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Viši naučni saradnik



Profesionalno iskustvo Oblasti interesovanja Projekti Izabrane publikacije

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pošta:

Obrazovanje 1984 Diplomirani inženjer tehnologije, Tehnološko metalurški fakultet
: 2001 Magistar tehničkih nauka, Tehnološki-metalurški fakultet
2008 Doktor tehničkih nauka, Tehnološko-metalurški fakultet

Zvanja: 2005 Istraživač saradnik
2009 Naučni saradnik
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Članstva u Srpsko-hemijsko društvo
društvima: Društvo za unapređenje zavarivanja Srbije
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Profesionalno iskustvo: 1984 – 1986 IMT Beograd
1986 – 2005 VTI, Beograd
2005 – 2007 IHIS, Zemun
2007 – 2013 Institut GOŠA, Beograd
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Nagrade i priznanja:

Oblasti interesovanja: Korozija metala i legura i njihovih zavarenih spojeva. Zaštita od korozije metalnim, nemetalnim neorganskim i organskim prevlakama i inhibitorima korozije.

Stručne veštine:

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Znanje jezika: Engleski jezik, ruski jezik

Najznačajniji Osnovna istraživanja:

i projekti: 2005 - 2010 Elektrohemijske karakteristike oksidnih i polimernih prevlaka na modifikovanim površinama metala, Br. Projekta 142061.

2011 – 2015 Sinteza, razvoj tehnologija dobijanja i primena nanostrukturnih multifunkcionalnih materijala definisanih svojstava. Br. Projekta III 45019, Podprojekat 2: Nove elektrohemijske metode za dobijanje polimernih, keramičkih i metalnih materijala.

Primenjena istraživanja:

2008 – 2010 Osvajanje novih tehnologija reparaturnog zavarivanja za interventne remone termoenergetskih postrojenja, Br. Projekta TR 190023.

2011 – 2015 Istraživanje i optimizacija tehnoloških i funkcionalnih performansi ventilacionog mlina termoelektrane Kostolac B, Br. Projekta TR 34028.

**Izabrane Monografije, poglavlja u knjigama:
publikacije:**

1. S. Polić-Radovanović, S. Ristić, **B. Jegdić**, Z. Nikolić, Metodološki i tehnički aspekti primene novih tehnika u zaštiti kulturne baštine, Institut Goša i Centralni institut za konzervaciju, Beograd 2010.

Publikovani radovi:

1. **B.V. Jegdić**, Lj.S. Živković, J.P. Popić, J. Rogan, J.B. Bajat, V.B. Mišković-Stanković, Corrosion stability of cerium doped cataphoretic epoxy coatings on AA6060 alloy, *Materials and Corrosion (Werkstoffe and Korrosion)* (2016) DOI: 10.1002/maco.201608827.
2. Biljana Bobić, Jelena Bajat, Ilija **B. Bobić**, 2. **Bore Jegdić**, Corrosion influence on surface appearance and microstructure of compo casted ZA27/SiC_p composites in sodium chloride solution, *Transactions of Nonferrous Metals Society of China*, (2016) (accepted for publication).
3. T. Radetić, M. Popović, **B. Jegdić**, E. Romhanji, Influence of annealing temperature on sensitisation behaviour and corrosion properties of an Al-6.8 wt.% Mg alloy, *Materials and Corrosion (Werkstoffe and Korrosion)* (2016) (DOI: 10.1002/maco.201508709).
4. Lj.S. Živković, J.B. Bajat, J.P. Popić, **B.V. Jegdić**, S. Stevanović, V.B. Mišković-Stanković, "Protective properties of cataphoretic epoxy coating on aluminum alloy AA6060 modified with electrodeposited Ce-based coatings: effect of post-treatment", *Prog. Org. Coat.* 79 (2015) 43-52.
1. Lj.S. Živković, J.P. Popić, **B.V. Jegdić**, Z. Dohčević-Mitrović, J.B. Bajat, V.B. Mišković-Stanković, Corrosion study of ceria coatings on AA6060 aluminum alloy obtained by cathodic electrodeposition: Effect of deposition potential, *Surf. Coat. Tech.* 240 (2014) 327-335.
2. Ljiljana S. Živković, **Bore V. Jegdić**, Jovan P. Popić, Jelena B. Bajat, Vesna B. Mišković-Stanković, The influence of Ce-based coatings as pretreatments on corrosion stability of top powder polyester coating on AA6060, *Prog. Org. Coat.* 76 (2013) 1387-1395.
3. Biljana Bobić, Jelena Bajat, Zagorka Aćimović-Pavlović, Ilija Bobić, **Bore Jegdić**, Corrosion behaviour of thixoformed and heat-treated ZA27 alloys in NaCl solution, *Trans. Nonferrous Met. Soc. China*, 23 (2013) 931-941.
4. J.P. Popić, **B.V. Jegdić**, J.B. Bajat, Đ. Veljović, S.I. Stevanović, V.B. Mišković-Stanković, The effect of deposition temperature on the surface coverage and morphology iron-phosphate coatings on low carbon steel, *Appl. Surf. Sci.* 257 (2011) 10855-10862.
5. **B.V. Jegdić**, J.B. Bajat, J.P. Popić, V.B. Mišković-Stanković, Corrosion stability of polyester coatings on steel pretreated with different iron-phosphate coatings, *Prog. Org. Coat.* 70 (2011) 127-133.
6. **B.V. Jegdić**, J.B. Bajat, J.P. Popić, S.I. Stevanović, V.B. Mišković-Stanković, The EIS investigation of powder polyester coatings on phosphated low carbon steel: The effect of NaNO₂ in the phosphating bath, *Corr. Sci.* 53 (2011) 2872-2880.
7. **B. Jegdić**, D. M. Dražić, J. P. Popić, Open circuit potentials of metallic chromium and 304 stainless steel in aqueous sulphuric acid solution and the influence of chloride ions on them, *Corr. Sci.* 50 (2008) 1235-1244.
8. **Bore V. Jegdić**, Biljana M. Bobić, Miloš K. Pavlović, Ana B. Alil, Slaviša S. Putić, Stress corrosion cracking resistance of aluminium alloy 7000 series after two-step aging, *Chemical Industry & Chemical Engineering Quarterly (CICEQ)*, 21 (2015) 261-268.
9. J. P. Popić, **B.V. Jegdić**, J. B. Bajat, M. Mitrić, V. B. Mišković-Stanković, Determination of surface coverage of iron-phosphate coatings on steel using voltammetric anodic dissolution technique, *J. Serb. Chem. Soc.* 78 101-114 (2013).
10. **Bore V. Jegdić**, Ljiljana S. Živković, Jovan P. Popić, Jelena B. Bajat, Vesna B. Mišković-Stanković, Electrochemical methods for corrosion testing of Ce-based coatings prepared on AA6060 alloy by the dip immersion method, *J. Serb. Chem. Soc.* 78 (2013) 997-1011.
11. **B.V. Jegdić**, A.B. Alil, Z.R. Milutinović, Z.D. Odanović, B.R. Gligorijević, B.T. Katavić, Primena elektrohemijskih metoda za ispitivanje interkristalne korozije zavarenog spoja austenitnog nerđajućeg čelika 19Cr-9Ni, *Hemijska industrija*, 65 (2011) 179-186.
12. **B. Jegdić**, D. M. Dražić, J. P. Popić, V. Radmilović, Structural effect of metallic chromium on the its electrochemical behavior, *J. Serb. Chem. Soc.* 72 (2007) 563-578.
13. **B. Jegdić**, D. M. Dražić and J. P. Popić, Influence of chloride ions on open circuit potentials of chromium in sulfuric acid, *J. Serb. Chem. Soc.* 71 (2006) 1187-1194.
14. **B. Jegdić**, D. M. Dražić and J. P. Popić, Corrosion potential of 304 stainless steel in sulfuric acid, *J. Serb. Chem. Soc.* 71 (2006) 543-551.
15. D. M. Dražić, J. P. Popić, **B. Jegdić** and D. Vasiljević-Radović, Electrochemistry of Active Chromium. Part IV. Dissolution of Chromium in Deaerated Sulfuric Acid, *J. Serb. Chem. Soc.* 69 (2004) 1099-1110.
16. **Bore Jegdić**, Jovan Popić, Biljana Bobić, Maja Stevanović, Chemical corrosion of metals and alloys, *Zaštita materijala (Materials Protection)*, 57 (2016) 205-211.
17. B. Bobić, **B. Jegdić**, B. Jugović, J. Stevanović, B. Gligorijević, Failures of brass condenser tubes, *Structural Integrity and Life*, 16 (2016) 19-23.
18. **B. Jegdić**, M. Stevanović, A. Jegdić, Chemical and electrochemical dissolution of chromium at room and elevated temperatures, *Minning and Metallurgy Engineering Bor*, No2 (2015) 149-160.
19. **B. Jegdić**, B. Bobić, A. Jegdić, M. Stevanović, Mechanisms of hydrogen evolution on chromium, *Minning and Metallurgy Engineering Bor*, No 3 (2015) 145-156.
20. B. Bobić, N. Bajić, A. Jegdić, M. Stevanović, **B. Jegdić**, Determination of the weld metal corrosion rate using electrochemical techniques, *Zaštita materijala (Materials protection)*, 56 (2015) 315-319.
21. **B. Jegdić**, B. Bobić, B. Gligorijević, V. Mišković-Stanković, Corrosion properties of an aluminium alloy 7000 series after a new two step precipitation hardening, *Zaštita materijala (Materials Protection)*, 55 (2014) 387-394.

22. B. Bobić, **B. Jegdić**, B. Gligorijević, Analysis of corrosion damage in a boiler made of AISI 304L stainless steel, *Zaštita materijala (Materials Protection)*, 55 (2014) 33-37.
23. **B.V. Jegdić**, S.I. Ostojić, B.M. Bobić, A.B. Alil, Intergranular Corrosion of Welded Joints. Forming Conditions and Procedures for Prevention, *Structural Integrity and Life*, 13 (2013) 93–97.
24. **B. Jegdić**, S. Ristić, S. Polić-Radovanović, A. Alil, V. Rajaković-Ognjanović, Corrosion of Cannon 75/27, model 1911. Déport, from the Collection of the Military Museum in Belgrade, *FME Transactions*, 40 (2012) 145-151.

Saopštenja:

1. K. Jovičić, R. Jovičić, M. Prokolab, **B. Jegdić**, Integrity assessment for tank with crack in welded joints, 4th International Congress of Serbian Society of Mechanics, Section D: Interdisciplinary and Multidisciplinary Problems, Vrnjačka Banja, Serbia, 4-7 June 2013, Proceedings, pp. 687-692.
2. **Bore Jegdić**, Ana Alil, Biljana Bobić, Miroslav Radosavljević, Vesna Mišković-Stanković, Corrosion Testing of an Al-Zn-Mg-Cu Alloy After Different Heat Treatment Regimes by the Application of Electrochemical Methods, 5th International Scientific Conference on Defensive Technologies OTEH 2012, Belgrade, 18-19 September 2012, Proceedings pp. 588-593.
3. Ana Alil, **Bore Jegdić**, Biljana Bobić, Miroslav Radosavljević, Boris Katavić, Stress Corrosion Cracking of an Al-Zn-Mg-Cu Alloy After Different Precipitation Hardening Treatments, 5th International Scientific Conference on Defensive Technologies OTEH 2012, Belgrade, 18-19 September 2012, Proceedings pp. 582-587.
4. Bojan Gligorijević, Boris Katavić, Ana Alil, **Bore jegdić**, Marko Ristić, Milan Prokolab, Analysis of a floating-head heat exchanger, The 9th International Conference Structural Integrity of Welded Structures, 3-4 November 2011, Timisoara, Romania. Proceedings, pp. 1-9.
5. V.B. Miskovic-Stankovic, J. Popic, J. Bajat, **B. Jegdic**, J. Han, Y. Xiong, D. Young, B. Brown, S. Nestic, „The Passivation Effect of Thin Iron Oxide Films in Carbonate and Phosphate Solutions“, XXVI European Corrosion Congress EUROCORR 2011, Stockholm, Sweden, 2011, Proceedings, No. 4473 (CD Rom) pp. 1-4.
6. Slavica Ristić, Suzana Polić-Radovanović, Mila Popović-Živanović, **Bore Jegdić**, Bojana Radojković, Application of Thermography in Detection of Moisture in Aeronautical Museum Depot, 4th International Scientific Conference on Defensive Technologies OTEH 2011, Belgrade, Serbia, 6-7 October 2011, Proceedings, pp. 171-176.
7. J. Popić, **B. Jegdić**, J. Stevanović, J. Stajić-Trošić, Corrosion Potential of the 304 Stainless Steel in Weakly Acid Solutions“, Proceedings of the 3rd International Symposium Light Metals and Composite Materials, September 12 – 14, 2008., Belgrade, Serbia, Proceedings, pp. 137 – 142.
8. D. Dražić and **B. Jegdić**, Corrosion and Stress Corrosion Cracking, *IFMASS 8, From Fracture Mechanics to Structural Integrity Assessment*, Ed. S. Sedmak and Z. Radakovic, Belgrade, 2004, Book of papers, pp. 255-276.
9. Lj. Živković, J.B. Bajat, **B. Jegdić**, V. Mišković-Stanković, J. Popić, Corrosion Stability of Ce-based Coatings on AA6060, Third Regional Symposium on Electrochemistry South-East Europe, Program and Book of Abstracts, CPA-P-04, RSE-SEE, 13-17. May, 2012. Bucharest, Romania, Program and Book of Abstracts, p. 89.
10. Lj.S. Živković, **B. Jegdić**, J. Popić, V. Mišković-Stanković, J.B Bajat, "Corrosion Stability of Polyester Coatings on AA6060 Pretreated with Different Ce-Based Coatings ", 63rd Annual Meeting of the International Society of Electrochemistry, Prague, Czech Republic, 2012, Poster and abstract (CD Rom), s09-026.
11. J. Popić, **B. Jegdić**, V. Mišković-Stanković, J.B Bajat, " The disbonding of powder polyester coating on steel and steel pretreated by zinc- and iron- phosphate coatings", 63rd Annual Meeting of the International Society of Electrochemistry, Prague, Czech Republic, 2012, Poster and abstract (CD Rom), s09-024.
12. S. Budimir, **B. Jegdić**, M. Prokolab, M. Prvulović, Z. Milutinović, Welding parameters prediction by the analytical methods and use of numerical simulation software for GS-36Mn5 steel, TM 22, Program and the book of abstracts: The joint event of the Eleven young researchers conference materials science and engineering and the First european early stage researchers conference on hydrogen storage, Belgrade, December 3rd - 5th, Program and Book of Abstracts, 2012, p 22.
13. Jovan P. Popić, **Bore Jegdić**, Jelena B. Bajat, Vesna Mišković-Stanković, The study of the iron-phosphate coatings porosity in bufered borate solutions, CPA-P-05, Second Regional Symposium on Electrochemistry of South-East Europe, RSE-SEE, June 6-10, Belgrade, Serbia, Program and Book of Abstracts, 2010, p. 39.
14. V.B. Mišković-Stanković, J. Bajat, **B. Jegdić**, J. Han, D. Young, B. Brown, S. Nešić, Characterization of passive layers on steel surfaces in sodium chloride solutions, NACE CORROSION 2010, Research in progress (RIP) Symposium extended abstracts, March 14-18, San Antonio, Texas, USA, 2010, Symposium Extended Abstracts, pp. 89-92.
15. M. Prvulović, B. Gligorijević, **B. Jegdić**, M. Prokolab, D. Jovanović, Organometallic compounds and corrosion process on flue gas side of the water boiler system, Eleventh annual conference, YUCOMAT 2009., Herceg Novi, August 31- September 4, (2009). Poster and Book of Abstract, p. 149.
16. J.P. Popić, **B.V. Jegdić**, D.M. Dražić, Corrosion Potential of 304L Stainless Steel in the Neutral Sulphate Solution, First Regional Symposium on Electrochemistry of South-East Europe, May 4 – 8, Rovinj, Croatia, 2008, Book of Abstracts, pp. 355 – 356.
17. **B. Jegdić**, D.M. Dražić and J.P. Popić, Corrosion Potential of 304 Stainless Steel in Sulfuric Acid, 4th European Summer School on Electrochemical Engineering, ESSEE 4, September, 17-22, Palić, Serbia, 2006, Book of Abstracts, p. 22.
18. D.M. Dražić, J. P. Popić and **B. Jegdić**, Mechanism of Chromium Corrosion in Acid to Neutral pH Range Aqueous Solutions, 55th ISE Annual Meeting, 19-24. September, Thesaloniki, Greece, 2004, Book of Abstracts, S7FP34.
19. D.M. Dražić, J. P. Popić and **B. Jegdić**, Mechanisms of Chromium Dissolution Processes in Sulfate Solutions in the Acid to neutral pH range, 4th International Conference of the Chemical Societies of the South-East European Countries on Chemical Sciences in Changing Times: Visions, Challenges and Solutions, ICOSSECS 4, July, 18-21, 2004, Belgrade, Serbia and Montenegro, Book of Abstracts.