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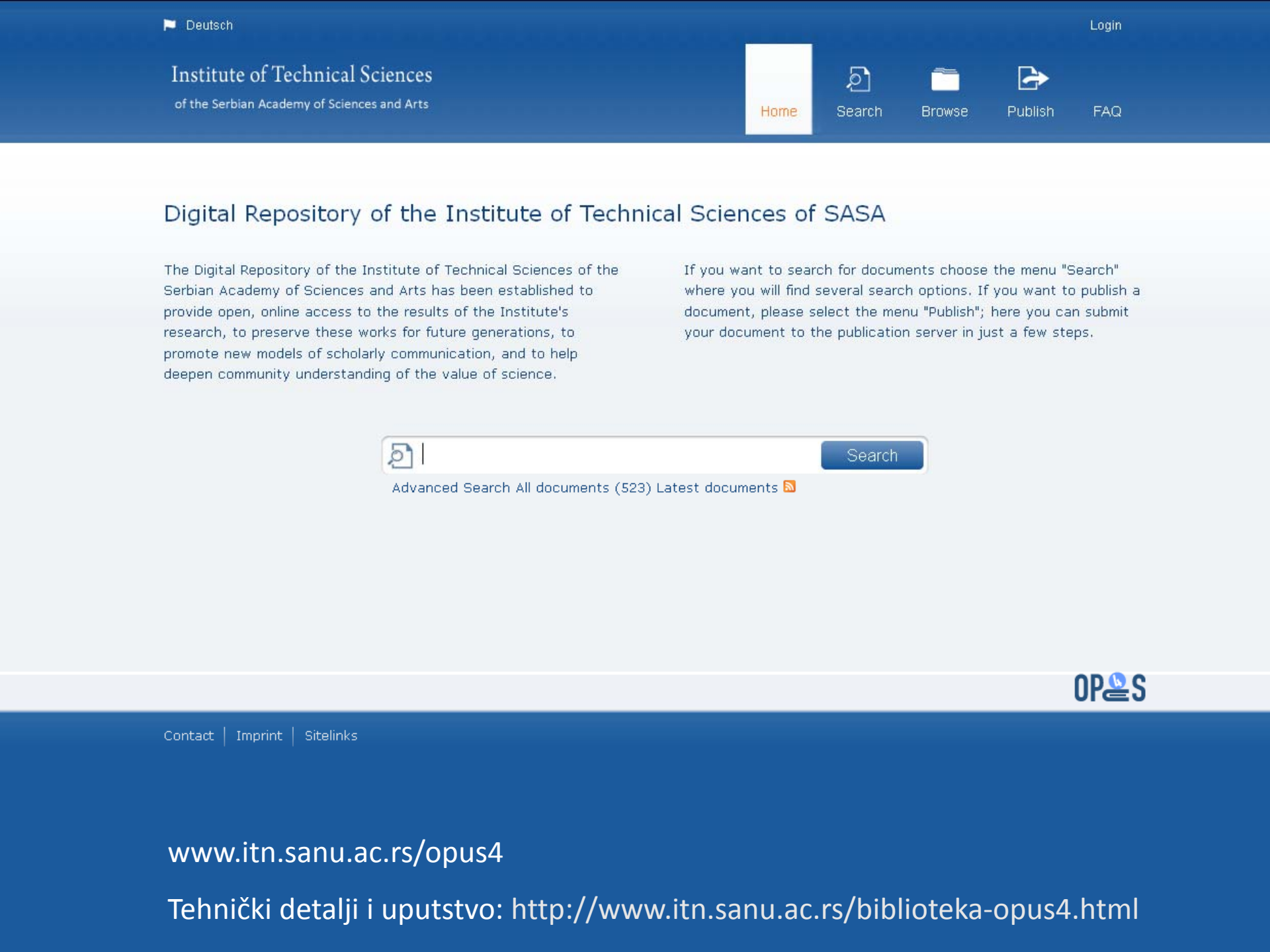

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Vladimir B. Pavlović (64)
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Nina Obradović (54)
Nenad Ignjatović (52)
Olivera Milošević (46)
Lidija Mančić (44)
Ljiljana Veselinović (41)
Branimir Jugović (39)

Year of publication

2012 (124)
2013 (123)
2014 (50)
2010 (36)
2011 (36)
2008 (30)
2007 (28)
2009 (20)
2005 (16)
2006 (12)

Document Type

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Doctoral Thesis (18)
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Book (9)
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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 neravnotežnin 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 transmisionom 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-0, 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, AlgMo3 i AlMo3.
Smesa prahova nikla i molibdena (Ni-50 at.%Mo) je mlevena u različitim tipovima mlinova. Mehaničkim legiranjem u horizontalnom kuglicnom 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, Al8Mo3 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.

Metapodaci

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.
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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Publisher:	University of Belgrade, Faculty of Technology and Metallurgy
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Referee:	Dejan Skala, Velimir Radmilović, Ljiljana Karanović
Advisor:	Dejan Poleti
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Tag:	Al-Mo system; Ni-Mo system; amorphous phase; intermetallics; mechanical alloying; mechanochemical treatment; metastable structures; milling; nanocrystalline materials; solid state reactions
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Author or Creator	Jugović, Dragana
Author or Creator	Mitrić, Miodrag
Author or Creator	Milović, Miloš
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Author or Creator	Uskoković, Dragan
Subject and Keywords	Li2FeSiO4
Subject and Keywords	cathode materials
Subject and Keywords	lithium iron orthosilicate
Subject and Keywords	crystal structure
Description	Recently lithium iron orthosilicate, Li2FeSiO4, 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. Li2FeSiO4 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 Li2FeSiO4 obtained by solid-state reaction at 750 °C. It was found that Li2FeSiO4 crystallizes in monoclinic P21/n space group. In this structure one set of LiO4 tetrahedra are arranged in edge sharing pairs with FeO4 tetrahedra, while the other set of LiO4 tetrahedra forms edge sharing pairs with itself. In addition, galvanostatically cycled material was characterized in terms of structural and transport properties.
Format	(2013) 75-75
Publisher	Belgrade : Materials Research Society of Serbia
Date	2013
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5. **Sonochemical Preparation of Hydroxyapatite/Poly (lactide-co-glycolyde) Composite**
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Electrochemical characteristics of rechargeable polyaniline/lead dioxide cell

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Author: Grgur, Branimir; Žeradjanin, Aleksandar; Gvozdenović, Milica; Maksimović, Miodrag; Trišović, Tomislav (PhD); Jugović, Branimir (PhD)

Publisher: : Elsevier 2012

Edition/Format: Archival material : English

Publication: Journal of Power Sources 217 (2012) 193-198

Database: WorldCat

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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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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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
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