

## Списък на забелязаните цитати на чл. кор. проф. дхн Тони Спасов

### CRYSTALLIZATION KINETICS OF THE AMORPHOUS ALLOY FE80B20 STUDIED USING A THERMOMAGNETIC BALANCE

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### **Oxidation kinetics of amorphous, polycrystalline, and nanocrystalline Co<sub>33</sub>Zr<sub>67</sub> alloys**

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#### **Kinetic analysis of the $\alpha$ - $\beta$ HgI<sub>2</sub> phase transition using isothermal and non-isothermal DSC**

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#### **Primary crystallization kinetics in rapidly quenched Mg-based Mg-Ni-Y alloys**

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**Nanocrystallization and hydrogen storage in rapidly solidified Mg-Ni-RE alloys**

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#### **High-temperature oxidation of Cu-Ti-based rapidly solidified alloys**

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#### **Optimisation of the ball-milling and heat treatment parameters for synthesis of amorphous and nanocrystalline Mg<sub>2</sub>Ni-based alloys**

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**Synthesis and hydrogen sorption properties of nanocrystalline Mg<sub>1.9</sub>M<sub>0.1</sub>Ni (M=Ti, Zr, V) obtained by mechanical alloying**

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#### **Synthesis of Nanocrystalline MgH<sub>2</sub> by Reactive Milling**

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#### **Nanocrystallization of hydrogen-charged Mg<sub>76</sub>Ni<sub>19</sub>Y<sub>5</sub> amorphous alloy**

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#### **Evolution of amorphous and nanocrystalline phases in mechanically alloyed Mg<sub>1.9</sub>M<sub>0.1</sub>Ni ( M = Ti,Zr,V )**

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**Hydriding/dehydriding properties of nanocrystalline Mg<sub>87</sub>Ni<sub>3</sub>Al<sub>10</sub>M<sub>3</sub> (M = Ti, Mn, Ce, La) alloys prepared by ball milling**

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**Direct hydriding of Mg<sub>87</sub>Al<sub>7</sub>Ni<sub>3</sub>Mn<sub>3</sub> by reactive mechanical milling in hydrogen atmosphere and influence of particle size on the dehydriding reaction**

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**Fatay D., Revesz A., Spassov T.**

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**Hydriding/dehydriding of Mg<sub>87</sub>Ni<sub>3</sub>Al<sub>3</sub>Mm<sub>7</sub> (Mm = La, Ce-rich mischmetal) alloy produced by mechanical milling**

**T. Spassov, V. Petkov, P. Solsona**

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**Electrochemical properties of nanocrystalline Mg<sub>2</sub>Ni-type alloys prepared by mechanical alloying**

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**Thermodynamic properties and absorption-desorption kinetics of Mg<sub>87</sub>Ni<sub>10</sub>Al<sub>3</sub> alloy synthesised by reactive ball milling under H<sub>2</sub> atmosphere**

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### **Synthesis and Characterization of Amorphous TiFe Alloy**

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### **Microstructure and hydriding properties of ball-milled Mg-10 at.%MmNi<sub>5</sub> (Mm = La, Ce-rich mischmetal) composites**

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### Microstructure and hydrogen sorption kinetics of Mg nanopowders with catalyst

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### NO reduction with CO on copper and ceria oxides supported on alumina

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### Influence of tin on the electrochemical and gas phase hydrogen sorption in Mg<sub>2-x</sub>Sn<sub>x</sub>Ni (x = 0, 0.1, 0.3)

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#### **Electrochemical hydriding/dehydriding of nanocrystalline Mg<sub>2-x</sub>Sn<sub>x</sub>Ni (x = 0, 0.1, 0.3)**

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#### **Synthesis and hydrogen adsorption in Cu-based coordination framework materials**

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#### **Synthesis, spectroscopic, thermal and structural elucidation of 5-amino-2-methoxypyridine ester amide of squaric acid ethyl ester: A new material with an infinite pseudo-layered structure and manifested NLO application**

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**Linearly polarized IR-spectroscopy of partially oriented solids as a colloid suspension in nematic host: A tool for spectroscopic and structural elucidation of the embedded chemicals**

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**Influence of B substitution for Ti and Ni on the electrochemical hydriding of TiNi**

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**T.Spassov, S.Todorova, V.Petkov**

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#### **Hydrogen storage in Mg-10 at.% LaNi<sub>5</sub> nanocomposites, synthesized by ball milling at different conditions**

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### **The effect of high-pressure torsion on the microstructure and hydrogen absorption kinetics of ball-milled Mg<sub>70</sub>Ni<sub>30</sub>**

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### **Hydrogen sorption properties of ball-milled Mg-C nanocomposites**

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#### **Synthesis and hydriding/dehydriding properties of Mg<sub>2</sub>Ni-AB (AB = TiNi or TiFe) nanocomposites**

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### **Electrocatalytic behavior of Ni-based amorphous alloys for hydrogen evolution**

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**Hydrogen storage of melt-spun amorphous Mg<sub>65</sub>Ni<sub>20</sub>Cu<sub>5</sub>Y<sub>10</sub> alloy deformed by high-pressure torsion**

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**Effect of microstructure on the electrocatalytic activity for hydrogen evolution of amorphous and nanocrystalline Zr-Ni alloys**

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### Hydrogen storage in metal-organic microporous structures

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#### **Hydrogen sorption properties of 90 wt% MgH<sub>2</sub>-10 wt% MeSi<sub>2</sub> (Me = Ti, Cr)**

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**High glass forming ability correlated with microstructure and hydrogen storage properties of a Mg-Cu-Ag-Y glass**

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**Liquid crystal nanocomposites produced by mixtures of hydrogen bonded achiral liquid crystals and functionalized carbon nanotubes**

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**High-pressure DSC study on the hydriding and dehydriding of Mg/C nanocomposites**

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**Spectral evidence for hydrogen-induced reversible segregation of CO adsorbed on titania-supported rhodium**

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#### [Influence of milling conditions on the hydriding properties of Mg-C nanocomposites](#)

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#### **Hydrogen spillover on Rh/TiO<sub>2</sub>: The FTIR study of donated electrons, co-adsorbed CO and H/D exchange**

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#### **The mechanism of generating nanoporous Au by de-alloying amorphous alloys**

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**Mechanochemical and chemical activation of lignocellulosic material to prepare powdered activated carbons for adsorption applications**

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#### **Efficiency of "cyclodextrin-ibuprofen" inclusion complex formation**

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**Thermo-mechanical study of bulk glass forming Zr-Cu-Ni-Al alloys**

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**Room-temperature fabrication of core-shell nano-ZnO/pollen grain biocomposite for adsorptive removal of organic dye from water**

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#### **$\alpha$ -Cyclodextrin: How effectively can its hydrophobic cavity be hydrated?**

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**Mesoporous cellular-structured carbons derived from glucose-fructose syrup and their adsorption properties towards acetaminophen**

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#### **Polymer inclusion membranes as substrates for controlled in-situ gold nanoparticle synthesis**

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**The potential of polystyrene-block-polybutadiene-block-polystyrene triblock co-polymer as a base-polymer of polymer inclusion membranes (PIMs)**

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**Tuning the photocatalytic activity of carbohydrate-derived humins via ball milling: Insights by experimental and chemometrics approach**

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**A novel construction of Z-scheme CuO/g-C<sub>3</sub>N<sub>4</sub> heterojunction for visible-light-driven photocatalysis in natural seawater**

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**Novel spherical simonkolleite nanoparticles and their promotional effect on the thermal decomposition of ammonium perchlorate**

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**LiMnPO<sub>4</sub>-olivine deposited on a nanoporous alloy as an additive-free electrode for lithium ion batteries**

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**Microstructural investigation of nanocrystalline hydrogen-storing Mg-titanate nanotube composites processed by high-pressure torsion**

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**Microstructural and morphological investigations on Mg-Nb<sub>2</sub>O<sub>5</sub>-CNT nanocomposites processed by high-pressure torsion for hydrogen storage applications**

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#### **The Influence of Preparation Conditions on the Hydrogen Sorption of Mg-Nb<sub>2</sub>O<sub>5</sub>-CNT Produced by Ball Milling and Subsequent High-Pressure Torsion**

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#### **Hierarchical CuO microparticles constructed via underwater Leidenfrost process and their Fenton-like catalytic activity**

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#### **Effect of hydrogen induced decrepitation on the hydrogen sorption properties of MmNi<sub>5</sub>**

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### **Inclusion complexes of ibuprofen and $\beta$ -cyclodextrin: Supramolecular structure and stability**

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### **Localization of mercury and gold in cassava (*Manihot esculenta* Crantz)**

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### **Hydrogen Gas Phase and Electrochemical Hydriding of $\text{LaNi}_{5-x}\text{M}_x$ ( $\text{M} = \text{Sn, Co, Al}$ ) Alloys.**

**Stanislava Todorova, Borislav Abrashev, Vesselina Rangelova, Lyuben Mihaylov, Evelina Vassileva, Konstantin Petrov, Tony Spassov**

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#### **Facile preparation of edelweiss-like ZnO microparticles with strong UV-violet emission**

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#### **Inclusion complexes of (S)-naproxen and native cyclodextrins: Supramolecular structure and stability**

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#### **Mesoporous cauliflower-like CuO/Cu(OH)<sub>2</sub> hierarchical structures as an excellent catalyst for ammonium perchlorate thermal decomposition**

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#### **Facilitated synthesis of Mg<sub>2</sub>Ni based composites with attractive hydrogen sorption properties**

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**Glass forming ability of Zr-based Zr–Cu–Ni–Al–(Ag) alloys**

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