

Na osnovu čl. 30. stav 3. Zakona o visokom obrazovanju, čl. 40. Statuta TMF i čl. 39. Pravilnika o doktorskim studijama TMF, na sednici Nastavno-naučnog veća Tehnološko-metalurškog fakulteta od 09.04.2015. godine, doneta je

O D L U K A

o prihvatanju Referata o oceni doktorske disertacije

Prihvata se Referat Komisije u sastavu: dr Vesna Radojević, vanredni profesor Univerziteta u Beogradu, Tehnološko-metalurški fakultet, dr Petar Uskoković, redovni profesor Univerziteta u Beogradu, Tehnološko-metalurški fakultet, dr Đorđe Janačković, redovni profesor Univerziteta u Beogradu, Tehnološko-metalurški fakultet, dr Vaso Bojanić, redovni profesor Univerziteta u Banja Luci, Poljoprivredni fakultet, dr Vladan Ćosović, viši naučni saradnik Univerziteta u Beogradu, Naučna ustanova Institut za hemiju, tehnologiju i metalurgiju, o pregledu i oceni urađene doktorske disertacije pod nazivom: „SINTEZA I KARAKTERIZACIJA ELEKTROPROVODNIH KOMPOZITNIH MATERIJALA NA BAZI BIORAZGRADIVIH POLIMERA I METALNIH PRAHOVA“ koju je podneo **MIROSLAV PAVLOVIĆ**, dipl. inž., i upućuje se na saglasnost Veću naučnih oblasti tehničkih nauka Univerziteta u Beogradu.

Veće naučnih oblasti tehničkih nauka Univerziteta u Beogradu dalo je saglasnost na predlog teme doktorske disertacije **Miroslava Pavlovića** pod nazivom „SINTEZA I KARAKTERIZACIJA ELEKTROPROVODNIH KOMPOZITNIH MATERIJALA NA BAZI BIORAZGRADIVIH POLIMERA I METALNIH PRAHOVA“ Odlukom 02 broj: 61206-2650/2014 od 09.06.2014. godine.

Verifikacija naučnih doprinosa:

Kategorija M22

1. **Pavlović, M.M.**, Ćosović, V., Pavlović, M.G., Talijan, N., Bojanić, V.: Electrical Conductivity of Lignocellulose Composites Loaded with Electrodeposited Copper Powders, *Int. J. Electrochem. Sci.*, Vol 6, 2011, pp. 3812-3829. (IF=3.729) ISSN: 1452-3981
2. Pavlović, Lj. J., Pavlović, M. G., **Pavlović, M. M.**, Nikolić, N. D., Tomić, M. V.: The Effect of Periodically Changing Regimes on the Electrodeposition of Silver Powder *Int. J. Electrochem. Sci.*, Vol 6, 2011, pp. 6741-6750 (IF=3.729) ISSN: 1452-3981
3. **Pavlović, M.M.**, Ćosović, V., Pavlović, M.G., Bojanić, V., Nikolić, N.D., Aleksic, R.: Electrical Conductivity of Lignocellulose Composites Loaded with Electrodeposited Copper Powders Part II. Influence of Particle Size on Percolation Threshold, *Int. J. Electrochem. Sci.*, Vol. 7, 2012, pp. 8883-8893. (IF=3.729) ISSN: 1452-3981
4. **Pavlović, M.M.**, Pavlović, M.G., Panić, V., Talijan, N., Vasiljević, Lj., Tomić, M.V.: Electrical Conductivity of Lignocellulose Composites Loaded with Electrodeposited Copper Powders Part III. Influence of Particle Morphology on Appearance of Electrical Conductive Layers, *Int. J. Electrochem. Sci.*, Vol 7, 2012, pp. 8894-8904. (IF=3.729) ISSN: 1452-3981

Kategorija M23

1. Ćosović, V.R., **Pavlović, M.M.**, Ćosović, A.R., Vulić, P.J., Premović, M.M., Živković, D.T., Talijan, N.M.: Microstructure Refinement and Physical Properties of Ag-SnO₂ Based Contact

Materials Prepared by High-Energy Ball Milling, *Science of Sintering*, Vol 45, No 2, 2013, pp. 173-180. (IF=0.278) ISSN: 0350-820X

2. **Pavlović, M.M.**, Pavlović, M.G., Ćosović, V., Bojanić, V., Nikolić, N.D., Aleksić, R., Influence of Electrolytic Copper Powder Particle Morphology on Electrical Conductivity of Lignocellulose Composites and Formation of Conductive Pathways, *Int. J. Electrochem. Sci.*, Vol 9, 2014, pp. 8355-8366 (IF=1.956) 1452-3981

Kategorija M33

1. **Pavlović, M.M.**, Ćosović, V., Bojanić, V., Talijan, N., Pavlović, M.G.: Elektroprovodni kompozitni materijali na bazi lignoceluloze i bakarnog praha, *Proceedings CD of the II International Congress "Engineering, Ecology and Materials in the Processing Industry*, March 2011, Jahorina, Bosnia & Herzegovina, pp. 1270-1275
2. Pavlović, M.G., Talijan, N., **Pavlović, M.M.**, Ćosović, V., Bojanić, V., Tomić, M.V.: Strukturne karakteristike kompozitnih materijala lignoceluloze i bakra, *Proceedings CD of the XIII YUCORR –Exchanging Experiences in the Fields of Corrosion, Materials and Environmental Protection, International Conference*, April 05.-08., 2011., Tara, Serbia, pp. 265-272.
3. **Pavlović, M.M.**, Ćosović, V., Talijan, N., Živković, D., Pavlović, M.G., Aleksić, R.: Electrical Conductivity of Lignocellulose Composites Loaded With Chemically Deposited Silver Powders, *Proceedings of the 44th International October Conference on Mining and Metallurgy*, October 2012, Bor, Serbia, pp. 461-464.
4. **Pavlović, M.M.**, Ćosović, V., Talijan, N., Pavlović, M.G., Bojanić, V.: Struktura i svojstva elektroprovodnih kompozitnih materijala na bazi lignoceluloze i bakarnog praha, *Proceedings CD of the XIV YUCORR –Exchanging Experiences in the Fields of Corrosion, Materials and Environmental Protection*, April 17.-20., 2012., Tara, Serbia, pp.169-176.
5. **Pavlović, M.M.**, Šašić, R., Stajić-Trošić, J., Bojanić, V., Stevanović, J.: Electrical conductivity of lignocellulose composites loaded with metal powders, *Proceedings CD of the 15. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection*, September 17-20, 2013., Tara, Serbia, pp. 122-127.
6. **Pavlović, M.M.**, Ćosović, V., Talijan, N., Gligotić, M., Pavlović, M.G.: Influence of electrolytic copper powder particle morphology on electrical conductivity of lignocellulose composites, *Proceedings CD of the 15. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection*, September 17-20, 2013., Tara, Serbia, pp. 312-319.
7. Ćosović, V., **Pavlović, M.M.**, Ćosović, A.R., Živković, D.T., Talijan, N.M., Microstructure and physical properties of Ag-SnO₂ based contact materials prepared using high-energy ball milling, *Proceedings CD of the III International Congress, Engineering, Environment and Materials in Processing Industry*, March 4-6, 2013., Jahorina, Bosnia and Herzegovina, pp. 934 -939.
8. **Pavlović, M.M.**, Gligorić, M., Pavlović, M.G., Ćosović, V., Talijan, N., Tomić, M.V.: Comparison of electrical conductivity of lignocellulose composites loaded with silver and copper powders, *Proceedings CD of the III International Congress, Engineering, Environment and Materials in Processing Industry*, March 4-6, 2013., Jahorina, Bosnia and Herzegovina, pp. 1087 -1094.
9. **Pavlović, M.M.**, Ćosović, V., Talijan, N., Gligorić, M., Pavlović, M.G.: Influence of particle morphology on electrical conductivity of lignocellulose composites loaded with electrodeposited copper powders, *Proceedings CD of the III International Congress*,

Engineering, Environment and Materials in Processing Industry, March 4-6, 2013., Jahorina, Bosnia and Herzegovina, pp. 1095 -1103.

10. Ćosović, V., Ćosović, A.R., **Pavlović, M.M.**, Kostov, A., Živković, D.T., Talijan, N.M.: Nanocomposite Ag-SnO₂ electrical contacts prepared by template method, *Proceedings of the 1st Metallurgical & Materials Engineering Congress of South-East Europe*, May 23-25, 2013., Belgrade, Serbia, pp.267-273.
11. **Pavlović, M.M.**, Pavlović, M.G., Aleksić, R., Nikolić, N., Stajić-Trošić, J. Electrical conductivity of the copper filled lignocellulose composites and formation of the conductive pathways, *16. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings*, CD, ISBN 978-86-82343-21-9, May 27-30, 2014., Tara, Serbia, pp. 52-58.
12. **Pavlović, M.M.**, Pavlović M.M., Ćosović, V., Gligorić, M., Bojanić, V., Influence of filler morphology on electrical conductivity of biodegradable lignocellulose composites, *16. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings*, CD, ISBN 978-86-82343-21-9, May 27-30, 2014., Tara, Serbia, pp. 284-293.
13. **Pavlović, M.M.**, Ćosović, V., Gligorić, M., Bojanić, V., Pavlović, M.G., Formation of the conductive pathways and electrical conductivity of the copper filled lignocellulose composites, *6th international Scientific conference on defensive technologies OTEH 2014, Proceedings*, CD, ISBN 978-86-81123-71-3, Belgrade, 09-10 October 2014, pp. 769-774.
14. V., Bojanić, **Pavlović, M.M.**, Pavlović, M.G., Influence of particle morphology on electrical conductivity in lignocellulose and copper powder composites, *7th International congress „Contemporary materials 2014“*, *Proceedings*, 21-22. December 2014, Banja Luka, Republic of Srpska, Bosnia and Herzegovina, pp. 75-84.

Kategorija M34

1. Pavlović, M.G., **Pavlović, M.M.**, Vasiljević, Lj., Ćosović, V., Talijan, N.: Electrical Conductivity of Biodegradable Composites Based on Electrodeposited Cu Powders and Lignocellulose, *CD of Abstracts of the 63rd Annual Meeting of the International Society of Electrochemistry*, Prague, Czech Republic, 2012. pp. 08-024.
2. **Pavlović, M.M.**, Pavlović, M.G., Ćosović, V., Talijan, N., Aleksić, R.: Influence of Particle Size on Electrical Conductivity of Biodegradable Copper and Lignocellulose Based Composite, *Book of Abstracts of the 22nd Congress of Chemists and Technologists of Macedonia, EL-5*, September, 2012, Ohrid, Macedonia, pp.152.
3. Bojanić, V., **Pavlović, M.M.**, Pavlović, M.G.: Influence of particle morphology on electrical conductivity in lignocellulose and copper powder composites, *Book of Abstracts of the Sixts International Scientific Conference-Contemporary Materials 2013*, 2013, Banja Luka, Bosnia and Herzegovina, pp.77.

Kategorija M51

1. **Pavlović, M.M.**, Gligorić, M., Ćosović, V., Bojanić, V., Tomić, M., Pavlović, M.G., Electrical conductivity of the electrodeposited copper powder filled lignocellulose composites, *Contemporary materials*, Vol V-2, 2014, pp. 203-211. ISSN: 1986-8677

Kategorija M52

1. **Pavlović, M.M.,** Ćosović, V., Talijan, N., Pavlović, M.G., Bojanić, V.: Struktura i svojstva elektroprovodnih kompozitanih materijala na bazi lignoceluloze i bakarnog praha, *Bakar*, Vol 37, No 1, 2012, pp. 1-10. ISSN: 0351-0212

Izveštaj o oceni doktorske disertacije dostavlja se na uvid javnosti, a po isteku roka od 30 dana, na saglasnost Veću naučnih oblasti tehničkih nauka Univerziteta u Beogradu.

Odluku dostaviti: Veću naučnih oblasti Univerziteta, doktorandu, Službi za nastavno-studentske poslove, Biblioteci i Arhivi fakulteta.

D E K A N

Prof. dr Đorđe Janačković