REZULTATI NAUČNOISTRAŽIVAČKOG RADA INSTITUTA ZA RUDARSTVO I METALURGIJU U BORU ZA 2011. GODINU

SPISAK OSTVARENIH REZULTATA:

MONOGRAFIJE MEĐUNARODNOG ZNAČAJA (M10)

Monografska studija/Poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja (M14)

1. R. Marković, J. Stevanović, Z. Stevanović, Lj. Obradović, M. Bugarin, R. Jonović, Removal the Harmful and Hazardous Materials from the Mine Waste Waters Using the Local Available Waste Materials and Different Industrial By-Products, Chapter 14 In: Hazardous Materials: Types, Risks and Control, ISBN 978-1-61324-425-8, pp. 409-421, EDITOR: SATINDER KAOR BRAR,© 2011 NOVA SCIENCE PUBLISHERS, INC.

RADOVI OBJAVLJENI U NAUČNIM ČASOPISIMA MEĐUNARODNOG ZNAČAJA (M20)

Rad u vrhunskom međunarodnom časopisu (M21)

1. R.Marković, J.Stevanović, Z.Stevanović, M.Bugarin, D.Nedeljković, A.Grujić, J.Stajić-Trošić, Using the Low-Cost Waste Materials for Heavy Metals Removal from the Mine Wastewater, Materials Transactions, Vol. 52, 10 (2011) 1849 – 1852.
2. D.Brodić, D.R.Milivojević, Z.N.Milivojević, An Approach to a Comprehensive Test Framework for Analysis and Evaluation of Text Line Segmentation Algorithms, Sensors, 2011; 11 (9), pp. 8782-8812.

Rad u međunarodnom časopisu (M23)

1. D.Živković, D.Minić, D.Manasijević, N.Talijan, I.Katayama, A.Kostov, Thermodynamic analysis and characterization of Bi-Cu-Sn alloys as advanced lead-free solder materials for high temperature application, Journal of Materials Science: Materials in Electronics, 22 (8) (2011) 1130-1135.
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6. M.Ignjatović, D.Milanović, S.Magdalinović: Effect of liquid surface tension on minimum diameter of the grains that could be treated during the static gravity concentration TTEM – Technics, Technologies, Education, Management, Vol.6, 2 (2011) 478-481.
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ZBORNICI MEĐUNARODNIH NAUČNIH SKUPOVA (M30)

Saopštenje sa međunarodnog skupa štampano u celini (M33)

1. D.Živković, L.Gomidželović, N.Talijan, V.Ćosović, A.Kostov, N. Štrbac, R.Đalović, E.Požega, Characterization of gallium-based alloys with low gold content, 11th International Foundrymen Conference Foundry Industry-Significance and Future Challenges, Proceedings Book, Opatija, April 28-29, 2011, pp. 416-422.
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TEHNIČKA I RAZVOJNA REŠENJA (M80)

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2. TR33023: Razvoj tehnologija flotacijske prerade rude bakra i plemenitih metala radi postizanja boljih tehnoloških rezultata, rukovodilac: Dragan Milanović, učesnici iz IRM-a: J.Petrović, B.Drobnjaković, B.Čađenović, B.Blagojević, V.Marjanović, V.Ljubojev, D.Urošević, M.Ignjatović, S.Jakovljević, S.Magdalinović, S.Stanković.
3. TR33037: Razvoj i primena distribuiranog sistema nadzora i upravljanja potrošnjom električne energije kod velikih potrošača, rukovodilac: Dragan Milivojević, učesnici iz IRM-a: V.Tasić, M.Pavlov.
4. TR33038: Usavršavanje tehnologije eksploatacije i prerade rude bakra sa monitoringom životne i radne sredine u RTB Bor-grupa, rukovodilac: N.Vušović, učesnici iz IRM-a: J.Petrović, V.Marjanović, D.Kržanović, Z.Vaduvesković, S.Stanković, T.Apostolovski-Trujić.

5. TR34004: Razvoj ekoloških i energetskih efikasnijih tehnologija za proizvodnju obojenih i plemenitih metala kombinacijom bioluženja solventne ekstrakcije i elektrolitičke rafinacije, rukovodilac: Vladimir Cvetkovski, učesnici iz IRM-a: B.Čađenović, B.Pešovski, V.Conić, D.Stanković, D.Simonović, Z.Stanojević-Šimšić, Z.Vaduvesković, M.Ćirković, S.Dimitrijević, S.Dragulović.
6. TR34005: Razvoj naprednih materijala i tehnologija za multifunkcionalnu primenu zasnovanih na ekološkom znanju, rukovodilac: Ana Kostov, učesnici iz IRM-a: Lj.Todorović, A.Milosavljević, D.Milivojević, E.Požega, L.Gomidželović, M.Pavlov, R.Todorović.
7. TR34023: Razvoj tehnoloških procesa prerade nestandardnih koncentrata bakra u cilju optimizacije emisije zagađujućih materija, rukovodilac: Nada Štrbac, učesnici iz IRM-a: A.Ivanović.
8. TR34024: Razvoj tehnologija za reciklažu plemenitih, retkih i pratećih metala iz čvrstog otpada Srbije do visokokvalitetnih proizvoda, rukovodilac: Vlastimir Trujić, učesnici iz IRM-a: Lj.Mladenović, Lj.Mišić, B.Trumić, B.Madić, V.Conić, D.Božić, Z.Stanojević-Šimšić, Z.Ljubomirović, M.Gorgijevski, M.Šteharnik, R.Marković, S.Ivanović, S.Dimitrijević, S.Dragulović.
9. TR34029: Razvoj tehnologije proizvodnje Pd katalizatora-hvatača za smanjenje gubitaka platine u visoko temepraturnim procesima katalize, rukovodilac: Biserka Trumić, učesnici iz IRM-a: Lj.Mladenović, Lj.Mišić, A.Ivanović, V.Krstić, V.Trujić, G.Slavković, Dana Stanković, Draško Stanković.
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12. TR37001: Uticaj rudarskog otpada iz RTB-a Bor na zagađenje vodotokova sa predlogom mera i postupaka za smanjenje štetnog dejstva na životnu sredinu, rukovodilac: Mile Bugarin, učesnici iz IRM-a: Lj.Avramović, Lj.Obradović, V.Marinković, V.Gardić, G.Slavković, Z.Stevanović, R.Marković, R.Rajković, R.Jonović, R.Kovačević, R.Lekovski.
13. OI172037: Savremeni višekomponentni metalni sistemi i nanostrukturni materijali sa različitim funkcionalnim svojstvima, rukovodilac: Dragana Živković, učesnici iz IRM-a: A.Kostov. L.Gomidželović.
14. III41028: Integralna studija identifikacije regionalnih genetskih faktora rizika i faktora rizika životne sredine za masovne nezarazne bolesti humane populacije u Srbiji, rukovodilac: Dragan Alavantić, učesnici iz IRM-a: N.Milošević.
15. III42008: Unapređenje energetskih karakteristika i kvaliteta unutrašnjeg prostora u zgradama obrazovnih ustanova u Srbiji sa uticajem na zdravlje, rukovodilac: Žarko Stevanović, učesnici iz IRM-a: V.Tasić, N.Milošević, R.Kovačević.
16. III46010: Razvoj novih inkapsulacionih i enzimskih tehnologija za proizvodnju biokatalizatora i biološki aktivnih komponenata hrane u cilju povećanja njene konkurentnosti, kvaliteta i bezbednosti, rukovodilac: Branko Bugarski, učesnici iz IRM-a: D.Božić, M.Gorgievski, M.Šteharnik, N.Petrović.

Učešće na ostalim projektima

1. Romania-Serbia IPA Cross-Border Programme: "Cross-border network for advanced training and research in environemental protection (ROS-NET)", 08.02.2011.
2. Bulgaria-Serbia IPA Cross-Border Programme: "Creation of a database of pollutants from industrial waste in a transboundary aspect and a logical framework for problem solving (IWADATA)", 04.10.2011.

3. Bulgaria-Serbia IPA Cross-Border Programme, Broj projekta: 2007CB16IPO006-2009-1-24; Broj Ugovora: RD-02-29-385/11.11.11.; Naziv: Selenium as an Essential Natural Microelement for the Human Health Protection, Acronim: SENMHP, 2011-2012; Vodeći partner: IRM Bor; Partner iz Bugarske: Privredna komora Vidin; Rukovodilac projekta: V.Trujić, učesnici iz IRM-a: Z.Stevanović, R.Jonović, M.Bugarin, R.Marković, Lj.Avramović, Lj.Obradović, N.Petrović, R.Kovačević, G.Slavković
4. Dopunski rudarski projekat obustave radova u rudnim telima Tilva Roš i P2a, Tehnoekonomska opravdanost, januar 2011.
5. Elaborata o rezervama ležišta krečnjaka Zagrađe Kop5 i Kop2, mart 2011.
6. Elaborat o rezervama ležišta Južni Revir Majdanpek, jun 2011.
7. Dopunski rudarski projekat otkopavanja rude bakra iz ležišta „Cerovo cementacija – Kraku Bugaresku“ za godišnji kapacitet 2.5 x 10^6 tona godišnje –tehnoekonomska opravdanost, jun 2011.
8. Dopunski rudarski projekat otkopavanja i prerade rude bakra u ležištu „Veliki Krivelj“ za kapacitet 10.6 x 10^6 tona vlažne rude godišnje, Tehnoekonomska opravdanost, jul 2011.
9. Studija izvodljivosti eksploatacije rude bakra Južni Revir Majdanpek, septembar 2011.
10. Dopunski rudarski projekat transportnog sistema za povezivanje primarne drobilice iz sistema za rudničku otkrivku sa odlagačem za primarno izdrobljenu rudu na p.k. "VeIiki Krivelj", decembar 2011.
11. Elaborat o rezervama ležišta kvarcnog peska Bošnjane Popovac, decembar 2011.

ZBIRNI OSTVARENI KVANTITATIVNI REZULTATI ZA 2011:

M10 = 4	M60 = 7,3
M14 = 1 x 4 = 4	M61 = 1 x 1,5 = 1,5
M20 = 37	M63 = 10 x 0,5 = 5
M21 = 2 x 8 = 16	M64 = 4 x 0,2 = 0,8
M23 = 7 x 3 = 21	M70 = 3
M30 = 96,5	M72 = 1 x 3 = 3
M33 = 94 x 1 = 94	M80 = 46
M34 = 5 x 0,5 = 2,5	M82 = 5 x 6 = 30
M40 = 11,5	M83 = 4 x 4 = 16
M42 = 2 x 5 = 10	
M45 = 1 x 1,5 = 1,5	**Muk = 300,3**
M50 = 95	
M51 = 35 x 2 = 70	**Citiranost: 25**
M52 = 14 x 1,5 = 21	**Broj projekata prema Ministarstvu: 16**
M53 = 4 x 1 = 4	**Broj ostalih projekata: 11**