

Poster Presentations

Monday Session 19.07

Mo-1	Mayilyan	Davit	Republic of Armenia	F2	Hydrogen interaction with Ti-Zr-Hf alloys in the SHS mode
Mo-2	Onanko	Anatoliy	Ukraine	F2	INFLUENCE OF HYDROGEN ON INELASTICITY-ELASTICITY PROPERTIES OF Ti3Al ALLOY AND SiO2
Mo-3	Zhang	Junxian	France	F2	Crystal structure analysis of Li3-xMxN(M=Co, Ni) synthesized by SPS for hydrogen storage
Mo-4	Laversenne	Laetitia	France	F2	Electrochemical hydrogen charging of sigma phase investigated by in-situ neutron diffraction
Mo-5	Palumbo	Oriele	Italy	F2	The tetragonal-to-orthorhombic phase transformation in ammonia borane and in its deuterium substituted compounds
Mo-6	Kustov	Aleksander	Russian Federation	F2	ANALYSIS OF PROCESSES IN METAL MATERIALS CAUSED BY PRESENCE OF HYDROGEN WITH THE HELP OF METHODS OF ACOUSTOMI-CROSCOPY DEFECTOSCOPY
Mo-7	Mikhaylushkin	Arkady	Sweden	F2	The influence of contamination by light elements on the structural stability of CoSn under compression
Mo-8	Zhurba	Volodimir	Ukraine	F2	Hydrogen Diagnostics of Structural States in Steel 18Cr10NiTi
Mo-9	Riabov	Alexander	Ukraine	F2	In situ synchrotron diffraction study of the La0.5Ce0.5Ni4Co – H2 system
Mo-10	Webb	Jim	Australia	F2	In-situ X-ray powder diffraction cell for hydrogen absorption studies
Mo-11	Degtyareva	Valentina	Russian Federation	F2	Hydrogenation of Pd-Ni and Pd-Cu Alloys: Effect on the Interatomic Interactions
Mo-12	Avdyukhina	Valentina	Russian Federation	F2	The role of hydrogen and vacancies in structural transformations of palladium and its alloys
Mo-13	Efimchenko	Vadim	Russian Federation	F2	New clathrate phase in the water-hydrogen system
Mo-14	Bodega	Julio	Spain	F2	Synthesis of ZrCr2 Laves phases by arc melting in Ar/H2 plasmas
Mo-15	Sørby	Magnus	Norway	F2	Thermal decomposition and reversibility of Ca(BH4)2
Mo-16	Nekrasova	Anna	Russian Federation	F2	Hydrogen dissolution in Pd nanoparticles effect on their structure in metal-carbon nanocomposite
Mo-17	Zavaliy	Ihor	Ukraine	F2	Structural peculiarities of Zr(Hf)4Fe2OxDy deuterides
Mo-18	Koval'chuck	Ihor	Ukraine	F2	Hydrogenation of pseudo-binary Ho1-xMxFe2 compounds (M = Zr, Hf; 0 ≤ x ≤ 0.2)
Mo-19	Yamazaki	Saishun	Japan	F2	Lattice strain formation in Ti-V-Mn during the first absorption and desorption
Mo-20	Kume	Tetsuji	Japan	F2	Pressure-Induced Phase Transformation of LaH3 Studied by Raman and UV-Visible Absorption Spectroscopy

Mo-21	Fokin	Valentin	Russian Federa	F2	Investigation of interaction of Ti–Al alloys with ammonia
Mo-22	Degtyareva	Olga	United Kingdon	F2	Formation of transition metal hydrides at high pressures
Mo-23	Saito	Takeshi	Japan	F2	Hydrogenation of TiNi shape memory alloy produced by mechanical alloying
Mo-24	Zvyagintseva	Alla V.	Russian Federa	F2	Boron - impurity trap for atomic hydrogen in nickel alloys
Mo-25	Zvyagintseva	Alla V.	Russian Federa	F2	Hydrogen capacity of structural defects in the nickel coatings doped with boron
Mo-26	Iwasieczko	Wacław	Poland	F2	Influence of hydrogen on magnetic arrangement of the intermetallic compounds RNi (R=Sm, Tb, Dy)
Mo-27	Orlova	Maria	France	F2	Formation of 2NaBH ₄ /MgH ₂ system from 2NaH/MgB ₂ by hydrogenation
Mo-28	Rodchenkova	Natalia	Russian Federa	F3	Modelling of Discrete TDS-Spectrum of Hydrogen Desorption
Mo-29	Soloninin	Alexei	Russian Federa	F3	Nuclear Magnetic Resonance Study of Hydrogen Motion in A15-Type Ti ₃ SbH _x
Mo-30	Paolone	Annalisa	Italy	F3	Structural phase transitions and dynamic relaxation processes in calcium borohydride
Mo-31	Costa	Benilde	Portugal	F3	PAC study of hydrogen diffusion in Hf ₇ Ni ₁₀ combined with TiV _{0.8} Cr _{1.2}
Mo-32	Asano	Kohta	Japan	F3	Site occupation and diffusion of hydrogen in V _{1-x} Mox-H (0 ≤ x ≤ 0.1) monohydride phases studied by ¹ H NMR
Mo-33	Blanchard	Didier	Denmark	F3	Rotational and diffusional dynamics in calcium borohydride from DFT and quasi elastic neutron scattering
Mo-34	Prigent	Jocelyn	France	F3	Hydrogen trapping properties of Zr-based intermetallic compounds in the presence of contaminant gases
Mo-35	Uchida	Helmut Takał	Germany	F3	Hydrogen absorption behavior of nano-crystalline Mg thin films
Mo-36	Rakitin	Maxim	Russian Federa	F3	Ab initio study of influence of Pd, Ti, Cr, and Mn atoms on dissolution energy of hydrogen in bcc iron
Mo-37	Takenobu	Wakasugi	Japan	F5	In-situ TEM Observation of Hydrogenation / Dehydrogenation Reaction with Environmental Cell
Mo-38	Malka	Iwona	Poland	F5	Microstructure and hydrogen storage properties of magnesium hydride with zirconium and niobium fluoride additives after cycling loading
Mo-39	Fomina	Larisa	Russian Federa	F5	The Activation of Hydrogen by Fractal d-Metal Nanoparticles
Mo-40	Drulis	Henryk	Poland	F5	Kinetics of ytterbium hydride decomposition
Mo-41	Davids	Moegamat W	South Africa	F5	Chemical Surface Modification for the Improvement of the Hydrogenation Kinetics and Poisoning Resistance of TiFe and MmNi ₅

Mo-42	Filippi	Matteo	The Netherland	F5	Sodium alanate thin films grown in-situ by reactive sputtering
Mo-43	Mazzolai	Giovanni	Italy	F5	Hydrogen Absorption by α -Scandium at High Temperature
Mo-44	Chen Yungui	Yungui	China	F5	Hydrogen Generation by Hydrolysis of Mg ₁₇ Al ₁₂ Hydride-Salt Mixtures
Mo-45	Andrieux	Jerome	France	F5	Dehydrogenation properties of catalyzed LiBH ₄ -MgH ₂ composite probed by in-situ Synchrotron X Ray Diffraction
Mo-46	Morinaga	Masahiko	Japan	F5	Atomization Energy Approach to the Quantitative Evaluation of Catalytic Activities of Metal Oxides during Dehydrogenation of MgH ₂
Mo-47	Rahman	Md. Wasikur	Italy	F5	Tailoring MgH ₂ with Ternary Oxides of Mg-Nb System Towards Fast Hydrogen Sorption Kinetics
Mo-48	Llamas-Jansa	Isabel	Norway	F5	Catalysts in Ca(BH ₄) ₂
Mo-49	Wang	Yongming	Japan	F5	Compositional Effect on the Kinetics of LiH-Mg(NH ₂) ₂ Reaction
Mo-50	Evard	Evgeny	Russian Federa	F5	Hydride decomposition characterization by means of "morphological trajectory" method. Application to AlH ₃ .
Mo-51	Getzlaff	Mathias	Germany	F5	Coadsorption of H and CO on Gd(0001)
Mo-52	Voyt	Alexey	Russian Federa	F5	Thermocycling and isothermal studies of kinetics of Yttrium hydrides transformation YH ₃ ↔YH ₂
Mo-53	Li	Zhinian	China	F5	Improved hydrogen storage performance of the LiNH ₂ -MgH ₂ -LiBH ₄ system by addition of MCo (M=Ti, Zr) hydride
Mo-54	Mi	Jing	China	F5	Effect of Ti ₃₁ Cr _{15.5} V ₄₅ Fe _{8.5} Ce _{0.5} on desorption kinetics property of NaAlH ₄ doped by Ce hydride
Mo-55	Adamska	Anna	Czech Republic	F6	5f magnetism in UTGe hydrides
Mo-56	Matsuoka	Takahiro	Japan	F6	Electrical Properties of FeH _x under High-Pressures and Low-Teperatures
Mo-57	Sánchez	Carlos	Spain	F6	In-situ optical microscopy study of the absorption and desorption of H ₂ by Mg-Pd-Ni thin films
Mo-58	Nikitin	Sergei	Russian Federa	F6	The effect of hydrogenation on magnetic ordering in Y ₂ Fe _{17-x} Mn _x compounds
Mo-59	Koshkidko	Yuriy	Russian Federa	F6	Effect of hydrogen atoms introduction on magnetic domain structure and magnetocaloric effect of R ₂ Fe ₁₇ intermetallic compounds
Mo-60	Ornat	Maurycy	Poland	F6	The effect of hydrogenation on the electrical resistivity of disordered alloys
Mo-61	Tarasov	Valerii	Russian Federa	F6	Electric Field Gradients in Be, Mg, and Al Hydrides
Mo-62	Scheicher	Ralph Hendril	Sweden	F6	Quantitative Predictions of Superconductivity in Metal Hydrides
Mo-63	Tereshina	Irina	Russian Federa	F6	The effect of hydrogenation on hysteresis properties of the rapidly quenched Nd-Ho-Fe-Co-B alloys
Mo-64	Yaropolov	Yuri	Russian Federa	F6	Structure and magnetic properties of RNi (R=Gd, Tb, Dy, Sm) and R ₆ M _{1.67} Si ₃ (R=Gd, Tb, M=Ni, Co) hydrides

Mo-65	Roupcová	Pavla	Czech Republic	F6	Mössbauer Study of Changes of Phase Composition of NaAlH ₄ Based Complex Hydrides
Mo-66	Keiji	Shimoda	Japan	F7	Synthesis and characterization of metal aluminum amides
Mo-67	Crivello	Jean-Claude	France	F7	Li ₄ NH and Li _{1.5} NH _{1.5} as intermediary compounds during hydrogenation of Li ₃ N
Mo-68	Chua	Yong Shen	Singapore	F7	Synthesis, Structure and Dehydrogenation of Alkali-Earth Metal Amidoborane Derivative
Mo-69	Saldan	Ivan	Germany	F7	Possible fluorine substitution for H atoms in Li[BH ₄] and LiH during hydrogen absorption/desorption
Mo-70	Bo	Richter	Denmark	F7	Decomposition reaction and reversibility of LiBH ₄ -Mg(BH ₄) ₂ studied by in situ diffraction and thermal analysis techniques
Mo-71	Ozturk	Tayfur	Turkey	F7	Direct Synthesis of Hydrogen Storage Alloys from Their Oxides
Mo-72	Fruchart	Daniel	France	F7	Stabilization of metastable d-metal ternary magnesium hydrides at high temperature and under some GPa H ₂ pressure
Mo-73	Takeichi	Nobuhiko	Japan	F7	Structural Analysis of novel Mg-based Hydrides Prepared by Gigapascal Hydrogen Pressure Method
Mo-74	Kawakami	Masatsugu	Japan	F7	High-Pressure Synthesis of Novel Hydrides in Pd-X Systems (X = Ba, Y, La)
Mo-75	Aleksanyan	Anahit	Republic of Armenia	F7	Formation of alloys in Ti-V system in hydride cycle and synthesis of their hydrides in self-propagating high-temperature synthesis regime
Mo-76	Kamegawa	Atsunori	Japan	F7	Synthesis of New Hydrides in Li-Nb and Li-Ta Systems
Mo-77	Akyildiz	Hasan	Turkey	F7	Isochronal Hydrogenation of Textured Mg/Pd Thin Films
Mo-78	Bao-Xia Dong	Baoxia	Japan	A1	An investigation of liquid ammonia electrolysis for hydrogen production
Mo-79	Aymard	Luc	France	A1	Reactivity of TiH ₂ with lithium ion: new conversion mechanism
Mo-80	Uesugi	Hiroshi	Japan	A1	Industrial Production of MgH ₂ and its Application
Mo-81	Araujo	Moyses	Sweden	A1	Hydrogen as promoter and inhibitor of superionicity in Li-N-H systems
Mo-82	Slaman	Martin	The Netherlands	A2	Pd-alloy based thin films for hydrogen sensing and purification applications
Mo-83	Fruchart	Daniel	France	A2	Hydrogen absorption and desorption characteristics of high coercivity NdDyFeCoNbCuB sintered magnet: Low temperature Hydrogen Decrepitation treatments
Mo-84	Mongstad	Trygve	Norway	A2	Transparent yttrium hydride thin films prepared by reactive sputtering
Mo-85	Zhirov	Grigoriy	Ukraine	A4	Induced By Hydrogen Reversible and Unreversible Structural Changes In Subsurface layers of Palladium and Its Alloys Of Hydrogen

Mo-86	Fruchart	Daniel	France	A4	Equal Channel Angular Pressing (ECAP), a Severe Plastic Deformation (SPD) technique to promote fast hydrogen absorption in Mg alloys
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Tuesday Session 20.07

Tu-1	Kazuhiro	Ishikawa	Japan	A3	Effect of Annealing on Hydrogen Permeability and Microstructure of Melt Spun Amorphous and Crystalline Nb-TiNi Alloys
Tu-2	Glazunov	Gennadiy	Ukraine	A3	HYDROGEN PENETRATION THROUGH PALLADIUM MEMBRANES FROM THE FLAME OF COMBUSTION OF HYDROCARBON MATERIALS
Tu-3	Zakaznova-Herzog	Valentina	Switzerland	A3	Hydrogen production by alkaline electrolysis: surface investigations of materials for membranes
Tu-4	Stojadinovic	Jelena	Switzerland	A3	Electrochemical Study of Porous Diaphragms used in Alkaline Electrolysers for Hydrogen Production
Tu-5	Maksimenco	A.A.	Russian Federa	A3	STRUCTURE, MORPHOLOGY and HYDROGEN PENETRABILITY of VACUUM CAPACITORS Pd-Y FORMED on POROUS MEMBRANE SURFACE
Tu-6	Kolyago	Natalia	Belarus	A3	Influence of Temperature on the Processes of Hydrogen Mass Transfer in Pd-based Membrane Tubular Element
Tu-7	Gorina	Nelli	Russian Federa	A3	Application of Pd-Based Membranes for Separation of Gas Mixtures in Pure-Silicon Production Processes
Tu-8	Awakura	Yasutaka	Japan	A3	Hydrogen solubility and permeability of Nb-W-Mo alloy membrane
Tu-9	Ermilova	Margarita	Russian Federa	A3	Composite Hydrogen Permeable Membranes of Ti_xNi_y Alloys
Tu-10	Zajec	Bojan	Slovenia	A3	Evaluation of various thin films as a hydrogen permeation barrier
Tu-11	Varin	Robert	Canada	M1	Fast and Slow Dehydrogenation of Catalyzed Ball Milled Lithium Alanate ($LiAlH_4$)
Tu-12	Milanese	Chiara	Italy	M1	Synergetic effect of C (graphite) and Nb_2O_5 on the H_2 sorption properties of the Mg - MgH_2 system
Tu-13	Teng	He	China	M1	Solid-state Catalytic Dehydrogenation of Ammonia Borane for Hydrogen Storage
Tu-14	Chernov	Ilya	Russian Federa	M1	Mathematical model of metal-hydride hydrogen tank with quick sorption
Tu-15	Ren	Hui-ping	China	M1	Structures and electrochemical characteristics of as-cast and annealed $La_{0.75}Mg_{0.25}Ni_{3.3}Co_{0.2}Si_x$ ($x= 0-0.2$) electrode alloys
Tu-16	Hailiang Chu	Hailiang	China	M1	Hydrogen Storage Properties of $Ca(BH_4)_2-LiNH_2$ System
Tu-17	Huizhong	Yan	China	M1	The structure and electrochemical properties of new $La_{15}Fe_{77}B_8$ -type hydrogen storage alloy
Tu-18	Pohl	Alexander	United Kingdom	M1	HyStorM - Tuning Promising Hydrogen Storage Materials for Automotive Applications
Tu-19	Guéguen	Aurélié	France	M1	Influence of the presence of $Ti_{33}V_{33}Fe_{33}$ precipitates on the hydrogenation properties of Ti-V-Fe bcc compounds

Tu-20	Yu	Xuebin	China	M1	Significant improvement of hydrogen desorption in destabilized Lithium borohydride
Tu-21	Teng	Yunlei	Japan	M1	Catalytic Effect of Li ₅ TiN ₃ on Hydrogen Desorption Properties in the Mechanically Ball Milled Li-N-H System
Tu-22	Chubin	Wan	China	M1	Crystalline and electronic structure of La-Ni-Mn-Al-Fe-B alloy investigated by XRD and XPS
Tu-23	Babanova	Olga	Russian Federa	M1	Reorientational motion in Mg(BH ₄) ₂ : a nuclear magnetic resonance study
Tu-24	Stojić	Dragica	Serbia	M1	HfNi and Hf ₂ Ni intermetallics - comparison of hydrogen absorption ability
Tu-25	Ćirić	Katarina	Serbia	M1	Hydrogen absorption in HfNi intermetallic phase - experimental and theoretical investigation
Tu-26	Giannasi	Alessandra	Italia	M1	High resolution Raman and neutron study of Mg(BH ₄) ₂ in a wide temperature range
Tu-27	Xin	Ju	China	M1	Synchrotron EXAFS and XRD studies La-Ni-Mn alloy during hydrogen absorption-desorption cycling
Tu-28	Luo	Weifang	USA	M1	Improvement of the Kinetics of H ₂ Absorption of the MgH ₂ +2LiNH ₂ System
Tu-29	Li	Hai-Wen	Japan	M1	TiCl ₃ Additions to Mg(BH ₄) ₂ : from Kinetic to Thermodynamic Effects
Tu-30	Yigang	Yan	Japan	M1	Hydrogen Storage Properties of Y(BH ₄) ₃
Tu-31	Frommen	Christoph	Norway	M1	Crystal structure, polymorphism, and thermal properties of Yttrium borohydride Y(BH ₄) ₃
Tu-32	Paik	Biswajit	Japan	M1	Specific heat capacity of LiNH ₂
Tu-33	Cho	Young-Hee	Australia	M1	Hydrogen migration and its influence on micropore formation in cast Mg alloys
Tu-34	Fateev	Gennadii	Belarus	M1	Investigation of low temperature fast reacting metalhydrides and modeling of metalhydride reactor
Tu-35	Fernandez	Jose F.	Spain	M1	A thermodynamic and kinetic study of the reaction of H ₂ with pseudo-binary Mg ₆ (PdxNi _{1-x}) at the Ni solubility limit
Tu-36	Urretavizcaya	Guillermina	Argentina	M1	High-pressure DSC study of the hydrogen sorption behaviour of MgH ₂ and MgH ₂ /graphite processed by reactive mechanical alloying
Tu-37	Castro	Facundo	Argentina	M1	Hydrogen sorption properties of MgH ₂ /10 wt.% graphite
Tu-38	SEGARD	Mathieu	France	M1	Mechanical properties of palladium hydride using in situ tensile tests and isotopic effect
Tu-39	Lozano	Gustavo A.	Germany	M1	Hydrogen absorption and desorption of storage tanks based on sodium alanate material: simulations and experimental work
Tu-40	Couillaud	Samuel	France	M1	New ternary Mg alloys with a large cubic cell for solid hydrogen storage
Tu-41					
Tu-42	Chou	Mei-Yin	USA	M1	Theoretical Study of the AlH ₃ Vacancy in the α and γ Phases of NaAlH ₄
Tu-43	Grant	David	United Kingdon	M1	Dehydrogenation behaviour of LiBH ₄ with the addition of pre-milled Mg-Ni-H mixtures

Tu-44	Manicheva	Svetlana	Russian Federa	M1	Mathematical model of metal-hydride phase change
Tu-45	Claudio	Pistidda	Germany	M1	Synthesis of amorphous Mg(BH ₄) ₂ from MgB ₂ and H ₂ at room temperature
Tu-46	Shanin	Yuriy	Russian Federa	M1	Study of Hydride Properties for Hydride Heat Pumps Development
Tu-47	Lindemann	Inge	Germany	M1	Li-Al-borohydride, a new double-cation borohydride
Tu-48	Saito	Shigeki	Japan	M1	First-Principles Study of the Phonon Properties of GdFe ₂ measured utilizing Synchrotron Radiation via Nuclear Resonance
Tu-49	Gosalawit	Rapee	Germany	M1	LiF-MgB ₂ system for Reversible Hydrogen Storage
Tu-50	Ismer	Lars	USA	M1	On the kinetic inhibition of the dehydrogenation of AlH ₃
Tu-51	Chen	Li-Xin	China	M1	Investigation on the Nature of Active Species in the CeCl ₃ -doped Sodium Alanate System
Tu-52	Lemort	Lucille	France	M1	Elaboration and Characterization of magnesium substituted A ₅ Ni ₁₉ and A ₂ Ni ₇ (A=Pr, Nd, La) hydrides forming alloys as active materials for negative electrode in NiMH battery
Tu-53	Yoonyoung	Kim	South Korea	M1	Reversibility and identification of intermediate phase in thermal decomposition of Ca(BH ₄) ₂
Tu-54	Xiong	Zhitao	China	M1	Interaction of Ammonia Borane with Li ₂ NH and Li ₃ N
Tu-55	Xuezhang	Xiao	China	M1	Synthesis and dehydrogenation of calcium alanate hydride
Tu-56	Yasuda	Naoto	Japan	M1	Self-Ignition Combustion Synthesis of LaNi ₅ Utilizing Hydrogenation Heat of Calcium
Tu-57	Terashita	Naoyoshi	Japan	M1	Hydrogenation properties of the ternary compounds Mg _{2-x} Pr _x Ni ₄ and MgRENi ₄ (0.6 ≤ x ≤ 1.4, RE: La, Ce, Pr, Nd, Sm, Gd)
Tu-58	Deaconu	Mariea	Romania	M1	Preliminary Experimental Study on Titanium Powder and its Application to Tritium Storage Bed Designed
Tu-59	Chen	Jian-Cheng	The Netherland	M1	Quasi-classical and quantum dynamics of H ₂ dissociation on c(2×2)-Ti/Al(100) surface with a physisorption well
Tu-60	Suzuki	Hiroshi	Japan	M1	Effect of deformation on hydrogen absorption and desorption properties of Titanium
Tu-61	Jaron	Tomasz	Poland	M1	Green, greener, greenest: on interaction of hydrides and borohydrides with CO ₂ for reuse of a greenhouse gas
Tu-62	Roger	Domènech-Fé	Germany	M1	New Tool for Hydrogen Storage Characterization: In-Situ Raman Cell to Measure in Hydrogen Pressure and Temperature
Tu-63	Fijalkowski	Karol	Poland	M1	Novel mixed-cation amidoborane of lithium and sodium – not a simple solid solution of LiNH ₂ BH ₃ and NaNH ₂ BH ₃
Tu-64	Bereznitsky	Matvey	Israel	M1	Hydrogen Absorption in C _x Gd _{1-x} Alloys
Tu-65	Wen	Li	Singapore	M1	First-principles Study on LiNH ₂ BH ₃ (LiAB) and LiNH ₂ BH ₃ ·NH ₃ BH ₃ (LiAB·AB)
Tu-66	Wilkinson	David	United Kingdom	M1	Temperature and concentration dependence of the diffusion constants of H and D in the β-phase of palladium hydride(deuteride)

Tu-67	Kozlak	Kamil	Poland	M1	Structural and magnetic properties of PrPdInH and NdPdInH hydrides
Tu-68	Sofiene	Mellouli	Tunisia	M1	Volumetric expansion of LaNi ₅ hydride during absorption - desorption cycles
Tu-69	Mao	Jianfeng	Australia	M1	Effect of transition-metal halides on the hydrogen storage properties of CaBH ₄ -MgH ₂ system
Tu-70	Dantzer	Pierre	France	M1	Ageing characterisation of intermetallic compounds for the development of hydrogen storage reactors
Tu-71	Cakir	Deniz	The Netherlands	M1	Reaction Pathways in the Reactive Composite Mg(NH ₂) ₂ + LiH
Tu-72	Shen	Chia-chieh	Taiwan	M1	Hydrogenation of Ti ₂₅ V ₃₅ Cr ₄₀ Alloy Doped with Interstitial Boron and Carbon
Tu-73	Shelyapina	Marina	Russian Federation	M1	NMR study of metal-hydrogen systems for hydrogen storage
Tu-74	Miceli	Giacomo	Switzerland	M1	First principles study of the LiNH ₂ / Li ₂ NH transformation
Tu-75	Meyer	Gabriel	Argentina	M1	Prototype hydrogen source based on hydride forming materials
Tu-76	Takamura	Hitoshi	Japan	M1	In-situ NMR Observation of Hydrogen Absorption and Desorption Behavior for Metal Hydrides
Tu-77	Demkin	Alexey	Russian Federation	M1	Hydrides Formation in Mg-Fe-H ₂ system
Tu-78	Matsuda	Junko	Japan	M1	Phase Structure and Hydrogen Absorbing Property in Ti-Fe-Al System
Tu-79	Reed	Daniel	United Kingdom	M1	In situ Raman studies of the thermal decomposition of lithium borohydrides
Tu-80	Purewal	Justin	USA	M1	Alanes-LiBH ₄ systems for hydrogen storage: role of Al in LiBH ₄ charge/discharge performance
Tu-81	Baruj	Alberto	Argentina	M1	Prototype hydrogen source based on hydride forming materials
Tu-82	Karkamkar	Abhi	USA	M1	Chemical Hydrogen Storage in NH ₂ BHX Materials
Tu-83	Crossley	Matthew	Australia	M1	Investigation of the 2LiH + MgB ₂ system by in- and ex-situ neutron diffraction
Tu-84	Klebanoff	Lennie	United States	M1	5-Year Review of the DOE Metal Hydride Center of Excellence
Tu-85	Mitrokhin	Sergey	Russian Federation	M1	Interaction of NdNi ₄ M with hydrogen
Tu-86	Esquivel	Marcelo R.	Argentina	M3	Integral treatment for materials synthesized, improved and applied to hydrogen thermal compression
Tu-87	Izawa	Chika	Germany	M3	Austenitic steels: Tensile tests in 400 bar H ₂ -environment, determination of surface oxide thickness and near-surface Carbon
Tu-88	Sivov	Roman	Russia	M3	Synthesis, properties and Mossbauer study of ZrFe _{2-x} Ni _x hydrides (x = 0.2 – 0.8)

Wednesday Session 21.07

We-1	Zhang	Feng	USA	M1	Prediction of a New Compound in the Li-Mg-N-H Hydrogen Storage System
We-2	Gautam	Yogendra	India	M2	Hydrogen storage, optical and magnetic properties of nano structured Pd and Pd/Mg thin films

We-3	Wu	Ying	China	M2	Improved Hydrogenation-Dehydrogenation of the Nanostructured Melt-Spun Mg-Ni-Mm Alloys
We-4	Zaranski	Zbigniew	Poland	M2	The influence of ball milling process on hydrogenation properties of MgH ₂ - FeTi composites
We-5	Czujko	Tomasz	Poland	M2	Composite behaviour of nanostructured hydride mixtures synthesized by ball milling
We-6	Revesz	Adam	Hungary	M2	Microstructural development and hydriding kinetics of ball-milled nanocrystalline MgH ₂ powders
We-7	Isobe	Shigehito	Japan	M2	Study on Hydrogen Storage Materials by TEM
We-8	Pohlmann	Carsten	Germany	M2	Magnesium-Graphite Composites for Hydrogen Storage with Tailored Heat Conduction Properties
We-9	Li	Yongtao	China	M2	Space-confined NaAlH ₄ in Mesoporous Carbon for Hydrogen Storage: Enhancing Cycling Performance
We-10	Beznosyuk	Serge	Russian Federa	M2	Spin-Charge Conjunction Quantum Fluctuations Of Hydrogen in Nonequilibrium Nanosystem
We-11	Zhang	Yang-huan	China	M2	Hydrogen storage behaviours of nanocrystalline and amorphous Mg ₂ Ni _{1-x} Mn _x (x = 0-0.4) alloys prepared by melt spinning
We-12	Yuan	Huatang	China	M2	Facile preparation and good electrochemical performance of chain-like and rod-like Co-B nanomaterials
We-13	Checchetto	Riccardo	Italy	M2	Deuterium desorption from nano-crystalline magnesium thin films
We-14	Zlotea	Claudia	France	M2	Nano-confinement effect on hydrogen sorption properties of metal particles embedded in a porous material
We-15	Kalinichenka	Siarhei	Germany	M2	Hydrogen desorption kinetics of melt-spun and hydrogenated Mg-based alloys using in situ synchrotron X-ray diffraction and thermogravimetry
We-16	Schmidt	Thomas	Germany	M2	Tayloring NaAlH ₄ towards realistic operation conditions
We-17	Grigorova	Eli	Bulgaria	M2	Effect of activated carbons derived from agricultural by-products on the hydrogen storage properties of magnesium
We-18	Jensen	Ingvild Julie T	Norway	M2	Using X-ray Photoelectron Spectroscopy in investigation of Mg-based thin film hydrides
We-19	Krishnan	Gopi	The Netherland	M2	Thermal Stability of Gas Phase Magnesium Nanoparticles for Hydrogen Storage: a TEM Study
We-20	Suwarno	Suwarno	Norway	M2	Hydrogenation and Microstructural Study of Melt-Spun Ti _{0.8} V _{0.2}
We-21	Xiaoping	Jiang	China	M2	Preparation and characterization of porous carbon Spheres with controlled micropores and mesopores
We-22	Morozov	Oleksandr	Ukraine	M2	The Effects of Mg-Ti Compound on the Hydrogen Temperature Ranges of Desorption
We-23	Hongge	Pan	China	M2	Hydrogen absorption/desorption properties and catalytic mechanisms of the NaOH-added Mg(NH ₂) ₂ -2LiH system
We-24	Popov	Alexander	Russian Federa	M2	Hydrogen addition to local defects in CNT
We-25	Taisuke	Ono	Japan	M2	Structural investigation of LiAl(NH ₂) ₄ on Thermal Decomposition

We-26	Gradisek	Anton	Slovenia	M2	Hydrogen diffusion in bulk metallic glasses Zr-Cu-Al-Pd
We-27	Goudy	Andrew	USA	M2	Kinetics and Modeling Study of Magnesium Hydride with Various Additives at Constant Pressure Thermodynamic Driving Forces
We-28	Zhang	Yu	Japan	M2	Catalytically Enhanced Dehydrogenation of Hydride-Amidoborane Composite Materials for Hydrogen Storage
We-29	Liu	Bin Hong	China	M2	Hydrogen Desorption from Destabilized LiBH ₄
We-30	Soldatov	Anatoly	Russian Federa	M2	Adsorption and storage hydrogen in graphene-based carbon nanotubes synthesized in pores of inorganic membranes
We-31	Anastasopol	Anca	The Netherland	M2	Hydrogen Storage Properties of Spark Generated Magnesium Nanoparticles
We-32	Bibienne	Thomas	France	M2	Hydrogen Storage through Alloys Nanoparticles heterogeneous Nucleation within Carbonaceous Foams
We-33	Giovanni	Capurso	Italy	M2	Performance tests of a small hydrogen reservoir based on Mg-Al pellets
We-34	Agresti	Filippo	Italy	M2	Dehydrogenation kinetics of LiBH ₄ dispersed on carbonaceous nanosupports
We-35	Poletaev	Andrey	Norway	M2	Microstructural optimisation of LaMg ₁₂ alloy for hydrogen storage
We-36	Kurko	Sandra	Serbia	M2	MgH ₂ :B nanocomposite for hydrogen storage: ab initio calculations and experiment
We-37	Puszkiew	Julián	Argentina	M2	Study of the 2LiBH ₄ + MgH ₂ reactive hydride composite doped with Fe and F3Fe for hydrogen storage
We-38	Spasov	Tony	Bulgaria	M2	Enhanced hydrogen sorption in Mg/C nanocomposites
We-39	Schiavo	Benedetto	Italy	M2	Hydrogen sorption in the CaH ₂ +MgB ₂ system
We-40	Kim	Kyeong-II	South Korea	M2	Pressure-Composition-Isotherm Behavior of Mg-Pb/Zr/TiO ₃ (PZT) composites by Hydrogen Induced Mechanical Alloying
We-41	Huabin	YANG	China	M2	Catalytic Effect of V ₂ O ₅ on the Hydriding Properties of Mg
We-42	Verón	María Gisela	Argentina	M2	Effect of multiwall carbon nanotubes on absorption /desorption kinetics in MgH ₂
We-43	Williams	Mario	South Africa	M2	Nanostructured Composites of Magnesium, Hydride-Forming Additives and Carbon for Hydrogen Storage
We-44	Giasafaki	Dimitra	Greece	M2	Organized nanoporous carbon - metal composites for hydrogen storage
We-45	Ampoumogli	Asem	Greece	M2	Nanostructured composites of mesoporous carbons and boranates, as hydrogen storage materials
We-46	Gennari	Fabiana	Argentina	M2	Dehydriding and hydriding properties of 6LiBH ₄ -CeCl ₃ composite
We-47	Fursikov	Pavel	Russian Federa	M2	Interaction with Hydrogen of Highly Dispersed Magnesium Eutectic Alloys
We-48	Gomzi	Vjeran	Croatia	M2	Hydrogen binding in Fe(H) ₂ (H ₂)(PEtPh ₂) ₃ - Theoretical predictions

We-49	Hanada	Nobuko	Japan	M2	Electrochemical synthesis of magnesium and aluminum hydrides in the system of Li-ion extraction and insertion
We-50	Berezovets	Vasyl	Ukraine	M2	Hydrogenation properties of Mg-IMC-C composites prepared by ball milling
We-51	Żywczak	Antoni	Poland	M2	Hydriding Ti ₄ Zr ₃ Ni ₁₇ -xM _x (M – 3d metals) intermetallic compounds
We-52	Agafonov	Sergey	Russian Federa	M2	Neutron study of nanoscale metal-hydrogen systems
We-53	Tarasov	Boris	Russian Federa	M2	Magnesium Based Composite Materials for Hydrogen Storage
We-54	Yuan	Huatang	China	M2	Preparation and Characterization of Novel Transition Metal Boride Hydrogen Storage Electrode Material
We-55	Wang	Yijing	China	M2	Direct Synthesis of Sodium Alanate with Novel Catalytics TiB ₂
We-56	Pino	Ilaria	The Netherlanc	M2	Hydrogen dissociation on small aluminum clusters
We-57	Shelyapina	Marina	Russian Federa	M2	Metal-hydrogen nanoscale systems : a review of ab initio calculations
We-58	Floriano	Ricardo	Brazil	M2	Studies of the addition of the Nb-based nanocomposites in the matrix of Mg processed by reactive milling (MR)
We-59	Khantimerov	Sergey	Russian Federa	M2	Electrochemical Study of Conic Carbon Nanotubes as Hydrogen Storage Systems
We-60	Asselli	Alexandre Au	Brazil	M2	Mg ₂ FeH ₆ -based nanocomposites with high capacity of hydrogen storage processed by reactive milling
We-61	Klyamkin	Semen	Russian Federa	M2	Interaction of MIL-101-based Hybride Materials with Hydrogen at High Pressures
We-62	Berdonosova	Elena	Russian Federa	M2	Effect of LaNi ₅ on Hydrogen Sorption Properties of MIL-101
We-63	Baldi	Andrea	The Netherlanc	F1	Mg-based multilayers: thermodynamic effects at the nanoscale
We-64	Tal-Gutelmacher	Ervin	Germany	F1	Hydrogen Effect on Dislocation Nucleation in Vanadium (100) Single Crystal Examined by Nanoindentation
We-65	Wirth	Emmanuel	France	F1	Coupling of manometric and calorimetric measurements to probe unique charaterisation of solid hydrogen storage systems
We-66	Mirsaidov	Ulmas	Tajikistan	F1	System analysis of thermodynamic characteristics of complex alumo
We-67	Kuzovnikov	Michail	Russian Federa	F1	Separation factor (H/D)Pd/(H/D)gas for the Pd-D-H system at high pressure
We-68	Corno	Marta	Italy	F1	A computational study of thermodynamic properties of M-H-F systems for hydrogen storage applications
We-69	Dolci	Francesco	The Netherlanc	F1	In-situ diffraction evidence for eutectic formation in the Mg(NH ₂) ₂ /LiNH ₂ system
We-70	Leardini	Fabrice	Spain	F1	Thermodynamic investigations on the Mg-D system by pressure composition isotherm measurements
We-71	Belov	Maksim	Russian Federa	F1	Lattice dynamics and stability of Co and Ni monohydrides

We-72	Belosludov	Rodion	Japan	F1	Phase diagrams of Hydrogen Clathrate Hydrates: Theoretical aspects of Hydrogen Storage Application
We-73	Palsson	Gunnar	Sweden	F1	Combined optical and electrical analysis of phase boundaries of transition metal hydride films
We-74	KorzHAVyi	Pavel	Sweden	F1	Thermodynamics of stable and metastable Cu-O-H compounds
We-75	Anikina	Elena	Russian Federa	F1	Structure Ti _{0.9} Zr _{0.1} Mn _{1.2} V _{0.1} and Ti _{0.9} Zr _{0.1} Mn _{1.3} V _{0.5} and their hydrides and peculiarities of hydrogen interaction with intermetallic compounds
We-76	Anikina	Elena	Russian Federa	F1	Calorimetric study of hydrogen interaction with CaSi
We-77	Anikina	Elena	Russian Federa	F1	Thermodynamic aspects of hydrogen interaction with Laves phase structured intermetallic compounds
We-78	Mirsaidov	Ulmas	Tajikistan	F1	DESOLVATION, THERMAL DECOMPOSITION AND THERMODYNAMIC PROPERTIES OF LANTHANIDE BOROHYDRIDES OF YTTRIUM SUBGROUP
We-79	Chaudhary	Anna-Lisa	Australia	F4	Synthesis of Si Nanoparticles to improve reaction kinetics and thermodynamic properties of Magnesium Hydride
We-80	Xueli	Zheng	China	F4	Low temperatures hydrogen evolution from LiAlH ₄ -based systems
We-81	Siekhaus	Wigbert	USA	F4	The Effect of Surface Preparation on the Depth of Hydride Initiation at Lightly Oxidized Uranium Surfaces
We-82	Fabre	Arnaud	France	F4	In situ study of hydrogen exposure of microcantilevers coated with nanometric palladium films
We-83	Mooij	Lennard	The Netherlanc	F4	Surface energy effects on the thermodynamics of Mg/Ti multilayers
We-84	Suzuki	Kimichi	Japan	F4	Theoretical Study of Hydrogen Adsorption and Diffusion in Spillover Process on Microporous Carbon
We-85	Nowakowski	Robert	Poland	F4	Adsorption states of hydrogen on surfaces of thin Tb and Eu films in the process of TbH _x (0<x<3) and EuH _y (0<y<2.2) formation
We-86	Tode	Mayumi	Japan	F4	Thermal degradation analysis of deuterium ion implanted hydrogen storage materials (TiFe and V ₂₅ Cr ₄₀ Ti ₃₅) using synchrotron radiation photoelectron spectroscopy
We-87	Michiaki	Utsumi	Japan	F4	The Influence of The Cathode Surface on The Deuterium IECF
We-88	Phung	Thi Viet Bac	JAPAN	F4	Formation of AlH ₃ in Hydrogen-Aluminum System: A Density Functional Study