# Institutional Repositories in Serbia: a good practice example

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An INSTITUTIONAL REPOSITORY is

a DATABASE

where

various RESEARCH OUTPUTS of an institution are archived and (if possible*) made publicly available for free.

An institutional repository is a digital library.

Enabling open access to research outputs helps promote an institution and its researchers.

* due to copyright issues and publishers' policies

# Database

has to comply with certain technical standards regarding…

- metadata structure (usually based on Dublin Core Metadata Initiative)
- formats and sizes of deposited files
- metadata transfer in other systems (OAI-PMH)

# Research outputs

- Journal articles
- Conference papers, abstracts and proceedings
- Books and books chapters
- Theses
- Posters
- Datasets / research data
- Software
- Presentations
- Audio and video materials

Are there any institutional repositories in Serbia?

Yes, but not many.

# Institutional repositories in Serbia

- Digital Repository of the University of Belgrade (PHAIDRA, 2011)
- Digital Repository of the University of Niš (PHAIDRA)
- Digital Repository of the University of Kragujevac (PHAIDRA)
- CRIS UNS (University of Novi Sad)
- Digital Repository of the Institute of Technical Sciences of SASA (May 2013)
- Digital Repository of the Institute for Philosophy and Social Theory, University of Belgrade (January 2014)
- EBOOKS Repository (Institute of Economic Sciences, 2015)

## Other types

- National Library of Serbia - Digital Object Identifier Repository (doiSerbia)
- SCIndeks
- eLibrary (Faculty of Mathematics, University of Belgrade, Mathematical Institute of the Serbian Academy of Science and Art, Serbian Ministry of Science, National Center for Digitization)
- Nasi u FP
- NaRDuS - National Repository of Dissertations in Serbia
- CaSA NaRA (National Repository of Agricultural Education)

# In order to establish an institutional repository it is necessary to have…

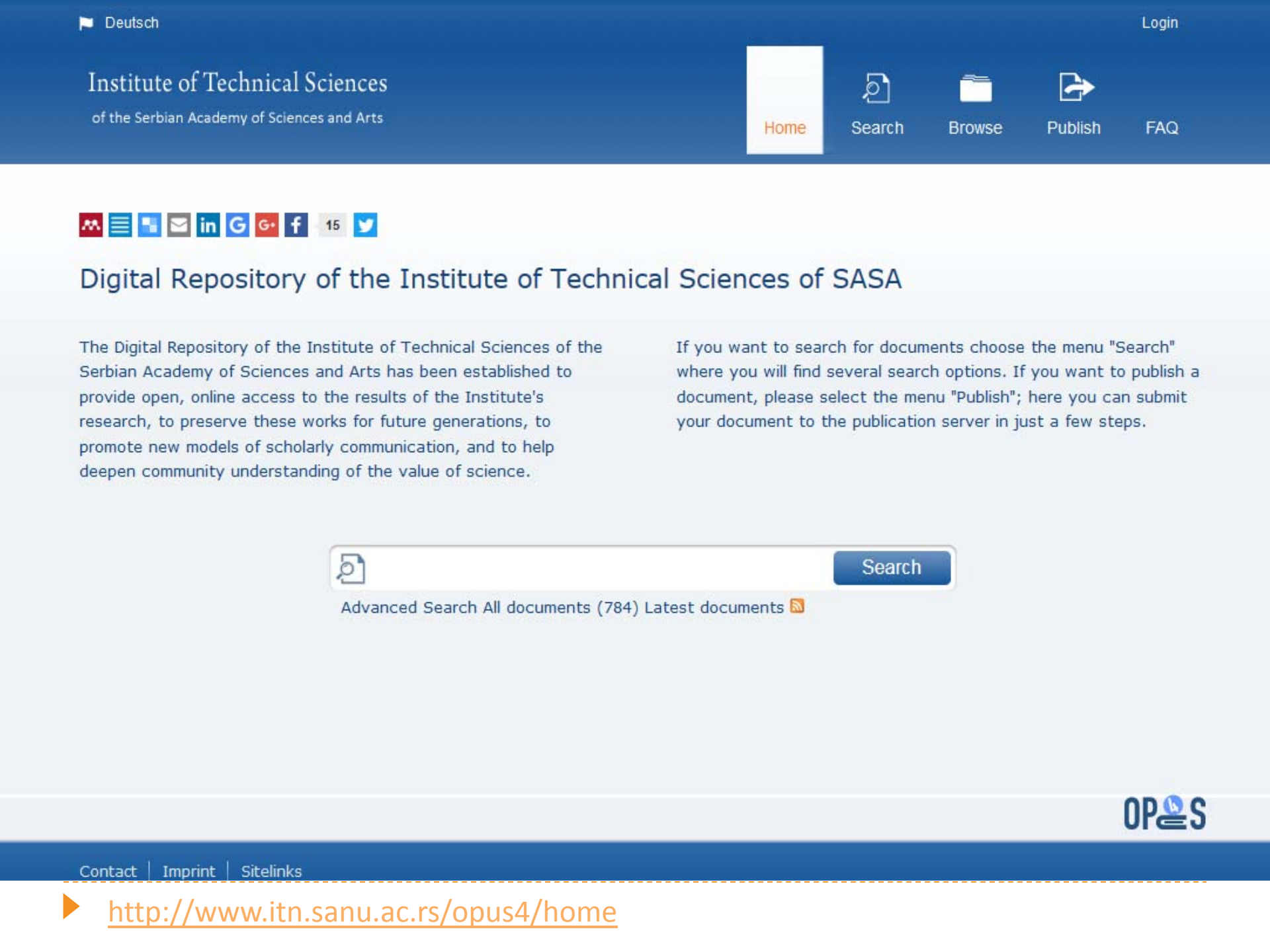
- hardware (server or hosting)
- software (a whole array of open source solutions: Dspace, Eprints, Invenio, Fedora, etc.)
- someone to install the software
- someone to manage and curate the repository (preferably a librarian)
- researchers who wish to deposit (or have deposited on their behalf) their research outputs

# A good practice example:

## Digital Repository of the Institute of Technical Sciences of SASA

- established in May 2013
- hosted on a server owned by ITS SASA
- software platform: OPUS4 (http://www.kobv.de/entwicklung/software/opus-4/)
- installed by a (volunteer) system administrator
- maintaned by a librarian

http://www.itn.sanu.ac.rs/opus4/home

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Ljiljana Veselinović (53)
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**Year of publication**

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**Document Type**

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**Language**

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Ljiljana Veselinović

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- Books of abstracts published by ITS SASA
- Periodicals

# Kristalna struktura i električne karakteristike BaTi1-xSnxO3 i CaCu3Ti4-xRuxO12 perovskitnih materijala

Crystal structure and electrical properties of BaTi1-xSnxO3 and CaCu3Ti4-xRuxO12 perovskites materialas

Ljiljana Veselinović

In order to establish a correlation of phase transformations with relative dielectric permitivity of the ABX3 perovskites and double AC3B4O12 perovskites, phase composition and crystal structure of the BaTi1−xSnxO3 and CaCu3Ti4-xRuxO12 materials, were examined in details. The influence of Sn for Ti substitution on the crystal structure of barium titanate stannate (BTS) BaTi1−xSnxO3 (x = 0, 0.025, 0.05, 0.07, 0.10, 0.12, 0.15 and 0.20) was investigated. The powders were prepared by conventional solid state reaction technique. The structural investigations of the BTS powders were done at room temperature by X-ray powder diffraction (XRD), transmission electron microscopy (TEM), high-resolution TEM (HRTEM), selected area electron diffraction (SAED), as well as Raman spectroscopy analyses. Rietveld refinement of XRD data indicates that gradual replacement of titanium by tin in BaTiO3 provokes phase transition from tetragonal for 0≤x≤07 to cubic for x= 0.12, 0.15 and 0.20. Coexistence of tetragonal (P4mm) and cubic (Pm3m) crystal phases was found in powder with BaTi0.9Sn0.1O3 nominal composition. The crystal phases determined by Rietveld refinement were confirmed by HRTEM and SAED analyses. The crystal structures of BTS powders at middle-range scale were studied by Raman spectroscopy which shows tetragonal (P4mm) and small fraction of orthorhombic (Pmm2) crystal phases for all the examined BTS powders, implying the lower local ordering when compared to average symmetry. In order to provide a more precise determination of BTS crystal structures the neuton powder difraction (NPD) was used. The room temperature phase composition and crystal structures of BTS samples with x = 0, 0.025, 0.05, 0.07, 0.10, 0.12, 0.15 and 0.20 were determined by Rietveld refinement of NPD data. The crystal structure of the barium titanate sample (x=0) crystallizes in the well-known tetragonal P4mm space group. The crystal structure of the samples with 0.025≤x≤ 0.07 were refined as mixtures of P4mm and Amm2 phases; those with x = 0.10 and 0.12 show the coexistence of rhombohedral R3m and cubic Pm3m phases, while the samples with x=0.15 and 0.20 crystallize in a single cubic Pm3m phase. Temperature-dependent NPD was used to characterize the BaTi0.95Sn0.05O3 sample at 0, 60, and 100 °C which was found to form single phase Amm2, P4mm, and Pm3m structures at these temperatures, respectively.

U cilju uspostavljanja korelacije faznih transformacija i relativne dielektrične permitivnosti perovskita ABX3 tipa i složenih perovskita AC3B4O12 tipa, detaljno su proučeni fazni sastav i kristalna struktura BaTi1−xSnxO3 i CaCu3Ti4-xRuxO12 materijala. Struktura barijum titanat stanatnih BaTi1−xSnxO3 (BTS) (x=0; 0,025; 0,05; 0,07; 0,10; 0,12; 0,15 i 0,20) prahova analizirana je na sobnoj temperaturi uz pomoć rendgenske difrakcione analize (XRD), transmisione elektronske mikroskopije (TEM), visoko rezolucione transmisione elektronske mikroskopije (HRTEM), elektronske difrakcije sa odabrane površine (SAED), kao i ramanske spektroskopske analize. Rezultati Ritveldove analize, primenjene na podatke prikupljene rendgenskom difrakcijom sa polikristalnih materijala, pokazali su da postepena zamena jona titanijuma jonima kalaja u BaTiO3 perovskitima, dovodi do faznih transformacija od tetragonalne za 0≤x≤0,07 do kubne za x= 0,12; 0,15 i 0,20. Koegzistencija tetragonalne (P4mm) i kubne (Pm3m) kristalne faze utvrđena je kod praha sa nominalnim sastavom BaTi0,9Sn0,1O3. Promene kristalne strukture određene na osnovu Ritveldovog utačnjavanja potvrđene su HRTEM i SAED analizom. Za analizu lokalnog uređenja proučavanih prahova

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koegzistenciju romboedarske R3m i kubne Pm3m faze. Prahovi kod kojih je x=0,15 i 0,20 kristališu u pravilnoj kubnoj strukturi. Neutronska difrakcija sa polikristalnih uzoraka na temperaturama od 110, 60 i 0 °C korišćena je za karakterizaciju praha BaTi0,95Sn0,5O3, kao karakterističnog uzorka. Prikupljeni podaci utačnjeni su uz pomoć Ritveldove metode. Dobijeni rezultati pokazali su prisustvo faznih transformacija od kubne Pm3m na 110 °C preko tetragonalne P4mm na 60 °C do ortorombične Amm2 na 0 °C. Ovi rezultati u saglasnosti su sa rezultatima dobijenim metodom diferencijalne skenirajuće kalorimetrije (DSC) i merenjima relativne dielektrične konstante, a pokazuju paraelektrik/feroelektrik faznu transformaciju (posledica strukturnih transformacija) od kubne Pm3m do tetragonalne P4mm na oko 80 °C praćenu faznom transformacijom od P4mm do Amm2 na oko 30 °C.
Složeni perovskiti CaCu3Ti4-xRuxO12 (x= 0; 2; 4) sintetisani su mehanohemijski. Fazni sastav kao i strukturne karakteristike određeni su na osnovu podataka prikupljenih rendgenskom difrakcionom analizom. Dobijeni rezultati Ritveldovog utačnjavanja pokazali su da ovi materijali zadržavaju kubnu 3 Im kristalnu strukturu bez obzira da li je u kristalografskom položaju B u strukturi ovih materijala, smešten titanijum ili rutenijum. Dobijeni rezultati potvrđeni su TEM, HRTEM i SAED metodama. Sa druge strane, električna merenja su pokazala da promena stehiometrije utiče na promenu električnih svojstava ovih materijala.

Metadata

**Metadaten**

| | |
|---|---|
| **Author:** | Ljiljana Veselinović |
| **Publisher:** | University of belgrade, Faculty of Physical Chemistry |
| **Place of publication:** | Belgrade |
| **Referee:** | Miodrag Mitrić, Ljiljana Damnjanović |
| **Advisor:** | Nikola Cvjetićanin, Smilja Marković |
| **Document Type:** | Doctoral Thesis |
| **Language:** | srp |
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| **Tag:** | CaCu3Ti4O12; XRD; barium titanate stannate; calcium copper titanate; electrical properties |
| **Pagenumber:** | 149 |
| **Institutes:** | Institute of Technical Sciences of the Serbian Academy of Sciences and Arts |
| **Open access:** | |
| **Collections:** | PhD Theses |
| **Projects 2011-2015:** | III 45004 - Molecular designing of nanoparticles with controlled morphological and physico-chemical characteristics and functional materials based on them |
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- TR 36035 - Spatial, Ecological, Energy and Social aspects of the Development of Settlements and Climate Changes (7)
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- III 44008 - Design of robot as assistive technology in treatment of children with developmental disorders (14)
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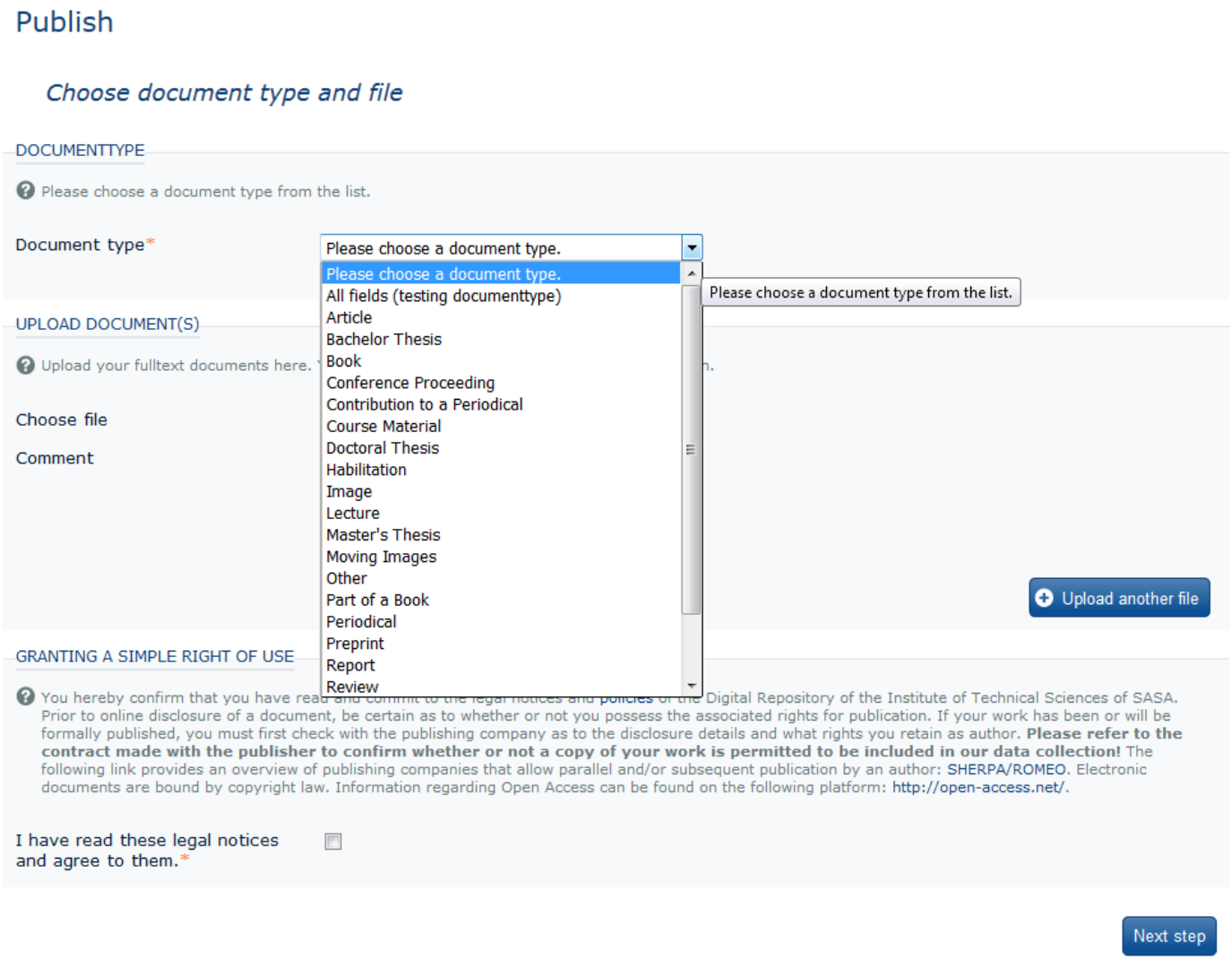


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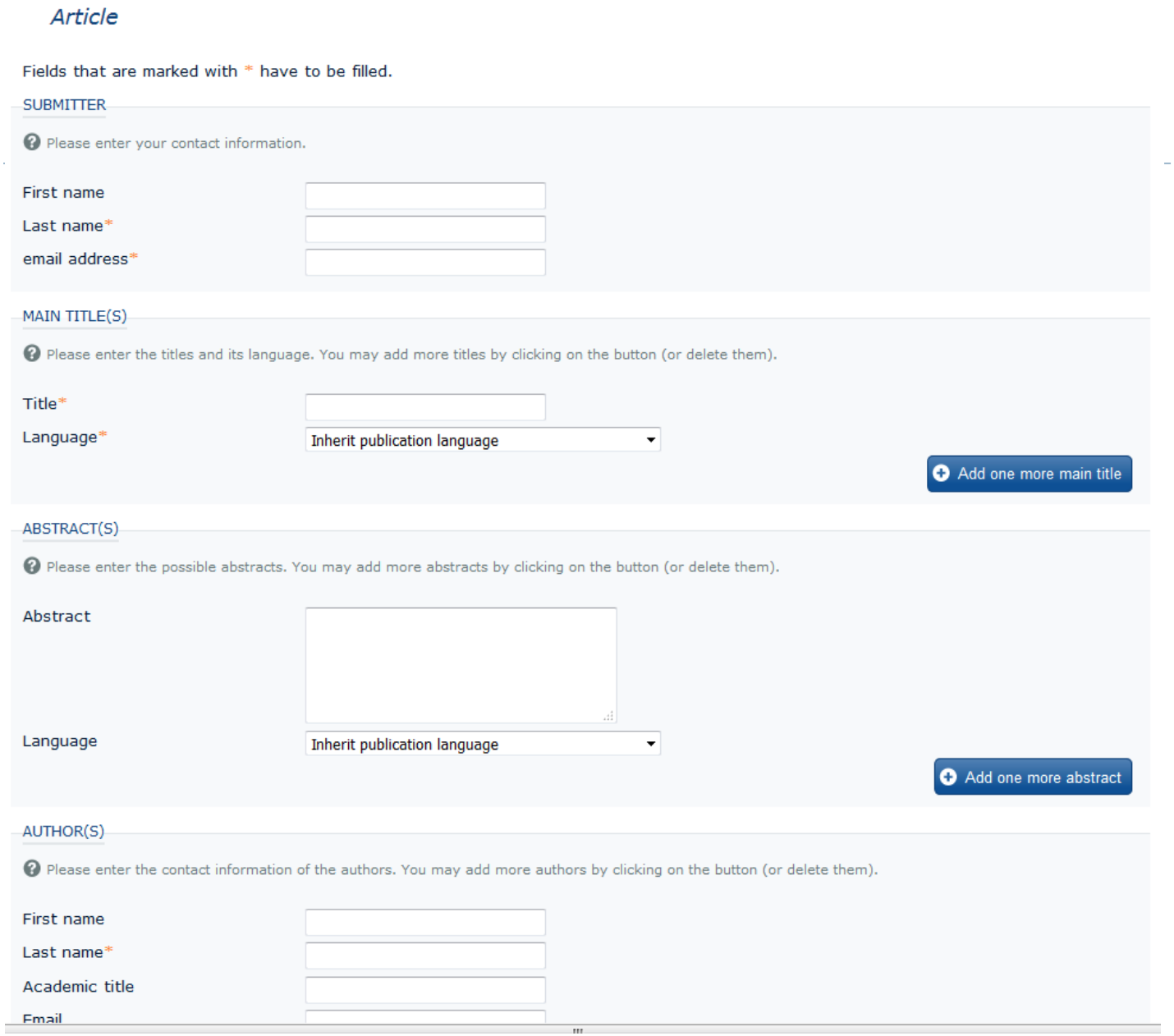


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| **OAI Identifier** | oai:opus4.demo:413 oai_dc formats |
| **Datestamp** | 2016-07-16 |
| **setSpec** | doc-type:article Identifiers Records |
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**Dublin Core Metadata (oai_dc)**

| | |
|---|---|
| **Title** | Determination of Particle Size Distributions by Laser Diffraction |
| **Author or Creator** | Stojanović, Zoran |
| **Author or Creator** | Marković, Smilja (PhD) |
| **Author or Creator** | Uskoković, Dragan (PhD) |
| **Subject and Keywords** | Malvern Instruments |
| **Subject and Keywords** | Mastersizer 2000 |
| **Subject and Keywords** | laser diffraction and scattering |
| **Subject and Keywords** | particle size distribution |
| **Description** | The paper deals with the main principles of determination of particle size distribution using Mastersizer 2000, Malvern Instruments Ltd., UK. On the example of several problems we have demonstrated that the method is not a routine one and that the measurement procedure is not limited to entering a sample into the dispersion unit and pressing the button. Furthermore, we have shown that the sample preparation method and, therefore, the accuracy of results conclusively depend on physical and chemical properties of the analyzed materials. |
| **Format** | 67 Special edition (2012) 11-20 |
| **Publisher** | Beograd : Savez inženjera i tehničara Srbije |
| **Date** | 2012 |
| **Resource Type** | doc-type:article |
| **Format** | application/pdf |
| **Resource Identifier** | |
| **Resource Identifier** | 0354-2300 |
| **Resource Identifier** | |
| **Resource Identifier** | http://www.itn.sanu.ac.rs/opus4/frontdoor/index/index/docId/413 |
| **Resource Identifier** | http://www.itn.sanu.ac.rs/opus4/files/413/Stojanovic_Technics_67_11-20.pdf |
| **Source** | Technics – New Materials (Special Edition) |
| **Language** | eng |
| **Rights Management** | Creative Commons - Attribution-Noncommercial-No Derivative Works 3.0 Serbia |

- Open Archives Initiative Protocol for Metadata Harvesting

CORE "Institute of technical sciences" Search

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**Refine your search**

**Publication type**

- [x] with fulltext only

**Language**

- [ ] English (2)
- [ ] Czech (1)

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2004 - 2015

**Authors**

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- [ ] Mitrić, Miodrag (22)

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## 3. Influence of mechanical activation on structural and electrical properties of sintered MgTiO3 ceramics

**Open Access**

| | |
|---|---|
| **Title:** | Influence of mechanical activation on structural and electrical properties of sintered MgTiO3 ceramics |
| **Author:** | Filipović, Suzana ; Obradović, Nina ; Pavlović, Vladimir B. ; Petrović, V. ; Mitrić, Miodrag |
| **Description:** | The aim of this work was to analyze the influence of mechanical activation on the MgCO3-TiO2 system. Mixtures of MgCO3-TiO2 were mechanically activated for 15, 30, 60 and 120 minutes in a planetary ball mill and after that sintered at 1100°C for 1h. XRD analyses were performed in order to give information about the phase composition and to determine a variety of microstructure parameters using Scherrer's method. Also, the effect of tribophysical activation and sintering process on microstructure was investigated by scanning electron microscopy. Electrical measurements were performed in order to determine electrical properties of sintered samples. Our conclusions are that the sample activated for 120 min showed the best electrical properties ( ε r=23.86, Q=233, p=0.38) and exhibited the best sinterability. Minimize |
| **Publisher:** | Belgrade : International Institute for the Science of Sintering |
| **Year of Publication:** | 2009 |
| **Source:** | Science of Sintering |
| **Document Type:** | doc-type:article |
| **Language:** | eng |
| **Subjects:** | ceramics ; MgTiO3 ; magnesium titanate ; sintering ; electrical properties |
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- **Number of documents:** 784
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M Zdujić - 2006 - itn.sanu.ac.rs
... Metadaten. Author: Miodrag Zdujić. URL: http://www.**itn.sanu.ac.rs/opus4**/frontdoor/index/index/docId/512. ISBN: 9781420027662. Parent Title (English): Finely Dispersed Particles: Micro-, Nano-, and Atto-Engineering. Series (Serial Number), Surfactant Science Series (130). ...
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[Цитат] Aerosol synthesis of phosphor based on Eu3+ activated gadolinium oxide matrices
O Milošević, R Marić, S Ohara, T Fukui - 2001 - itn.sanu.ac.rs
... URL: http://www.**itn.sanu.ac.rs/opus4**/frontdoor/index/index/docId/598. Document Type: Conference Proceeding. Language: English. Date of Publication (online): 20.03.2014. Year of first Publication: 2000. Tag: Eu3+; aerosol synthesis; gadolinium oxide; phosphor. Pagenumber: ...
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Electrochemical polymerization of aniline
M Gvozdenović, B Jugović, J Stevanović, T Trišović... - 2011 - itn.sanu.ac.rs
... URL: http://www.**itn.sanu.ac.rs/opus4**/frontdoor/index/index/docId/513. DOI: http://dx.doi.org/DOI: 10.5772/28293. ISBN: 978-953-307-693-5. Parent Title (English): Electropolymerization. Publisher: InTech. Place of publication: Rijeka. Editor: Ewa Schab-Balcerzak. ...
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## Determination of Particle Size Distributions by Laser Diffraction

Zoran Stojanović, Smilja Marković, Dragan Uskoković

The paper deals with the main principles of determination of particle size distribution using Mastersizer 2000, Malvern Instruments Ltd., UK. On the example of several problems we have demonstrated that the method is not a routine one and that the measurement procedure is not limited to entering a sample into the dispersion unit and pressing the button. Furthermore, we have shown that the sample preparation method and, therefore, the accuracy of results conclusively depend on physical and chemical properties of the analyzed materials.

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## Determination of particle size distributions by laser diffraction

Аутори Zoran Stojanović, Smilja Marković, Dragan Uskoković

Датум објављивања 2012

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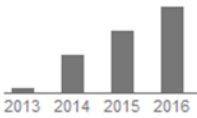


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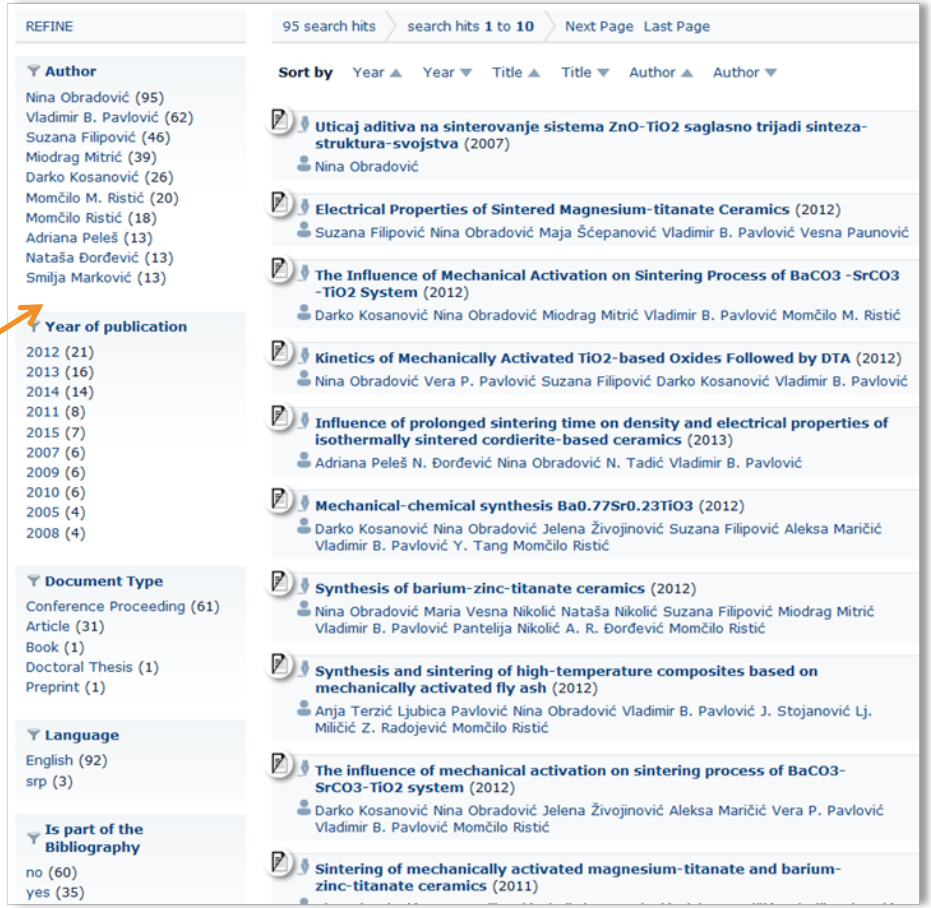
Nina Obradović was born on March 25, 1977 in Belgrade, Serbia. She graduated from the Faculty of Physical Chemistry, University of Belgrade, in 2001. The title of her graduation thesis was "Dissociation constants of tyrosine and its possibility for complexion with Sn(II)-ion". She acquired her MSc degree at the same Faculty in 2005 with thesis "Sintering of ZnO-TiO2 system". Nina Obradović was elected a Research Assistant in 2005. She defended her PhD thesis at the Faculty of Physical Chemistry in Belgrade ("The additive influence on sintering of ZnO-TiO2 system according to triad 'synthesis-structure-properties'") in December 2007.

She has been working at the Institute since 2002.
Nina Obradović is a member of the Serbian Ceramic Society and the Society of Physical Chemists of Serbia.

She is is a reviewer for the *Electrochemical and Solid State Letters*, *Processing and Application of Ceramics*, *International Journal of Molecular Sciences*, *Tehnika*.



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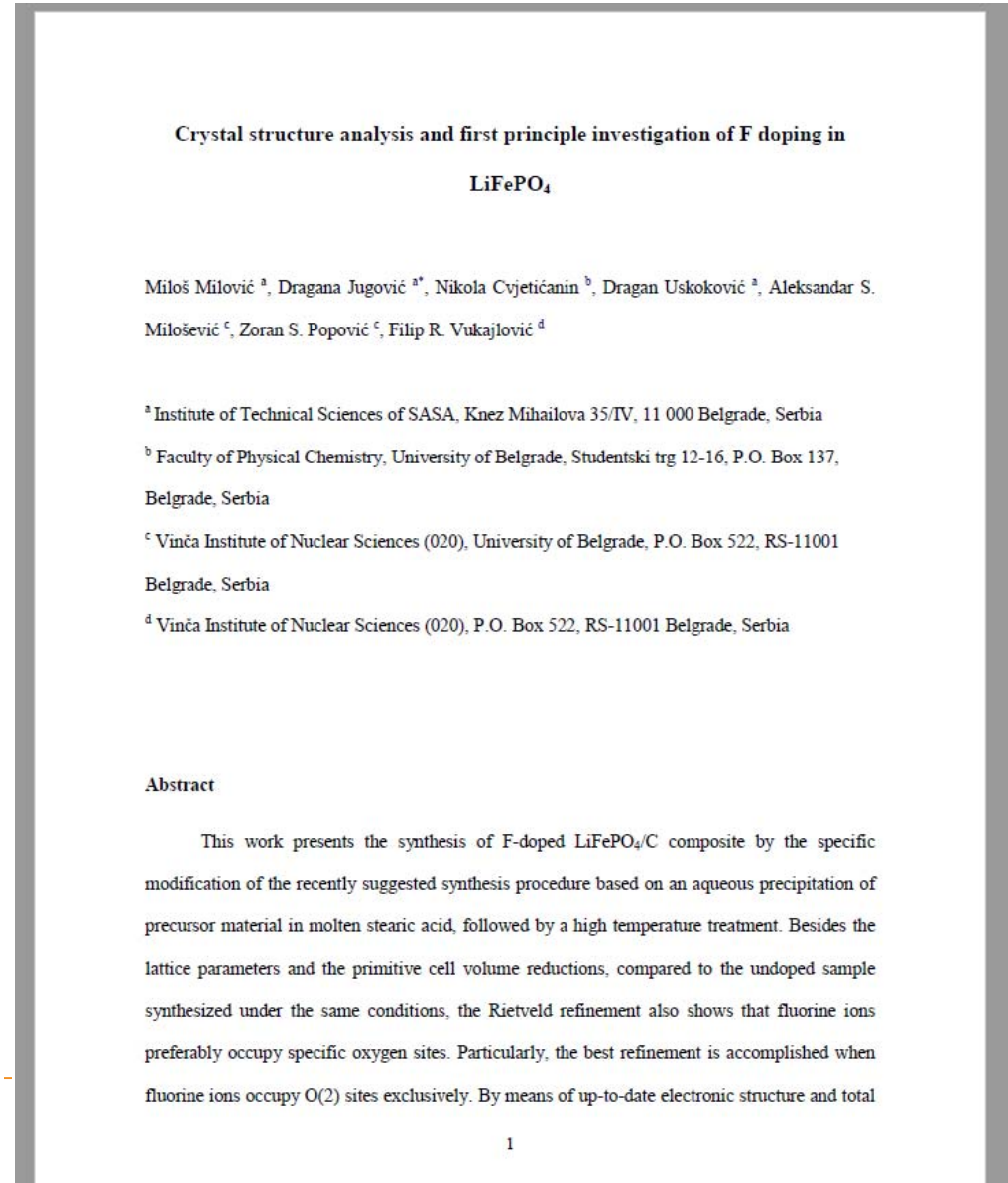

**Crystal structure analysis and first principle investigation of F doping in $LiFePO_4$**

Miloš Milović [a], Dragana Jugović [a*], Nikola Cvjetićanin [b], Dragan Uskoković [a], Aleksandar S. Milošević [c], Zoran S. Popović [c], Filip R. Vukajlović [d]

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**Abstract**

This work presents the synthesis of F-doped $LiFePO_4/C$ composite by the specific modification of the recently suggested synthesis procedure based on an aqueous precipitation of precursor material in molten stearic acid, followed by a high temperature treatment. Besides the lattice parameters and the primitive cell volume reductions, compared to the undoped sample synthesized under the same conditions, the Rietveld refinement also shows that fluorine ions preferably occupy specific oxygen sites. Particularly, the best refinement is accomplished when fluorine ions occupy O(2) sites exclusively. By means of up-to-date electronic structure and total

# Hydrogen storage in a layered flexible [Ni2(btc)(en)2]n coordination polymer

Vladimir Blagojević, Vladimir Lukić, Nebojša N. Begović, Aleksa Maričić, Dragica Minić

[Ni2(btc)(en)2]n coordination polymer exhibits a layered two-dimensional structure with weak interaction between the layers. Correlation of experimental measurements, DFT calculations and molecular simulations demonstrated that its structural features, primarily the inherent flexibility of the layered polymeric structure, lead to improved hydrogen storage performance at room temperature, due to significant enhancement in isosteric heats of hydrogen adsorption. Volumetric measurements of hydrogen adsorption at room temperature show up to 0.3 wt.% hydrogen absorbed at 303 K and 2.63 bar of hydrogen pressure, with isosteric heats of adsorption of about 12.5 kJ mol−1. Predicted performance at room temperature is 1.8 wt.% at 48 bar and 3.5 wt.% at 100 bar, better than both MOF-5 and NU-100, with calculated values of isosteric heats for adsorption of hydrogen in 8–13 kJ mol−1 range at both 77 K and 303 K. Grand canonical Monte Carlo calculations show that this material, at 77 K, exhibits gravimetric hydrogen densities of more than 10 wt.% (up to 8.3 wt.% excess) with the corresponding volumetric density of at least 66 gL−1, which is comparable to MOF-5, but achieved with considerably smaller surface area of about 2500 m2 g−1. This study shows that layered two-dimensional MOFs could be a step towards MOF systems with significantly higher isosteric heats of adsorption, which could provide better room temperature hydrogen storage capabilities.



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Dragana Jugović, Miloš Milović, Valentin N. Ivanovski, Max Avdeev, Robert Dominko, Bojan Jokić, Dragan Uskoković

A composite powder Li2FeSiO4/C is synthesized through a solid state reaction at 750 °C. The Rietveld crystal structure refinement is done in the monoclinic P21/n space group. It is found that the crystal structure is prone to "antisite" defect where small part of iron ion occupies exclusively Li(2) crystallographic position, of two different lithium tetrahedral positions (Li(1) and Li(2)). This finding is also confirmed by Mössbauer spectroscopy study: the sextet evidenced in the Mössbauer spectrum is assigned to the iron ions positioned at the Li(2) sites. A bond-valence energy landscape calculation is used to predict the conduction pathways of lithium ions. The calculations suggest that Li conductivity is two-dimensional in the (101) plane. Upon galvanostatic cyclings the structure starts to rearrange to inverse βII polymorph.

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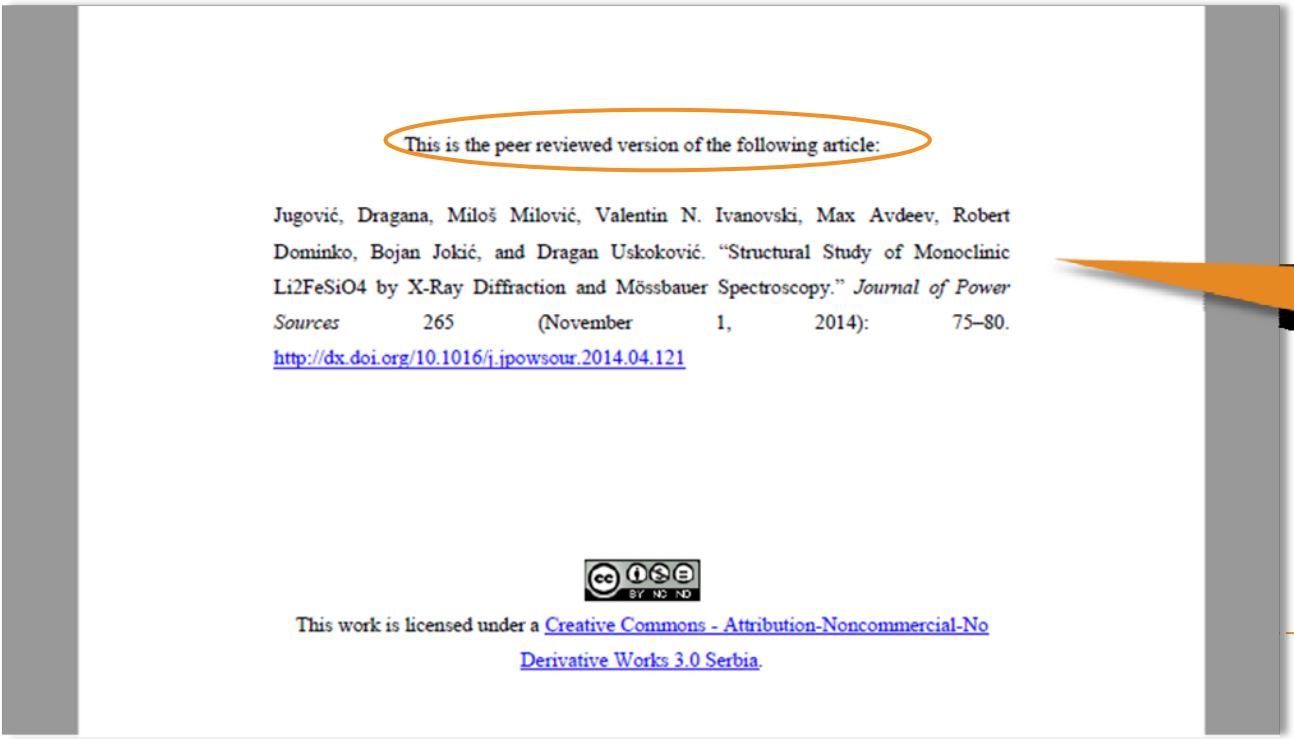

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