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Strukturne i termijske karakteristike mehanohemijski tretiranih metalnih prahova

Structural and thermal characteristics of mechanochemically treated metal powders



Miodrag Zdujić



U ovom radu je ispitivano dobijanje neravnotežnih struktura u metalima mehanohemijskim tretmanom. Strukturne i termijske karakteristike prahova mehanohemijski tretiranih različito vreme mlevenja su ispitivane rendgenskom strukturnom analizom, diferencijalnom skanirajućom kalorimetrijom, diferencijalnom termijskom analizom, kao i skanirajućom i transmisijom elektronskom mikroskopijom. Eksperimentalni rezultati su diskutovani sa kinetičkog i termodinamičkog stanovišta.

Mehanohemijski tretmani, tj. mehaničko legiranje smeša čistih prahova aluminijuma i molibdena različitih početnih sastava (Al-O, 3, 10, 17, 20, 27, 50, 75 i 100 at.%Mo) su rađeni u horizontalnom kugličnom mlinu. U svim sličajevima mlevenje proizvodi nanokristalnu i/ili amorfnu strukturu. Tokom naknadnog termijskog tretmana, ovakvi metastabilni proizvodi lako reaguju obrazujući intermetalna jedinjenja: Al₁₂Mo, Al₅Mo, Al₄Mo, Al₆Mo₃ i AlMo₃.

Smesa prahova nikla i molibdena (Ni-50 at.%Mo) je mlevena u različitim tipovima mlinova. Mehaničkim legiranjem u horizontalnom kugličnom mlinu dobija se amorfna faza. U planetarnom i vibracionom mlinu, zbog veće energije mlevenja, dobija se neuređeno intermetalno jedinjenje.

Mehanohemijska reakcija amortizacije u oba ispitivana sistema je slična i odvija se u četiri stupnja: (i) obrazovanje veoma finog kompozitnog praha, (ii) obrazovanje čvrstog rastvora Al(Mo) ili Ni(Mo), (iii) transformacija presićenog čvrstog rastvora u amorfnu fazu i (iv) postepeno rastvaranje zaostalih kristalita molibdena u amorfnoj matrici.



In this study the formation of non-equilibrium structures in metals by mechanochemical treatment has been investigated. The structural and thermal properties of powders mechanochemically treated for various milling times have been studied by X-ray diffraction, differential scanning calorimetry, differential thermal analysis, as well as scanning and transmission electron microscopy. The experimental results were discussed from kinetic and thermodynamic point of view.

Mechanochemical treatment, i.e. mechanical alloying of mixture of aluminium and molybdenum powders of various starting compositions (Al-O, 3, 10, 17, 20, 27, 50, 75 and 100 at.%Mo) was performed in a horizontal ball mill. In all cases milling produced nanocrystalline or/and amorphous structures. During subsequent heat treatment such metastable products easily react leading to the formation of intermetallic phases: Al₁₂Mo, Al₅Mo, Al₄Mo, Al₆Mo₃ and AlMo₃.

Mixture of nickel and molybdenum powders (Ni-50 at.%Mo) was treated in various types of mills. Mechanical alloying in the horizontal ball mill yields an amorphous phase while in planetary and vibrating ball mill a disordered intermetallic compound was produced as a result of greater milling energies.

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The formation of amorphous phase in both systems is similar and occurs in four stages: (i) formation of very fine composite powders, (ii) formation of solid solution either Al(Mo) or Ni(Mo), (iii) collapse of supersaturated solid solution into the amorphous phase and (iv) gradual dissolution of residual molybdenum crystallites into the amorphous matrix.

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Author or Creator	Mitrić, Miodrag
Author or Creator	Milović, Miloš
Author or Creator	Jokić, Bojan
Author or Creator	Uskoković, Dragan
Subject and Keywords	Li ₂ FeSiO ₄
Subject and Keywords	cathode materials
Subject and Keywords	lithium iron orthosilicate
Subject and Keywords	crystal structure
Description	Recently lithium iron orthosilicate, Li ₂ FeSiO ₄ , has been found to display attractive electrochemical properties when used as cathode material. Because its constituent elements are non-toxic, low-cost and abundant, it is also attractive system from the standpoint of environmental sustainability. Li ₂ FeSiO ₄ compounds are known to exhibit a rich polymorphism and several crystal structures have been reported in the literature. Due to its complex polymorphism it is still a challenge obtaining a phase pure material. Here we report the properties of pure Li ₂ FeSiO ₄ obtained by solid-state reaction at 750 °C. It was found that Li ₂ FeSiO ₄ crystallizes in monoclinic P2 ₁ /n space group. In this structure one set of LiO ₄ tetrahedra are arranged in edge sharing pairs with FeO ₄ tetrahedra, while the other set of LiO ₄ tetrahedra forms edge sharing pairs with itself. In addition, galvanostatically cycled material was characterized in terms of structural and transport properties.
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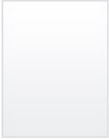


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Publisher: [Elsevier](#) [2012](#)

Edition/Format: [Archival material](#) : English

Publication: [Journal of Power Sources](#) [217 \(2012\) 193-198](#)

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Summary: [Electrochemically synthesized polyaniline \(PANI\) and lead dioxide have been investigated as electrode materials for PANI/1.1 M H₂SO₄; 0.5 M \(NH₄\)₂SO₄/PbO₂ rechargeable cell. At constant current charge/discharge of the cell, the average discharge potential of 1.1 V, specific capacity of 50 mA h g⁻¹, specific energy of 55 W h kg⁻¹, and self discharge rate of 2.2% per day have been obtained.](#)

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1. Structural and Morphological Properties of Nanostructured Y2O3:Eu3+ Phosphor Particles Prepared Through Aerosol Synthesis

Title: Structural and Morphological Properties of Nanostructured Y2O3:Eu3+ Phosphor Particles Prepared Through Aerosol Synthesis

Author: Marinković, Katarina ; Rabanal, Maria E. ; Gomez, Luz S. ; Martin, I. ; Milošević, Olivera

Description: Poster presented at the COST Action 539- ELENA, 3rd Workshop, Bled, Slovenia, September 2, 2007

Year of Publication: 2007

Document Type: doc-type:conferenceobject

Language: eng

Subjects: aerosol synthesis ; Y2O3:Eu3+ ; nanomaterials ; phosphor ; structural properties

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2. Na0.76Fe0.79Ti1.21O4 N - the new type compound obtained from natural ilmenite sand under hydrothermal conditions

Title: Na0.76Fe0.79Ti1.21O4 N - the new type compound obtained from natural ilmenite sand under hydrothermal conditions

Author: Mančić, Lidija ; Marinković, Bojan ; Jardim, Paula ; Rizzo, Fernando ; Marinković, Katarina ; Milošević, Olivera

Description: Poster presented at the COST Action 539- ELENA, 3rd Workshop, Bled, Slovenia, September 2, 2007

Year of Publication: 2007

Document Type: doc-type:conferenceobject

Language: eng

Subjects: ilmenite ; hydrothermal synthesis

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Year of first Publication: 2010. Tag: FTIR; Fourier transform ...

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... URL: <http://www.itn.sanu.ac.rs/opus4/frontdoor/index/index/docId/551>. Document Type: Conference Proceeding. Language: English. Date of Publication (online): 12.02.2014. Year of first Publication: 2008. Tag: Y3Al5O12:Ce3+; aerosol synthesis; urea. Pagenumber: 1. ...

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