M1	Andreas Grill	Hydrogen Storage Properties of Mg and Mg-alloys after Severe Plastic Deformation
ThP-074	M1	Pragya Jain	Catalytic Effect of MgF ₂ on hydrogenation properties of MgH ₂
ThP-075	M1	Ewelina Kosciuczyk	MgH ₂ destabilization by the anodic porous alumina impregnation
ThP-076	M2	Yongan Liu	Hydrogen generation from Mg-hydride system
ThP-077	M2	Shivani Agarwal	Effect of ZrCrCo alloy on hydrogen storage properties of Mg
ThP-078	M1	Zhjie Cao	Dual-tuning Effects of In, Al and Ti on the Dehydrogenation Thermodynamic and Kinetic Properties of MgH ₂ using DBDP Milling
ThP-079	M1	Akito Takasaki	Hydrogen Sorption Properties of Magnesium Hydride Catalized Multiply with Carbon and Silicon
ThP-080	M1	Jordan Guichard	Hydrolysis Mechanism of Lithium Hydride
ThP-081	M1	Chubin Wan	Synthesis and Characterization of LiBH ₄ confined in Mg-Coated Mesoporous Carbon for Reversible Hydrogen Storage

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ThP-082	M1	Christos Paterakis	Alkali metal borohydride/ LiH composites for Energy Storage Applications
ThP-083	M1	Binayak Roy	Effect of Ni- alloys on thermal decomposition of ammonia borane
ThP-084	M2	Hai-Wen Li	A Novel Synthesis Process of Anhydrous Alkali Metal Dodecaborate $M_2B_{12}H_{12}$ (M = Li, Na, K) Using Decaborane $B_{10}H_{14}$
ThP-085	M2	Lixin Chen	Synergetic Effect of Nano-confinement and Nano-catalysis for the Reversible Hydrogen Storage of $LiBH_4$
ThP-086	M2	Elsa Roedern	Thermal decomposition of $Mn(BH_4)_2 - M(BH_4)_x$ and $Mn(BH_4)_2 - MH_x$ composites with M = Li, Na, Mg and Ca
ThP-087	M2	Bjarne R. S. Hansen	Nanoconfinement of $LiBH_4$ - KBH_4 Eutectic Composite Systems
ThP-088	M2	Yijing Wang	Synthesis of Trimetallic Core-Shell Catalysts for Hydrolytic Dehydrogenation of Ammonia Borane
ThP-089	M2	Arndt Remhof	Revisiting the Role of Dodecaborates
ThP-090	M2	Kasper Møller	Bimetallic Borohydrides Synthesized from $Sr(BH_4)_2$ and Alkali Metal Borohydrides
ThP-091	M2	Elisabeth Grube	Investigation Of γ - $Mg(BH_4)_2$ -X Composites, X = LiH, NaH, CaH_2 , MgH_2
ThP-092	M2	Yigang Yan	Synthesis and Stability of Dodecaborates $M(B_{12}H_{12})_n$ (M = Mg, Y)
ThP-093	M2	Asem Ampoumogli	Hydrogen Desorption and Cycling Properties of Eutectic Borohydrides - Mesoporous Carbons Composites
ThP-094	M2	Oliver Deavin	Investigation into the destabilisation of $LiBH_4$ with $CaNi_5$
ThP-095	M2	Mykhaylo Lototskyy	Magnesium-Based Hydrogen Storage Nanomaterials Prepared by High Energy Reactive Ball Milling in Hydrogen at the Presence of Mixed Titanium - Iron Oxide
ThP-096	M2	Morten Brix Ley	Electrochemical performance of $LiM(BH_4)_3Cl$ (M = La, Ce, Gd)
ThP-097	M2	Nicholas Stadie	Supercritical Nitrogen Processing: a Route to Clean Hydrogen Storage in γ - $Mg(BH_4)_2$
ThP-098	M2	Jianmei Huang	Improving dehydrogenation of $LiBH_4$ via modification with poly(methylmethacrylate)
ThP-099	M2	Yuting Wang	Study on dehydrogenation kinetics of $LiBH_4$ via confinement in modified carbon nanotubes
ThP-100	M2	Guanqiao Li	Dehydriding Property of Metal Borohydrides Combined with Mg_2FeH_6
ThP-101	M2	Rapee Gosalawit-Utke	Destabilization of $LiBH_4$ by nanoconfinement in PMMA-co-BM polymer matrix for reversible hydrogen storage
ThP-102	M2	Yohei Ito	Cycle Durability and Factors Disturbing Rehydrogenation for $LiBH_4$ - MgH_2 -Al Composites

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ThP-103	M2	Mingxia Gao	Improved Hydrogen Storage properties of Ca(BH ₄) ₂ +LiBH ₄ composite motivated by LaMg ₃ alloy
ThP-104	M2	Karol Fijalkowski	M(BH ₃ NH ₂ BH ₂ NH ₂ BH ₃) – the missing link in the mechanism of thermal decomposition of light alkali metal amidoboranes
ThP-105	M2	Yushi Chen	Hydrogen desorption properties of a LiBH ₄ - C ₆₀ composite
ThP-106	M2	Wan Si Tang	Altering the Structural Properties of A ₂ B ₁₂ H ₁₂ Compounds via Cation and Anion Modifications
ThP-107	M2	Wojciech Wegner	Mechanochemical synthesis of new rare-earth borohydrides.
ThP-108	M2	Morten Brix Ley	New eutectic xLiBH ₄ – 1-xKBH ₄ (x = 0.7 – 0.75)
ThP-109	M2	Payam Javadian	Hydrogen storage properties of nanoconfined LiBH ₄ -NaBH ₄
ThP-110	M2	Jalaal Hayes	Hydriding and Dehydriding Kinetics of RbH-Doped 2LiNH ₂ /MgH ₂
ThP-111	M2	Yongfeng Liu	Mechanistic investigations of the high-temperature failure of K-based additives for Mg(NH ₂) ₂ -2LiH systems
ThP-112	M2	Antonio Santoru	Synthesis, characterization and reaction kinetics on the K/Mg amides-based system
ThP-113	M2	He Fu	In situ hybridization of LiNH ₂ -LiH-Mg(BH ₄) ₂ nano-composites for enhanced hydrogen storage properties
ThP-114	M2	Matthew Howard	Hydrogen Storage Properties and Ionic Conductivity in Lithium nitride Bromide Systems
ThP-115	M2	Peter Bramwell	Preparation of Carbon Supported Lithium Amide
ThP-116	M2	Ping Li	Catalytic Effects of ZrC Additions on the Hydrogen Storage Properties of LiAlH ₄
ThP-117	M2	Mariem Meggouh	Assessing the Performance of Sodium Aluminium Hexahydride as a Hydrogen Storage Material for an Al-alloy Based Tank.
ThP-118	M2	Marc Segales	Enhanced Dehydrogenation in LiAlH ₄ via Nanoconfinement in Porous Carbons
ThP-119	M2	Daniel Krech	Direct Mechanochemical Synthesis of the Complex Aluminum Hydrides of Rb and Cs
ThP-120	M2	Trang Nguyen	Hydrogen Release and Uptake in the Li-Zn-N System
ThP-121	M2	Dag Noréus	Rb ₃ AlD ₆ an unusual alanate featuring an interstitial hydrogen atom position in addition to a well ordered octahedral AlD ₆ complex and 3 disordered complexes

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ThP-122	M2	Alberto Albinati	Inelastic Neutron Scattering Studies on Water Exposed Sodium Alanate: Is "S105" Relevant to Enhanced Hydrogen Cycling Kinetics?
ThP-123	M1	Hai-Wen Li	Composites of Light-metal Amides and Hydrides as Hydrogen Storage Systems
ThP-124	M1	Seda Dolukhanyan	Synthesis of Niobium Aluminides Using Hydride Cycle Method
ThP-125	M2	Philippe Mauron	Hydrogen Sorption in Metal Intercalated Fullerenes
ThP-126	M2	Ankur Jain	Catalytic Modification in Hydrogenation properties of KSiH ₃
ThP-127	M2	Li Li	Enhanced Catalytic Effects of Co@C Additive on Dehydrogenation Properties of LiAlH ₄
ThP-128	M2	Vadim Efimchenko	Hydrogen Solubility in Silica and Silicate Compounds
ThP-129	M2	Andrew Kirk	Raman spectroscopy and imaging of lithium hydride and corrosion products