

Poster titles

Simulating and experimental syntheses of nano-porous materials for hydrogen storage, **D. Cao, J. Lan, Z. Xiang, X. Shao, D. Cheng and W. Wang**, *Beijing University of Chemical Technology, China*

Kinetic, thermodynamic and spectroscopic exploration on the NaBH₄-MgH₂ RHC system, **S. Garroni, C. Milanese, A. Girella, A. Marini, R. Campesi, S. Suriñach, M. D. Baró and G. Mulas**, *University of Pavia Viale Taramelli, Italy*

Computational study of silica supported transition metal fragments for kubas-type hydrogen storage, **C. Skipper, A. Hamaed, D. M. Antonelli and N. Kaltsoyannis**, *University College London, UK*

Dehydrogenation behaviour of mixed borohydrides dispersed on high specific surface area carbons, **G. Capurso, F. Agresti, L. Crociani, G. Rossetto, B. Schiavo, A. Maddalena, S. Lo Russo and G. Principi**, *Universita di Padova, Italy*

Reaction path determination during the synthesis of Mg₂TM ternary complex hydrides by reactive ball milling (TM = Fe, Co, Ni), **F. Cuevas, J. Zhang, W. Zaidi, J.-P. Bonnet, L. Aymard, J.-L. Bobet and M. Latroche**, *CMTR/ICMPE/CNRS UMR 7182, France*

Vacancies and the mobility of hydrogen in metal hydrides for hydrogen storage, **S. W. H. Eijt, H. Leegwater, A. Anastasopol, S. Singh, H. Schut, W. Egger, F. Plazaola, A. Baldi, B. Dam and F. M. Mulder**, *Delft University of Technology, The Netherlands*

Hydrogen absorbing alloys La_{0.85}Mg_{0.15}Ni_{3.8} synthesized by spark plasma sintering, **J. Zhang, B. Knosp, P. Bernard and M. Latroche**, *CMTR/ICMPE/CNRS UMR 7182, France*

Coupling of manometric and calorimetric measurements to probe unique characterisation of solid hydrogen storage systems, **E. Wirth, R. André, A. Levchenko, G. Etherington, C. Milanese and P. Le Parlouër**, *SETARAM Instrumentation, France*

Synergistic effect in Ru-Co-B catalysts for hydrogen production through sodium borohydride self-hydrolysis: a microstructural and chemical view, **G. M. Arzac, T. C. Rojas, C. López-Cartes and A. Fernández**, *Instituto de Ciencia de Materiales de Sevilla, Spain*

Hydrogen storage and fuel processing strategies, **C. R. Campbell, G. S. Hillier and I. S. Metcalfe**, *Centre for Process Innovation, UK*

Hydrogen release systems: MX_{2.n}(NH₃) (M = Mg, X = Cl) with LiH and MgH₂, **J. M. Hanlon and D. H. Gregory**, *University of Glasgow, UK*

Hydrogen trapping properties of Zr₂Fe alloy in the presence of contaminant gases, **D. Thibault, J. Prigent, M. Latroche, E. Leoni and V. Rohr**, *TN International, France*

Mn-based borohydride compounds for hydrogen storage, **R. Liu, D. Reed and D. Book**, *University of Birmingham, UK*

Synthesis and structure determination of magnesium imide (MgNH), **F. Dolci, E. Napolitano, T. Hansen and W. Lohstroh**, *European Commission – JRC Institute for Energy, The Netherlands*

Ammonia borane derivatives: high weight percent hydrogen storage materials, **K. Hore, K. Ryan, S. K. Callear, M. O. Jones, P. Edwards and B. David**, *University of Oxford, UK*

BH₄⁻ self-diffusion in liquid LiBH₄ using quasielastic neutron scattering, **P. Martelli, A. Remhof, A. Borgschulte, M. Russina, E. Kemner, D. Wallacher and A. Züttel**, *Empa Swiss Federal Laboratories for Materials Science and Technology, Switzerland*

Optimized hydrogen generation in a semicontinuous sodium borohydride hydrolysis reactor for a 60W-scale fuel cell stack, **G. M. Arzac, D. Hufschmidt, A. Fernández, A. Justo, B. Sarmiento, M. A. Jiménez and M. M. Jiménez**, *CSIC-Univ. Sevilla, Spain*

Effect of milling conditions on the purity of hydrogen desorbed from ball-milled graphite, **Y. Zhang and D. Book**, *University of Birmingham, UK*

Pressure-induced structural changes in ammonia borane analogues as potential hydrogen-storage materials, **P. Á. Szilágyi, S. Hunter, C. Morrison, D. I. A. Millar, A. R. Lennie, C. Tang and C. R. Pulham**, *University of Edinburgh, UK*

Hydrogen interaction with graphene probed by muons, **D. Pontiroli, M. Mazzani, M. Riccò, M. Choucair, J. A. Stride and O. V. Yazyev**, *Università degli Studi di Parma, Italy*

Cyclodextrin-based systems for photoinduced hydrogen evolution, **N. Mourtzis, P. Contreras Carballada, M. Felici, R. J. M. Nolte, R. M. Williams, L. de Cola and M. C. Feiters**, *Radboud University Nijmegen, The Netherlands*

Density functional studies of hydrogen absorption in MOFs, **D. J. Riley, D. J. Bull, D. Moser, D. K. Ross and I. Morrison**, *University of Salford, UK*

Ti-V based metal hydrides for hydrogen storage, **L. Pickering, A. Bevan and D. Book**, *University of Birmingham, UK*

Induced changes in the crystal structure and hydrogen storage properties of group II metal borohydrides, **S. D. Culligan, M. O. Jones, P. P. Edwards and W. I. F. David**, *University of Oxford, UK*

Melt-spun magnesium-nickel alloys for hydrogen storage, **X. Yi, A. Walton and D. Book**, *University of Birmingham, UK*

In situ Raman studies of metal borohydride compounds, **D. T. Reed and D. Book**, *University of Birmingham, UK*

Reversible sorption of hydrogen by Pt/WO₃ and Pt/Na_yWO₃ to form bronzes, **P. A. Sermon and A. R. Berzins**, *Brunel University, UK*

In situ powder neutron diffraction: phase intermediate between Li₄ND and Li₂ND, **G. Baldissin, N. Sorbie, D. Moser, R. I. Smith, D. H. Gregory and D. J. Bull**, *University of Salford, UK*

Zero-Kelvin ground states of the Pd–PdH system using a cluster expansion approach as a test method for other metal hydride systems, **G. Baldissin, D. Moser and D. K. Ross**, *University of Salford, UK*

Structural studies in the Li_3N – Mg_3N_2 system by powder neutron diffraction, **R. W. Hughes, L. Gurun, A. Bailey, P. Hubberstey, C. Ritter and D. H. Gregory**, *University of Glasgow, UK*

Hydrogen storage properties of the CaH_2 – MgB_2 – AlB_2 system, **B. Schiavo, A. Girella, B. Joseph and C. Milanese**, *University of Palermo, Italy*

Interfacial storage of hydrogen in Ru– Li_2O nanocomposites, **L. J. Fu, D. Samuelis, M. Hirscher, J. Maier and T. Braeuniger**, *Max Planck Institute for Solid State Research, Germany*

Nanostructured electrospun ammonia borane fibres for hydrogen vehicles, **A. Lovell, Z. Kurban, S. M. Bennington, D. W. Jenkins, A. Nathanson, N. T. Skipper and T. Headen**, *Cella Energy, UK*

The Skinner Prize for the best poster was awarded to Miss Delphine Thibault of TN International, France, for her poster on Hydrogen trapping properties of Zr_2Fe alloy in the presence of contaminant gases.