

# Analiza izdavačke politike i prakse časopisa u otvorenom pristupu iz Srbije

Milica Ševkušić  
Institut tehničkih nauka SANU

Narodna biblioteka Srbije, 7. novembar 2016.

Projekat:

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# Revisiting Open Access Journal Policies and Practices in Serbia

22. mart 2016 – 22. januar 2017.

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## Ciljevi projekta


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▶ Uvid u stanje 

▶ Analiza stanja 

▶ Definisanje dobre izdavačke politike 

▶ Informisanje i edukacija izdavača 

▶ Prvi korak ka tehničkom unapređivanju sajtova časopisa 

## Akcije

Anketa

Izveštaj

Gotovi modeli koji se lako mogu prilagoditi

Sajt sa uputstvima, korisnim informacijama, edukativnim materijalima i literaturom (*Kutak za izdavače*)

Unapređivanje servisa DOI Serbia; radionice za izdavače



# Anketa

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- ▶ Veliki odziv: 250 validnih odgovora:
    - ▶ 45 časopisa iz doiSerbia
    - ▶ 117 časopisa iz Scindeksa
    - ▶ 7 časopisa nema sajt
    - ▶ 13 časopisa ima samo elektronsku verziju
    - ▶ 1 časopis je bio u otvorenom pristupu, a sada više nije
    - ▶ više od 50% nema eksplicitno definisanu politiku otvorenog pristupa
    - ▶ 90% časopisa koji su odgovorili na anketu redovno postavlja radove/sveske na sajt časopisa
    - ▶ više od 85% ne koristi OnlineFirst opciju
    - ▶ oko 50% objavljuje sveske prvo na sajtu, a štampa tek kada za to ima novca
    - ▶ gotovo polovina časopisa troši više od 50% budžeta na štampu
    - ▶ polovina časopisa ima tiraž 100–300
- 



# Problemi

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- ▶ Neinformisanost članova redakcija
  - ▶ Nepažljivo čitanje ili zanemarivanje Akta o uređivanju naučnih časopisa (*Službeni glasnik Republike Srbije*, br. 79/05)
  - ▶ Nepoznavanje tehničkih standarda
  - ▶ Relativnost motivacije: postoji želja da se dosegne neki rang u okviru nacionalnog ili internacionalnog sistema vrednovanja, a ne da se postigne maksimalni kvalitet
  - ▶ Nedostatak tehničke podrške
  - ▶ Sajtovi lošeg kvaliteta
  - ▶ Časopisi nemaju zasebne sajtove
  - ▶ „Dupli“ sajtovi
- 



- 
- ▶ 70% časopisa nikada nije apliciralo za referisanje u Web of Science.
  - ▶ 70% časopisa nikada nije apliciralo za referisanje u Scopusu.
  - ▶ Više od 60% časopisa nikada nije apliciralo za indeksiranje u DOAJ.
  - ▶ Više od 70% časopisa nikada nije apliciralo za referisanje u bilo kojoj bazi podataka (osim tri već navedene).

ZAŠTO?





# DOI oznake

- ▶ Desetak časopisa je odgovorilo da se člancima ne dodeljuju DOI oznake, iako se dodeljuju.
- ▶ Neki časopisi ne unose DOI oznake u PDF verzije radova, a neki ih ne navode ni na sajtu.
- ▶ DOI oznake se na sajtovima često ne navode u formi html linka (date su kao „mrtav“ tekst).

Ordinary kriging for the estimation of vein type copper deposit: A case study of the Chelkureh, Iran

Daya Ali Akbar

University of Sistan and Baluchestan, Department of Mining Engineering, Zahedan, Iran

e-mail: aliakbardaya@eng.usb.ac.ir

Abstract

## Abstract

Estimation of mineral resources and reserves with low values of error is essential in mineral exploration. The aim of this study is to estimate and model a vein type copper deposit using ordinary kriging method. After studying of variograms in different directions it was found out that the ore deposit has no anisotropy. The best fitted variogram model was considered for ordinary kriging estimation. Cross-validation was used to evaluate the accuracy of the variogram model for kriging. After trial and error a variogram with the best summary statistics was chosen. Model consists of a pure nugget effect with 0,30 amplitude plus a spherical scheme with sill 1.10 and range 30 m. The cross validation results showed that the correlation coefficient between estimated and real data was 0.829. The resource was classified based on calculated estimation errors by JORC code. Results showed that ordinary kriging can be used to model and estimate the vein type deposit. Consequently a three dimensional model of estimated value and error estimated value was provided by ordinary kriging to divide the ore into an economic and uneconomic part.

*Journal of Mining and Metallurgy, 51A (1) (2015) 1 - 14*

Journal of  
Mining and  
Metallurgy

## ORDINARY KRIGING FOR THE ESTIMATION OF VEIN TYPE COPPER DEPOSIT: A CASE STUDY OF THE CHELKUREH, IRAN

Ali Akbar Daya<sup>#</sup>

University of Sistan and Baluchestan, Department of Mining Engineering, Zahedan, Iran

*(Received: February 18, 2015; Accepted: October 5, 2015)*

## Abstract

*Estimation of mineral resources and reserves with low values of error is essential in mineral exploration. The aim of this study is to estimate and model a vein type copper deposit using ordinary kriging method. After studying of variograms in different directions it was found out that the ore deposit has no anisotropy. The best fitted variogram model was considered for ordinary kriging estimation. Cross-validation was used to evaluate the accuracy of the variogram model for kriging. After trial and error a variogram with the best summary statistics was chosen. Model consists of a pure nugget effect with 0,30 amplitude plus a spherical scheme with sill 1.10 and range 30 m. The cross validation results showed that the correlation coefficient between estimated and real data was 0.829. The resource was classified based on calculated estimation errors by JORC code. Results showed that ordinary kriging can be used to model and estimate the vein type deposit. Consequently a three dimensional model of estimated value and error estimated value was provided by ordinary kriging to divide the ore into an economic and uneconomic part.*

**Key words:** *Ordinary kriging, JORC classification, Vein type, Chelkureh.*



# DOI oznake

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- ▶ Obavezno ih navedite i na sajtu, i u PDF verziji članka.
- ▶ Najbolje je da na oba mesta budu date u vidu „živih“ html linkova (veliki broj korisnika do PDF verzija članaka dolazi direktno iz pretraživača, pa je važno da odmah i bez problema identifikuju dokument koji su našli).
- ▶ Proverite da li su linkovi ispravni!
- ▶ Ako ste u mogućnosti, nabavite DOI oznake i retroaktivno (za radove u starijim sveskama koje su dostupne *online*).

„DOI se ispisuje se na početnoj strani članka na stalnom istaknutom mestu.“

Akt o uređivanju naučnih časopisa (*Službeni glasnik Republike Srbije, br. 79/05*)

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# OnlineFirst

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- ▶ Više od 85% časopisa ne koristi OnlineFirst opciju
- ▶ Razlozi:
  - ▶ ne znaju da postoji
  - ▶ misle da to iziskuje dodatne troškove
  - ▶ iz različitih tehničkih razloga (npr. zato što časopis nema samostalan sajt, zato što je komplikovano organizovati lekturu za svaki rad pojedinačno...)
- ▶ Odgovori na pitanje otkrivaju da određeni broj urednika/članova uredništava ne razume kako funkcionišu CrossRef, doiSerbia, Scindeks...



# OnlineFirst

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- ▶ OnlineFirst opcija postoji u okviru doiSerbia i besplatno je dostupna svim časopisima koji se nalaze u ovom sistemu.
- ▶ OnlineFirst opcija postoji u okviru CEON-ovog profesionalnog paketa.
- ▶ Ahead of Print opcija postoji kod De Gruyter Open.
- ▶ U OJS sistemu postoji mogućnost uvođenja OnlineFirst rubrike.
- ▶ I časopisi koji nisu u okviru pomenutih sistema mogu da koriste ovu opciju.
  - ▶ Odmah nakon prihvatanja, rad se postavlja na sajt časopisa u okviru rubrike koja je za te potrebe formirana.
  - ▶ Ako časopis koristi DOI oznake, takvom članku se odmah dodeljuje DOI oznaka, koja ostaje nepromenjena nakon objavljivanja konačne verzije.
  - ▶ Kada se obave lektura, prelom i korektura i formira se sveska, na sajt se postavlja finalna, paginirana verzija članka i uklanja se verzija koja se nalazila u rubrici OnlineFirst.



# OnlineFirst

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- ▶ Zahvaljujući opciji OnlineFirst, članak mnogo brže postaje dostupan zainteresovanoj publici – može se čitati i citirati.
- ▶ Umesto tek prihvaćenog (nelektorisanog) rukopisa može se postaviti lektorisana verzija teksta.
- ▶ Ova opcija je naročito korisna za časopise koji izlaze jednom godišnje, zato što radovi koji su ranije pristigli i koji su prihvaćeni za objavljivanje ne moraju da čekaju da se formira cela sveska da bi došli do publike.



# Recenzija

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- ▶ Preko 60% časopisa (onih koji su popunili anketu) primenjuje dvostruko slepu recenziju.
- ▶ Javne recenzije u pravom smislu te reči nema, ali u oko 2,5% časopisa identitet recenzenata je poznat autorima.
- ▶ Mali broj časopisa (oko 4%) ne sprovodi recenziju u pravom smislu te reči, nego tekstove ocenjuju urednik ili redakcija.
- ▶ U skoro 20% časopisa radove ocenjuje samo jedan recenzent.

„ Svaki naučni rad ocenjuju barem dva recenzenta.“

„Radovi klasifikovani kao naučni moraju imati bar dve pozitivne recenzije.“

Akt o uređivanju naučnih časopisa (*Službeni glasnik Republike Srbije, br. 79/05*)

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# Redakcijska dokumentacija - korespondencija

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- ▶ U oko 30% časopisa problem arhiviranja i čuvanja korespondencije nije rešen.
- ▶ U oko 15% časopisa svaki urednik čuva svoju arhivu.
- ▶ U oko 5% časopisa sva korespondencija se briše nakon objavljivanja sveske.

Uredništvo vodi Registar prispelih radova, Arhivu izjava autora, Uputstvo recenzentima, Listu recenzenata i Registar recenzija kao dokumenta od relativno trajne važnosti.

# Redakcijska dokumentacija – verzije radova

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- ▶ Oko 60% časopisa čuva sve verzije objavljenih radova (prema interno utvrđenom sistemu ili u okviru sistema za elektronsko uređivanje), ali ne znamo koliko dugo se čuvaju.
- ▶ 10% nepouzdanih odgovora
- ▶ U oko 10% redakcija urednici vode svoju arhivu (nema centralne)
- ▶ Preko 15% redakcija čuva samo finalni PDF, a sve prethodne verzije briše.



## Redakcijska dokumentacija – odbijeni radovi

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- ▶ Oko 70% časopisa čuva odbijene radove (prema interno utvrđenom sistemu ili u okviru sistema za elektronsko uređivanje), ali ne znamo koliko dugo se čuvaju.
- ▶ Oko 7% nepouzdanih odgovora
- ▶ Oko 10% časopisa briše odbijene radove
- ▶ Više od 50 posto časopisa ne vodi računa o statistici odbijenih i prihvaćenih radova.





# Dokumentacija

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- ▶ Dokumentacija nije vlasništvo urednika ili članova redakcije i mora se arhivirati prema jasno utvrđenom sistemu u redakciji (ili u okviru sistema za elektronsko uređivanje).
- ▶ Uredna dokumentacija omogućava kontinuirani rad redakcije u slučaju promene urednika ili članova uređivačkog odbora.
- ▶ Pažljivo arhivirana dokumentacija može biti od pomoći prilikom razrešavanja spornih situacija.
- ▶ Treba pratiti odnos broja prihvaćenih i odbijenih radova, kao i odnos broja radova stranih i domaćih autora.



## I ne samo dokumentacija...

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- ▶ Iz prakse je poznato da se u nekim redakcijama ni konačne/objavljene elektronske verzije ne arhiviraju prema jasno utvrđenom sistemu: čak i kada su iste dostupne na sajtu, u instituciji koja izdaje časopis ponekad je teško pronaći integralnu verziju sveske koja je identična objavljenoj (najčešće objašnjenje je da je ostala kod lica koje je radilo prelom, odnosno u štampariji).



## „Dupli“ / „paralelni“ sajtovi

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- ▶ Neki časopisi pretplaćeni na CEON-ov profesionalni paket održavaju i „paralelne“ sajtove na koje postavljaju PDF verzije svih radova ili kompletne sveske.
- ▶ Neki časopisi u De Gruyter Open sistemu održavaju i „paralelne“ sajtove.
- ▶ „Paralelni“ sajtovi (po pravilu) počivaju na platformi koja nije primarno predviđena za sajtove časopisa.
- ▶ To nije potrebno zato što pomenuta dva sistema nude kompletnu infrastrukturu za postavljanje i održavanje sajta časopisa.
- ▶ Održavanje „paralelnih“ sajtova podrazumeva (sasvim nepotrebne) dodatne troškove.
- ▶ Čak i ako se hosting za „paralelne“ sajtove ne plaća, postavljanje PDF verzija nepotrebno zatrpava server.



# „Dupli“ / „paralelni“ sajtovi

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- ▶ Časopis ima više starih sajtova i jedan aktuelni (i svi su aktivni) zato što je:
  - ▶ u nekom trenutku časopis prešao na CEON-ov Asistent, De Gruyter Open, OJS, a stara arhiva nije uvedena u ove sisteme,
  - ▶ novi urednik imao teškoća u komunikaciji sa licima koja su uređivala stari sajt, pa mu je bilo lakše da uspostavi novi,
  - ▶ stari sajt zastareo, pa je napravljen novi i kompletna arhiva je prebačena na novu platformu, a na stari sajt se zaboravilo...
  - ▶ Posetioци stare (a još uvek aktivne) verzije sajta ne moraju biti upoznati sa činjenicom da postoji novi sajt. Njih takva situacija zbunjuje i može stvoriti loš utisak o časopisu.



## „Dupli“ / „paralelni“ sajtovi

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- ▶ Ako iz bilo kojih razloga niste u mogućnosti da kompletnu arhivu časopisa prebacite na novu platformu, jasno naznačite na svakom od aktivnih sajtova da li je u pitanju aktuelni sajt časopisa ili nije, koji period pokriva i na kojoj adresi se mogu naći prethodne, odnosno naredne sveske.
- ▶ Sve suvišne stare sajtove ugasite!
- ▶ Proverite koja je adresa navedena u svim bazama podataka u kojima se časopis indeksira i, ako je potrebno, obavestite ih da se aktuelna adresa promenila.
- ▶ Prilikom prelaska na novu platformu ili promene domena sajta časopisa, obavestite o tome sve bivše i sadašnje saradnike.



## „Dupli“ / „paralelni“ sajtovi

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- ▶ Časopisi koji se indeksiraju u doiSerbia a objavljuju samo naučne priloge moći će da koriste doiSerbia kao sajt časopisa nakon postavljanja uređivačke politike i upustava za autore na doiSerbia.
- ▶ Ako se časopis indeksira u doiSerbia i iz bilo kojih razloga mora da ima „paralelni“ sajt, PDF verzije radova koji su dostupni u doiSerbia ne morate postavljati na „paralelni“ sajt – članke možete povezati sa PDF verzijama dostupnim na doiSerbia (to se ne odnosi na časopise koji koriste OJS, Asistent i sl.).
- ▶ Iz sadržaja časopisa na „paralelnom“ sajtu možete uspostaviti direktne veze ka stranama sa metapodacima na doiSerbia.





**Personalities in science: On the 90th birthday of prof. Dr. Pavle Radoman**

Ćurčić Božidar P.  
Archives of Biological Sciences, 2003 55(1-2):1-2  
Details Full text (PDF 137 KB) DOI:10.2298/ABS0302001C

**Rat liver tyrosine aminotransferase activity and induction by dexamethasone upon cadmium intoxication**

Dunderski Jadranka S., Predić Jelena, Čvoro Aleksandra, Matić Gordana M.  
Archives of Biological Sciences, 2003 55(1-2):3-7  
Details **Cross Ref cited by(3)** Full text (PDF 309 KB) DOI:10.2298/ABS0302003D

**Genetic characterization of 28 Serbian and Montenegrin neuroblastoma patients**

Dokić Dragana, Vujić Dragana S., Milović S., Đurišić S., Radivojević Danijela, Lalić Tanja,  
Archives of Biological Sciences, 2003 55(1-2):9-14  
DOI:10.2298/ABS0302009D

**Microscopic ground beetles (Trechini, Carabidae, Coleoptera) from west and southwest**

Ćurčić Božidar P., Mitić Bojan M.  
Archives of Biological Sciences, 2003 55(1-2):15-21  
Full text (PDF 409 KB) DOI:10.2298/ABS0302015C

**Spiders (Aranea: Arachnida) from Serbia**

Gojović G.A., Ćurčić Srećko B., Tomić Vladimir T.  
Archives of Biological Sciences, 2003 55(1-2):23-32  
Full text (PDF 584 KB) DOI:10.2298/ABS0302023C

**Species of longicorn beetles (Cerambycidae, Coleoptera) from Serbia, Montenegro, the**

Tomić Vladimir T., Mihajlova Branislava  
Archives of Biological Sciences, 2003 55(1-2):33-38  
DOI:10.2298/ABS0302033C



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Official journal of the  
Serbian Biological Society

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SERBIAN BIOLOGICAL SOCIETY

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## Table of Contents



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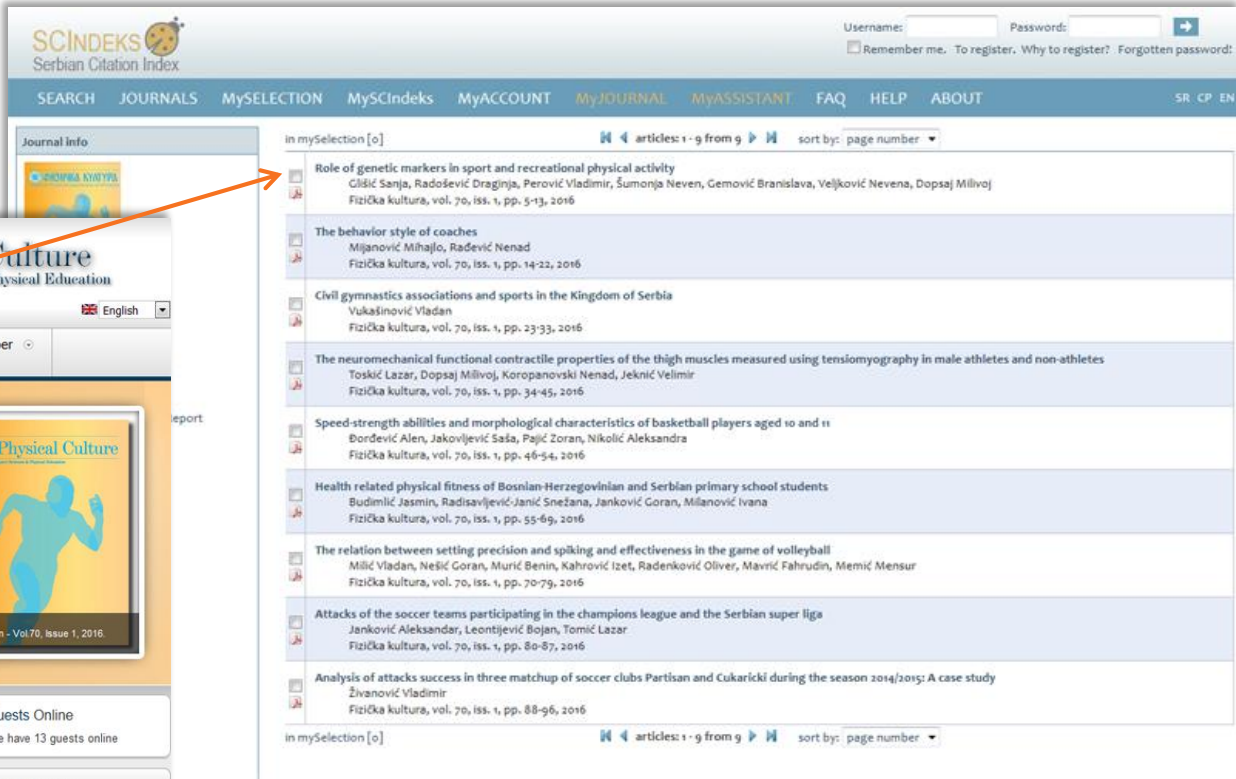
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# „Dupli“ / „paralelni“ sajtovi

- ▶ Ako je časopis dostupan u punom tekstu u Scindeksu (a naročito ako ima DOI preko Scindeksa), naslove iz sadržaja sveske na „paralelnom“ sajtu povežite sa stranama sa metapodacima u Scindeksu.



The screenshot shows the Scindeks website interface. At the top, there is a navigation bar with links for SEARCH, JOURNALS, MySELECTION, MySCindeks, MyACCOUNT, MyJOURNAL, MyASSISTANT, FAQ, HELP, and ABOUT. A search bar is visible on the right. Below the navigation bar, there is a 'Journal Info' section on the left and a list of articles in the 'mySelection' section on the right. The list of articles includes titles such as 'Role of genetic markers in sport and recreational physical activity', 'The behavior style of coaches', 'Civil gymnastics associations and sports in the Kingdom of Serbia', etc. An orange arrow points from the 'Current Issue' link in the 'Physical Culture' journal page to the first article in the list.

Scindeks Serbian Citation Index

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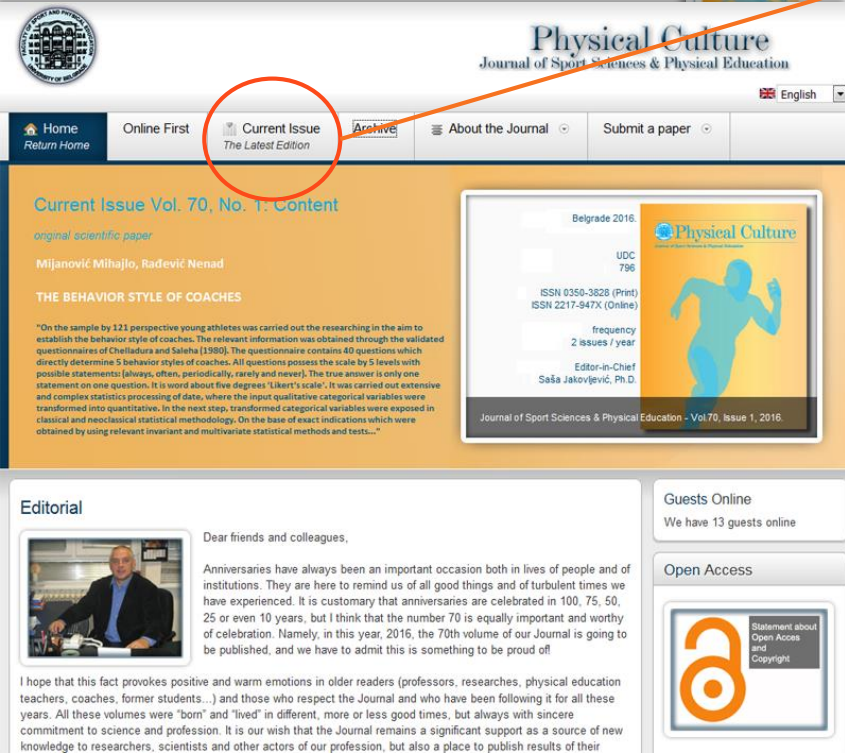
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Journal Info

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- Role of genetic markers in sport and recreational physical activity  
Čilić Sanja, Radošević Draginja, Perović Vladimir, Šumonja Neven, Cemović Branislava, Veljković Nevena, Dopsaj Milivoj  
Fizička kultura, vol. 70, iss. 1, pp. 5-13, 2016
- The behavior style of coaches  
Mijanović Mihajlo, Rađević Nenad  
Fizička kultura, vol. 70, iss. 1, pp. 14-23, 2016
- Civil gymnastics associations and sports in the Kingdom of Serbia  
Vukašinović Vladan  
Fizička kultura, vol. 70, iss. 1, pp. 23-33, 2016
- The neuromechanical functional contractile properties of the thigh muscles measured using tensiomyography in male athletes and non-athletes  
Toskić Lazar, Dopsaj Milivoj, Koropanoski Nenad, Jeknić Velimir  
Fizička kultura, vol. 70, iss. 1, pp. 34-45, 2016
- Speed-strength abilities and morphological characteristics of basketball players aged 10 and 11  
Borđević Alen, Jakovljević Saša, Pajić Zoran, Nikolić Aleksandra  
Fizička kultura, vol. 70, iss. 1, pp. 46-54, 2016
- Health related physical fitness of Bosnian-Herzegovinian and Serbian primary school students  
Budimlić Jasmin, Radisavljević-Janić Snežana, Janković Goran, Milanović Ivana  
Fizička kultura, vol. 70, iss. 1, pp. 55-69, 2016
- The relation between setting precision and spiking and effectiveness in the game of volleyball  
Milić Vladan, Nešić Goran, Murić Benin, Kahrović Izet, Radenković Oliver, Mavrić Fahrudin, Memić Mensur  
Fizička kultura, vol. 70, iss. 1, pp. 70-79, 2016
- Attacks of the soccer teams participating in the champions league and the Serbian super liga  
Janković Aleksandar, Leontijević Bojan, Tomić Lazar  
Fizička kultura, vol. 70, iss. 1, pp. 80-87, 2016
- Analysis of attacks success in three matchup of soccer clubs Partisan and Cukaricki during the season 2014/2015: A case study  
Živanović Vladimir  
Fizička kultura, vol. 70, iss. 1, pp. 88-96, 2016

in mySelection [0] articles: 1 - 9 from 9 sort by: page number



The screenshot shows the 'Physical Culture' journal website. The main navigation bar includes Home, Online First, Current Issue (circled in red), Archive, About the Journal, and Submit a paper. The 'Current Issue' section is highlighted, showing 'Current Issue Vol. 70, No. 1: Content'. Below this, there is a list of articles, including 'THE BEHAVIOR STYLE OF COACHES' by Mijanović Mihajlo and Rađević Nenad. The website also features an 'Editorial' section and a 'Guests Online' section.

Physical Culture  
Journal of Sport Sciences & Physical Education

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Current Issue Vol. 70, No. 1: Content  
original scientific paper

Mijanović Mihajlo, Rađević Nenad  
THE BEHAVIOR STYLE OF COACHES

"On the sample by 121 perspective young athletes was carried out the researching in the aim to establish the behavior style of coaches. The relevant information was obtained through the validated questionnaires of Chelladurai and Saleha [1989]. The questionnaire contains 40 questions which directly determine 5 behavior styles of coaches. All questions possess the scale by 5 levels with possible statements (always, often, periodically, rarely and never). The true answer is only one statement on one question. It is word about free degrees 'Likert's scale'. It was carried out extensive and complex statistics processing of data, where the input qualitative categorical variables were transformed into quantitative. In the next step, transformed categorical variables were exposed in classical and neoclassical statistical methodology. On the base of exact indications which were obtained by using relevant invariant and multivariate statistical methods and tests..."

Belgrade 2016.  
UDC 796  
ISSN 0350-3828 (Print)  
ISSN 2217-947X (Online)  
frequency 2 issues / year  
Editor-in-Chief Saša Jakovljević, Ph.D.  
Journal of Sport Sciences & Physical Education - Vol.70, Issue 1, 2016.

Guests Online  
We have 13 guests online

Open Access  
Statement about Open Access and Copyright

I hope that this fact provokes positive and warm emotions in older readers (professors, researches, physical education teachers, coaches, former students...) and those who respect the Journal and who have been following it for all these years. All these volumes were "born" and "lived" in different, more or less good times, but always with sincere commitment to science and profession. It is our wish that the Journal remains a significant support as a source of new knowledge to researchers, scientists and other actors of our profession, but also a place to publish results of their



SEARCH JOURNALS MySELECTION MySCIndeks MyACCOUNT MyJOURNAL MyASSISTANT FAQ HELP ABOUT SR CP EN

articles | from 7 | back to result list

article language: English  
Original Scientific Paper  
doi:10.5937/ratpov53-8412

**Ratarstvo i povrtarstvo**  
2016, vol. 53, iss. 1, pp. 1-8

**A rapid test for detection of tribenuron-methyl resistance in sunflower**

Dimitrijević Aleksandra<sup>a</sup>, Imerovski Ivana<sup>b</sup>, Miladinović Dragana<sup>a</sup>, Jocić Siniša<sup>a</sup>, Cvejić Sandra<sup>a</sup>, Malidžić Goran<sup>a</sup>, Kovačević Branislav<sup>b</sup>, Šurlan-Momirović Gordana<sup>a</sup>

<sup>a</sup> Crop and Vegetable Scientific Institute  
<sup>b</sup> Institute of Lowland Forestry and Environment, Novi Sad  
<sup>c</sup> University of Belgrade, Faculty of Agriculture

e-mail: dragana.miladinovic@ifvcns.na.ac.rs

**Project**  
Development of new varieties and production technology improvement of oil crops for different purposes (MESTD - 31025)

**Abstract**  
A rapid laboratory test for detection of tribenuron-methyl resistant sunflower genotypes was developed. Four homozygous and four heterozygous tribenuron-methyl resistant hybrids, as well as a susceptible one were grown on MS medium supplemented with different concentrations of herbicide (3.0 μM, 2.5 μM, 3.0 μM, 3.5 μM and 4.0 μM) and with pH either 7 or 8. The effect of medium pH and herbicide concentration on above-ground part and root mass of sunflower seedlings was observed. The test enabled visual discrimination between resistant and susceptible genotypes in 5 days, and discrimination between homozygous and heterozygous resistant genotypes in 12 days. All tested herbicide concentrations and morphological parameters were found to be suitable for discrimination of tribenuron-methyl susceptible genotypes. The best pH and herbicide concentration combination and morphological parameter for discrimination between homozygous and heterozygous resistant sunflower genotypes were 3.0 μM at pH 7 and root mass, respectively.

**Keywords**

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**A Rapid Test for Detection of Tribenuron-Methyl Resistance in Sunflower**

Aleksandra Dimitrijević<sup>1</sup>, Ivana Imerovski<sup>1</sup>, Dragana Miladinović<sup>1</sup>, Siniša Jocić<sup>1</sup>, Sandra Cvejić<sup>1</sup>, Goran Malidžić<sup>1</sup>, Branislav Kovačević<sup>2</sup>, Gordana Šurlan-Momirović<sup>3</sup>

<sup>1</sup>Institute of Field and Vegetable Crops, Makišina Cankar 30, 21000 Novi Sad, Serbia  
<sup>2</sup>Institute of Novi Sad, Institute of Lowland Forestry and Environment, Antona Čehova 13, 21000 Novi Sad, Serbia  
<sup>3</sup>University of Belgrade, Faculty of Agriculture, Nemanjina 6, 11080 Zemun, Serbia

**Summary:** A rapid laboratory test for detection of tribenuron-methyl resistant sunflower genotypes was developed. Four homozygous and four heterozygous tribenuron-methyl resistant hybrids, as well as a susceptible one were grown on MS medium supplemented with different concentrations of herbicide (2.0 μM, 2.5 μM, 3.0 μM, 3.5 μM and 4.0 μM) and with pH either 7 or 8. The effect of medium pH and herbicide concentration on above-ground part and root mass of sunflower seedlings was observed. The test enabled visual discrimination between resistant and susceptible genotypes in 5 days, and discrimination between homozygous and heterozygous resistant genotypes in 12 days. All tested herbicide concentrations and morphological parameters were found to be suitable for discrimination of tribenuron-methyl susceptible genotypes. The best pH and herbicide concentration combination and morphological parameter for discrimination between homozygous and heterozygous resistant sunflower genotypes were 3.0 μM at pH 7 and root mass, respectively.

**Key words:** bioassay, *Helianthus annuus* L., herbicides, selection, sulfonylureas, tolerance

**Introduction**

Weeds could significantly reduce sunflower (*Helianthus annuus* L.) yield. This reduction could range between 20% and 53% in comparison to weed-free conditions (Blaney & Zollinger 1997). Even though sunflower is an important oil crop worldwide, these are not controlled effectively in wet and large areas in many years with the application of AHAS sulfonylureas resistant sunflower of enzyme C2.2.1.6, also 4.1.3.15) have not just in such as tomato, Al-Khatib et al. (1999) were first to report a tribenuron-methyl (TBM) resistant sunflower genotype. Resistance was discovered in wild *H. annuus* population. These populations were used to develop the first registered SU resistant sunflower genetic stocks: female genetic stock (oilseed maintenance) SURES-1 (Reg. no. GS-28, PI 633749) and restorer genetic stock SURES-2 (Reg. no. GS-29, PI 633750) (Gilles & Al-Khatib 2004). Jocić et al. (2005) found that resistance to TBM in cultivated sunflower is controlled by one dominant gene. As development of herbicide resistant crops has become important in modern breeding, the need for

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**A rapid test for detection of tribenuron-methyl resistance in sunflower**  
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pp. 1-8; doi: 10.5937/ratpov53-8412

**ABSTRACT** **PDF**

The possibility of drought risk reduction in corn production  
Pajić Nemanja, Marković Todor  
pp. 9-14; doi: 10.5937/ratpov53-8345

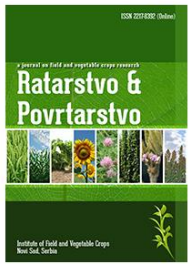
**ABSTRACT** **PDF**

The effect of PGPR strains on microbial abundance in maize rhizosphere in field conditions  
Mrkovački Nastasija, Đalović Ivica, Jošić Dragana, Bjelić Dragana, Brdar-Jokanović Milka  
pp. 15-19; doi: 10.5937/ratpov53-8224

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- ▶ Manje od 5% časopisa ima samo elektronsku verziju.
- ▶ Oko 50% časopisa ima tiraž 100–300 primeraka.
- ▶ Oko 70% časopisa koji troše više od polovine svog budžeta na štampu ima tiraž do 300 primeraka.
- ▶ Iako je skoro 50% časopisa već smanjilo tiraž, a oko 25% planira da to uradi, 70% časopisa ne planira da ukine štampano izdanje i pređe na elektronsko izdavaštvo. Razlozi: tradicija i prestiž, publika koja više voli da čita štampano izdanje, zarada od pretplate na štampano izdanje, verovanje da je samo štampano izdanje „relevantno“ i da svi „ozbiljni“ časopisi imaju štampano izdanje...



# Troškovi štampe – teme za razmišljanje

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Archives of Biological Sciences 2016 Volume 68, Issue 3, Pages: 473-481

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## **5 $\alpha$ -dihydrotestosterone treatment induces metabolic changes associated with polycystic ovary syndrome without interfering with hypothalamic leptin and glucocorticoid signaling**

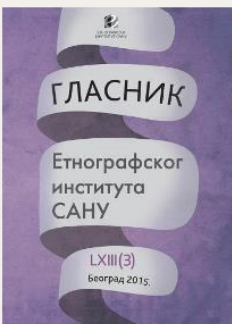
*Nikolić Marina, Veličković Nataša, Đorđević Ana, Bursać Biljana, Macut Đuro, Božić-Antić Ivana, Bjekić-Macut Jelica, Mabić Gordana, Vojnović-Milutinović Danijela*

Polycystic ovary syndrome (PCOS) is the most common endocrinopathy in women of reproductive age. It is a heterogeneous disorder, with hyperandrogenism, chronic anovulation and polycystic ovaries as basic characteristics, and associated metabolic syndrome features. Increased secretion of leptin and leptin resistance are common consequences of obesity. Leptin is a hormone with anorexigenic effects in the hypothalamus. Its function in the regulation of energy intake and consumption is antagonized by glucocorticoids. By modulating leptin signaling and inflammatory processes in the hypothalamus, glucocorticoids can contribute to the development of metabolic disturbances associated with central energy disbalance. The aim of the study was to examine the relationship between hypothalamic leptin, glucocorticoid and inflammatory signaling in the development of metabolic disturbances associated with PCOS. The study was conducted on an animal model of PCOS generated by a continual, 90-day treatment of female rats with 5 $\alpha$ -dihydrotestosterone (DHT). The model exhibited all key reproductive and metabolic features of the syndrome. mRNA and/or protein levels of the key components of hypothalamic glucocorticoid, leptin and inflammatory pathways, presumably contributing to energy disbalance in DHT-treated female rats, were measured. The results indicated that DHT treatment led to the development of hyperphagia and hyperleptinemia as metabolic features associated with PCOS. However, these metabolic disturbances could not be ascribed to changes in hypothalamic leptin, glucocorticoid or inflammatory signaling pathways in DHT-treated rats. [Projekat Ministarstva nauke Republike Srbije, br. III41009]

Keywords: DHT, hypothalamus, leptin, glucocorticoids, inflammation

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#### Abstract

The article presents an observation on the various traditional forms of cross-border seasonal labour mobility on the Balkans, both as agricultural works away from the home place, and as large-scale temporary craftsmen's migrations of builders, bakers, dairy workers, confectioners and so on. In countries like Albania, Bulgaria, Greece, Macedonia and Serbia, traditional cultural models of trans-border labour mobility that encompasses the majority of the male population of entire regions have existed for centuries. These migrant groups created the specific subculture of gurbet, which the men carried with them in the big city, at the same time altering the entire model of traditional culture in their home regions. The annual journeys of men from the various mountain parts of the Balkans "at work" and "for gain" (pečalba) in the course of the years developed specific features of the feast-ritual system and folklore in the villages of these regions. At the same time, the traditional Balkan gurbet is an important condition for mutual penetration between various cultures and peoples and for creating new cultural patterns and various multidimensional identities.

Key words: migrations, labour mobility, gender, gurbet, pečalbarstvo, Šopluk.

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podkulture gurbet, istovremeno menjajući čitave modele tradicionalne kulture u svojim matičnim zemljama. Godišnje migracije muškaraca iz različitih planinskih regija Balkana zbog posla i – zarade, tokom godina dobile su specifične karakteristike ritualnih i festvnih sistema u selima ovih regija. Istovremeno, tradicionalni balkanski gurbet postao je značajan činilac obostranog uticaja različitih kultura i naroda, stvarajući tako nove kulturne obrasce i različite više-dimenzijske identitete.

Ključne reči: migracije, radne migracije, pol, gurbet, pečalbarstvo, Šopluk.

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## Characterization of Cu<sub>10</sub>wt.%Al intermetallic coatings applied by the atmospheric plasma spraying process

----- Mrdak Mihailo R. 

Research and Development Center IMTEL Communications a.d., Belgrade

e-mail: dmrmdakmihailo@gmail.com

### Project

Development of covering and core production technology based on local raw materials for manufacturing of special coated electrodes designed for steel arc welding (MESTD - 34016)

### Abstract

The atmospheric plasma spray process is one of the procedures used for the deposition of coatings resistant to wear due to friction, erosion, cavitation and corrosion. In this paper, the APS process produced a Cu<sub>10</sub>wt.%Al intermetallic coating which is a reliable candidate for use in tribological environments because of a combination of low price and exceptional resistance to abrasion under different work conditions. The aim of this study was to investigate the mechanical properties and the structure of the Cu<sub>10</sub>wt.%Al intermetallic coating and develop an efficient method for repairing and improving light alloy resistance to wear. Many components of copper alloys tend to be degraded due to corrosive environment, friction, erosion and cavitation. Such components can be saved by surface engineering with the use of appropriate coatings on surface areas exposed to degradation. A typical microstructure of a coating for the APS process is lamellar, with micro pores, unmelted particles, inter-lamellar oxides and precipitates present in it. The mechanical properties of Cu<sub>10</sub>wt.%Al coatings were investigated by measuring the microhardness of coating layers using the HV<sub>0.3</sub> method while the bond strength was tested on a tensile machine. The morphologies of powder particles and the coating surfaces were analyzed on a scanning electron microscope (SEM). The analysis of the coating microstructure was carried out with the use of an optical microscope, and a share of micro pores was determined by analyzing the micrographs through an optical microscope (OM).

### Keywords

wearing; intermetallics; erosion; corrosion; coatings; cavitation; Al; abrasives

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Vladimir Džinović and Milica Marušić  
COOPERATION IN TEACHING: THE EFFECTS  
OF IMPLEMENTING THE “TREFOIL” MODEL  
*Abstract*

The starting point of the paper is the importance of developing the skill of cooperation and the undisputed significance of cooperative work for the outcomes of the learning process. We examine the effects of teacher training conducted in order to encourage the teachers to implement work methods and forms aimed at developing cooperation. Cooperation is operationalised through the following components: cooperative learning, exchange of opinions with the aim of accomplishing the goal and prosocial behaviour that includes understanding and empathy. The data were collected by repeated observation – before and after the conducted training. The sample included 72 classes realised by 20 teachers of one primary school. Using variance analysis, we determined the effects on two out of four cooperation indicators: *the teacher encourages group activities with the common goal and cooperative learning* and *the teacher encourages the students to talk and exchange opinions in order to achieve a certain goal together*. There were no effects on the indicators that referred to including the teacher in the exchange process and encouraging understanding and empathy in students. The lack of effects was ascribed to the way in which teachers perceive their role in relation to students, as well as to the limited number of the observed classes. Research findings point to the efficiency and usefulness of this way of improving teaching practice as well as to the changes that can be implemented to enhance the presented training programme.

*Key words:* cooperative learning, cooperation, effects of teacher professional development.

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**Cooperation in teaching: The effects of implementing the “trefoil” model** (Article)

Džinović, V. , Marušić, M.

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Abstract

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- ▶ U rezimeu na engleskom, uz ime autora navedite i afilijaciju na engleskom.

*Predrag Komatina*


Institute for Byzantine Studies of the SASA, Belgrade  
predrag.komatina@vi.sanu.ac.rs

ON THE SERBIAN-BULGARIAN BORDER  
IN THE 9<sup>TH</sup> AND THE 10<sup>TH</sup> CENTURIES

In the work *De administrando imperio* by the emperor Constantine VII Porphyrogenitus there is some information concerning the border between the Serbs and the Bulgarians in the 9<sup>th</sup> and the 10<sup>th</sup> centuries. Besides that he tells us of the Serbs and Bulgarians as *neighbors*, he also specifies that the border between them was at Ras. However, there were no clearly established borderlines between the political entities in the Early Middle Ages, and those political entities during that period functioned not on the basis of territorially organized states, but of ethnic communities, whose authority rested upon the people, not the territory. The functioning of the early medieval Bulgarian Khanate is one of the best examples for that. There are in the sources of the 7<sup>th</sup>–9<sup>th</sup> centuries several examples on how they treated the subjugated peoples, by imposing a tribute on them and even by resettling them from their homes. Exactly in the same way they persuaded their policy towards the Serbs. They attacked them several times in order to subdue them as a people, not their territory, and when they finally succeeded in the third decade of the 10<sup>th</sup> century, they devastated the country and took the Serbian population with them to Bulgaria, living their lands desolated. When, some time after the death of the Bulgarian ruler Symeon in 927, the Serbian prince Časlav escaped from Bulgaria and came to Serbia, he found the country depopulated, but he had neither to fight against the Bulgarian garrisons to win over the country, which testifies that there was no Bulgarian administration established in it. His primary task was only to collect the people from neighboring regions and to populate the country to rebuild it politically.

Since the political organization in the Early Middle Ages rested upon the people and not the territory, then the political organization of the Serbs at that time encompassed only the areas directly populated by them. Those areas were primarily

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Паримейник 1271 года: РНБ, Q.n.L13

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### On the history of study of the most ancient Old Russian parimejnik (Article)

Kuzovenkova, A

Department of Foreign Languages, Kazan State University of Architecture and Engineering, Zelenaya Str., 1, Kazan, Russian Federation

#### Abstract

This article discusses various data available in the scientific literature on the Zaxariinskij parimejnik written in 1271. This unique, ancient Russian manuscript has repeatedly attracted the attention of scholars interested in the peculiarities of Slavic and Greek parimejniks, as well as in the analysis of Boris and Gleb problems due to particular embedded paremias about certain events in Russian history. Nonetheless, a complex linguo-textological analysis of this earliest copy of the Old Russian parimejnik is still of relevance. In a separate section, questions surrounding the publication of this manuscript are investigated. © 2016, Springer Science+Business Media Dordrecht.

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Characterization of Cu10wt.%Al intermetallic coatings applied by the atmospheric plasma spraying process

Mrdak Mihailo R. 

Research and Development Center IMTEL Communications a.d., Belgrade

e-mail: drmrdakmihailo@gmail.com

Project

Development of covering and core production technology based on local raw materials for manufacturing of special coated electrodes designed for steel arc welding (MESTD - 34016)


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CHARACTERIZATION OF Cu10wt.%Al  
INTERMETALLIC COATINGS APPLIED  
BY THE ATMOSPHERIC PLASMA  
SPRAYING PROCESS

Mihailo R. Mrdak

Research and Development Center IMTEL Communications a.d.,  
Belgrade, Republic of Serbia

e-mail: drmrdakmihailo@gmail.com,

ORCID iD:  <http://orcid.org/0000-0003-3983-1605>

DOI: 10.5937/vojtehg64-10688

FIELD: Chemical Technology  
ARTICLE TYPE: Original Scientific Paper  
ARTICLE LANGUAGE: English<sup>1</sup>

Summary:

*The atmospheric plasma spray process is one of the procedures used for the deposition of coatings resistant to wear due to friction, erosion, cavitation and corrosion. In this paper, the APS process produced a Cu10wt.%Al intermetallic coating which is a reliable*

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THERMAL SCIENCE

Volume: 19 Issue: 4 Pages: 1331-1335

DOI: 10.2298/TSCI1504331L

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### Abstract

Potential applications of nanofibers as a new-generation of material will be realized if suitable nanofiber yarns become available. Electrospinning has been widely accepted as a feasible technique for the fabrication of continuous nanofiber yarns. However its low output limited its industrial applications. This paper presents a new processing approach to fabrication of fascinated nanofiber yarns which possess excellent properties of nanofibers while enhancing its mechanical strength by the core yarn.

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**Author Keywords:** [blown bubble spinning](#); [bubble electrospinning](#); [nanofiber yarn](#)

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12	Numerical Prediction of Laminar Nanofluid Flow in Rectangular Microchannel Heat Sink	Abubakar, S.B., Che Sidik, N.A.	2015	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	7, pp. 29-38	1
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15	[No title available]	Hahn, J., Dandridge, T., Seshadri, P., Marconnet, A., Reid, T.	2015	Integrating Design Methodology, Thermal Sciences, and Customer Needs to Address Challenges in the Hair Care Industry		1
16	The energy policy of Greece	Kalapmalikas, G.N., Pilavachi, A.P.	2015	Thermal Science	10 (3), pp. 7-18	2
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19	Numerical Modeling of Regenerative Cooling System for Large Expansion Ratio Rocket Engines	Rajagopal, M.	2015	Journal of Thermal Science and Engineering Applications J. Thermal Sci. Eng. Appl	7 (1)	1
20	A condition monitoring for collapsing bubble mechanism for sonoluminescence and sonochemistry	Alhelfi, A., Sunden, B.	2015	Journal of Thermal Science and Engineering Applications	7 (2), pp. 021014	1

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## Citirani rad?

1	Building envelope influence on the annual energy performance in office buildings	Harmati, N.L., Folić, R.L., Magyar, Z.F., Dražić, J.L., Kurtović-Folić, N.L.	2016	Thermal Science		0
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**SUMMARY** Policy documents

**Title** Geopolitics of climate change: A review  
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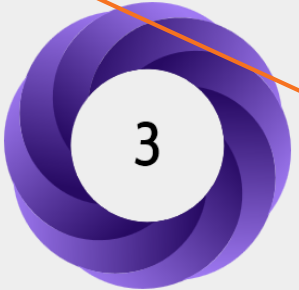
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3 Attitudes and knowledge of nurses on organ legacy and transplantation Serbian Archives for the Whole Medicine

9 Mar 16 06:33

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Glasnik Etnografskog Instituta SANU



Maintaining ethnic identity: Family patron's day among the Serbs in Budapest and surrounding area  
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