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Професионално искуство Области интересовања Пројекти Изабране публикације

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2013. доктор техничких наука-хемија и хемијска технологија, Технолошко-металуршки факултет, Универзитет у Београду
Дисертација - *Електрофоретско таложење и карактеризација хидроксиапатит/лигнин и сребро/хидроксиапатит/лигнин превлака на титану*

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Чланства у друштвима: Српско хемијско друштво (СХД), Међународно друштво за електрохемију (International Society of Electrochemistry, ISE) и Српско друштво истраживача рака.

Професионално искуство: **2008 – 2011.** стипендиста Министарства за науку и технолошки развој Републике Србије
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септембар-децембар 2011. студијски боравак, Département des sciences du bois et de la forêt, Université Laval, QC G1V 0A6, Québec city, Québec, Canada
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Награде и признања: **2012.** награда за најбољу усмену презентацију „ Biomaterials Science“ на „The Eleventh Young Researchers' Conference: Materials Science and Engineering“, Београд, Србија

Области интересовања: Биоматеријали; електрохемијски поступци таложења и карактеризације биокерамичких и нових биокompatibilних превлака; биополимери; корозиона стабилност и биоактивност.

Стручне вештине: Површинска карактеризација техником SEM микроскопије

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Знање језика: Енглески језик: конверзацијски; Руски језик: основе; Немачки језик: основе;

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2010 – 2011. Electrochemical non-metallic coatings on modified metal surfaces, Билатерални пројекат између Републике Србије и Републике Словеније, Министарство за науку и технолошки развој Републике Србије и Јавна агенција за разисковално дејавност Републике Словеније.

2011 – 2015. MPNS COST Action MP1005: From nano to macro biomaterials (design, processing, characterization, modeling) and applications to stem cells regenerative orthopedic and dental medicine (NAMABIO), European Cooperation in Science and Technology – COST.

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Основна истраживања:

2005 – 2010. ON142061, „Електрохемијске карактеристике оксидних и полимерних превлака на модификованим површинама метала“.

2011 – 2016. ИИИ45019, „Синтеза, развој технологија добијања и примена наноструктурних мултифункционалних материјала дефинисаних својстава“, (потпројекат 2 - Нове електрохемијске методе за добијање полимерних, керамичких и металних материјала).

Изабране публикације: Публиковани радови:

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- “Electrophoretic Deposition of Biocomposite Lignin/Hydroxyapatite Coatings on Titanium”, *International Journal of Chemical Reactor Engineering* 7 (2009) Article A62.
2. **Sanja Eraković**, Djordje Veljović, Papa N. Diouf, Tatjana Stevanović, Miodrag Mitrić, Djordje Janačković, Ivana Z. Matić, Zorica D. Juranić, Vesna B. Mišković-Stanković, “The effect of lignin on the structure and characteristics of composite coatings electrodeposited on titanium”, *Progress in Organic Coatings* 75 (2012) 275–283.
 3. Rade D. Surudžić, **Sanja G. Eraković**, Vesna B. Mišković-Stanković, „Sinteza i karakterizacija sinterovanih hidroksiapatit/lignin prevlaka na titanu“, *Hemijska industrija*, 66, 2 (2012) 187–192.
 4. Ana Janković, **Sanja Eraković**, Antonija Dindune, Djordje Veljović, Tatjana Stevanović, Djordje Janačković, Vesna Mišković-Stanković, “The electrochemical impedance spectroscopy of silver doped hydroxyapatite coating in SBF solution used as corrosive agent”, *Journal of Serbian Chemical Society*, 77, 11 (2012) 1609–1623.
 5. **Sanja Eraković**, Ana Janković, Djordje Veljović, Eriks Palcevskis, Miodrag Mitrić, Tatjana Stevanović, Djordje Janačković, Vesna Mišković-Stanković, “The corrosion stability and bioactivity in simulated body fluid of silver/hydroxyapatite and silver/hydroxyapatite/lignin coatings on titanium obtained by electrophoretic deposition”, *Journal of Physical Chemistry B* 117,6 (2013) 1633-1643.
 6. **Sanja Eraković**, Ana Janković, Ivana Z. Matić, Zorica D. Juranić, Maja Vukašinić-Sekulić, Tatjana Stevanović and Vesna Mišković-Stanković, “Investigation of Silver Impact on Hydroxyapatite/Lignin Coatings Electrodeposited on Titanium”, *Materials Chemistry and Physics*, 142, 2–3 (2013) 521-530.
 7. B. Belleville, T. Stevanovic, A. Cloutier, A. Pizzi, M. Prado, **S. Erakovic**, P. N. Diouf, M. Royer, “An investigation of thermochemical changes in Canadian hardwood species during wood welding”, *European Journal of Wood and Wood Products* 71, 2 (2013) 245-257.
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 9. **S. Eraković**, A. Janković, C. Ristoscu, L. Duta, N. Serban, A. Visan, I.N. Mihailescu, G.E. Stan, M. Socol, O. Iordache, I. Dumitrescu, C.R. Luculescu, Dj. Janačković, V. Mišković-Stanković, “Antifungal activity of Ag:hydroxyapatite thin films synthesized by pulsed laser deposition on Ti and Ti modified by TiO2 nanotubes substrates”, *Applied Surface Science* 293 (2014) 37–45.
 10. A. Janković, **S. Eraković**, C. Ristoscu, N. Mihailescu (Serban), L. Duta, A. Visan, G.E. Stan, A.C. Popa, M.A. Husanu, C.R. Luculescu, V.V. Srdić, Dj. Janačković, V. Mišković-Stanković, C. Bleotu, M.C. Chifiriuc, I.N. Mihailescu, „Structural and biological evaluation of lignin addition to simple and silver doped hydroxyapatite thin films synthesized by matrix-assisted pulsed laser evaporation“, *Journal of Materials Science: Materials in Medicine* 26:17 (2015) 1-14. DOI 10.1007/s10856-014-5333-y.
 11. Vesna Mišković-Stanković, **Sanja Eraković**, Ana Janković, Miodrag Mitrić, Nataša Bibić, Kyong Yop Rhee, “Preparation of nanosized hydroxyapatite/graphene composite powder using electrochemical method”, *Carbon Letters* 16,4 (2015) 233-240.
 12. Ana Janković, **Sanja Eraković**, Maja Vukašinić-Sekulić, Miodrag Mitrić, Vesna Mišković-Stanković, Kyong Yop Rhee, “Graphene-based antibacterial composite coatings electrodeposited on titanium for biomedical applications”, *Progress in Organic Coatings* 83 (2015) 1–10.
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Предавање по позиву:

1. **Sanja Eraković**, Ana Janković, Ivana Z. Matić, Zorica D. Juranić, Maja Vukašinić-Sekulić, Tatjana Stevanović, Vesna Mišković-Stanković, “Investigation of silver bioactivity of electrodeposited silver/hydroxyapatite/lignin coatings in simulated body fluid”, *First International Conference of Young Chemists of Serbia*, October 19 – 20, 2012, Belgrade, Serbia, Book of Abstracts, (CD Rom), BH-PP2 (p. 4).

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5. **Sanja Eraković**, Ana Janković, Miodrag Mitrić, Ivana Matić, Zorica Juranić, Gary C.P. Tsui, Chak-yin Tang, Vesna Mišković-Stanković, Kyong Yop Rhee, Soo Jin Park, “Electrophoretic Hybrid Hydroxyapatite/Graphene Coatings on Titanium”, *Thirteenth Young Researchers’ Conference: Materials*

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 8. **S. Erakovic**, A. Jankovic, C. Ristoscu, L. Duta, N. Serban, A. Visan, G. Stan, M. Socol, C.R. Luculescu, I.N. Mihailescu, V. Miskovic-Stankovic, "PLD deposited thin films on titanium modified by TiO2 nanotubes", Fourth Regional Symposium on Electrochemistry South East Europe (RSE-SEE), Ljubljana, 2013, Slovenia, Book of abstracts, p. 129.
 9. A. Jankovic, N. Serban, L. Duta, **S. Erakovic**, C. Ristoscu, G.E. Stan, A. Visan, C. Luculescu, M.C. Chifiriuc, V. Miskovic-Stankovic, I.N. Mihailescu, "Pure and doped hydroxyapatite thin films synthesized by advanced laser techniques for metal implant coatings", E-MRS 2013 Spring Meeting, Strasbourg, 2013, France Book of abstracts, p. V10.
 10. **S. Eraković**, A. Janković, C. Ristoscu, L. Duta, N. Serban, A. Visan, I.N. Mihailescu, G.E. Stan, M. Socol, O. Iordache, I. Dimitrescu, C.R. Luculescu, Dj. Janačković, V. Mišković-Stanković, "Silver/hydroxyapatite coating on pure and anodized titanium obtained by pulsed laser deposition", YUCOMAT 2013, Herceg Novi, 2013, Montenegro, Book of abstracts, P.S.E.12, p. 140.
 11. **Sanja Eraković**, Ana Janković, Carmen Ristoscu, Liviu Duta, Natalia Serban, Anita Visan, George E. Stan, Catalin Luculescu, Djordje Janacković, Ion N. Mihailescu, Vesna Mišković-Stanković, "Laser assembling of thin bioceramic and biocomposite films on titanium utilizing Pulsed laser deposition (PLD) and Matrix-assisted pulsed laser evaporation (MAPLE) techniques", Twelfth Young Researchers' Conference-Materials Science and Engineering, 2013, Belgrade, Serbia, Book of Abstracts, XII/1 (p. 41).
 12. **Sanja Eraković**, Rade Surudžić, Djordje Veljović, Ana Janković, Tatjana Stevanović, Vesna Mišković-Stanković, "Electrochemical studies of composite hydroxyapatite/lignin coatings doped with silver", Satellite Student Regional Symposium on Electrochemistry-3rd Regional Symposium on Electrochemistry of South-East Europe (SSRSE-RSE-SEE 3), Bucharest, Romania, 2012, Book of Abstracts, SS – O – 05, p. 129.
 13. **Sanja Eraković**, Rade Surudžić, Djordje Veljović, Tatjana Stevanović, Maja Vukašinović-Sekulić, Ivana Matić, Zorica Juranić, Vesna Mišković-Stanković, "Corrosion stability of silver-doped hydroxyapatite/lignin coatings in simulated body fluid", 3rd TERMIS World Congress, Vienna, Austria, 2012, J Tissue Eng Regen Med 2012; 6 (Suppl. 1): 1–429 (32.P30, p. 210).
 14. Vesna Mišković-Stanković, **Sanja Eraković**, Rade Surudžić, Djordje Veljović, Tatjana Stevanović, Maja Vukašinović-Sekulić, Ivana Matić, Zorica Juranić, "Electrophoretic deposition of bioactive nanocomposite coatings on titanium as a hard tissue implants", 3rd TERMIS World Congress, Vienna, Austria, 2012, J Tissue Eng Regen Med 2012; 6 (Suppl. 1): 1–429 (36.P07, p. 235).
 15. **Sanja Eraković**, Marija Đošić, Rade Surudžić, Ana Janković, Tatjana Stevanović, Vesna Mišković-Stanković, „SEM i XRD analiza prevlaka hidroksiapatita i kompozitnih hidroksiapatit/lignin prevlaka na titanu u simuliranoj telesnoj tečnosti", 50. Savetovanje Srpskog hemijskog društva, Beograd, 2012, Knjiga apstrakata (CD Rom), EHP4 (str. 28).
 16. A. Janković, **S. Eraković**, R. Surudžić, Dj. Veljović, M. Vukašinović-Sekulić, I. Matić, Z. Juranić, Dj. Janačković, T. Stevanović, V. Mišković-Stanković, "The Investigation of Silver Impact on Hydroxyapatite Coatings", First International Conference on Processing, characterisation and application of nanostructured materials and nanotechnology (NanoBelgrade), Belgrade, 2012, Book of Abstracts, OP18, p. 68.
 17. **Sanja Eraković**, Ana Janković, Ivana Matić, Zorica Juranić, Maja Vukašinović-Sekulić, Tatjana Stevanović, Vesna Mišković-Stanković, "The bioactivity investigation of electrodeposited silver/hydroxyapatite/lignin coatings in simulated body fluid", The Eleventh Young Researchers' Conference: Materials Science and Engineering, Belgrade, 2012, Serbia, Book of Abstracts, TM 3 (p. 45).
 18. **Sanja Eraković**, Djordje Veljović, Papa N. Diouf, Tatjana Stevanović, Miodrag Mitrić, Djordje Janačković, Vesna Mišković-Stanković, "Structure analysis of silver doped composite hydroxyapatite/lignin coatings", Second International Workshop on Characterization, Properties and Application of Nanostructured Ceramics, Polymers, and Composites, Faculty of Technology and Metallurgy, University of Belgrade - Nanotechnology and Functional Materials Centre, Belgrade, 2011, Serbia, Book of Abstracts, P12 (p. 42).
 19. Rade Surudžić, **Sanja Eraković**, Vesna Mišković-Stanković, "The corrosion stability of hydroxyapatite/lignin on titanium in simulated body fluid", Second International Workshop on Characterization, Properties and Application of Nanostructured Ceramics, Polymers, and Composites, Faculty of Technology and Metallurgy, University of Belgrade - Nanotechnology and Functional Materials Centre, October 24-25, 2011, Belgrade, Serbia, Book of Abstracts, P17 (p.47).
 20. **Sanja Eraković**, Rade Surudžić, Djordje Veljović, Tatjana Stevanović, Djordje Janačković, Vesna Mišković-Stanković, "The comparison of corrosion resistance between composite silver/hydroxyapatite/lignin (Ag/HAP/Lig) and hydroxyapatite/lignin (HAP/Lig) coatings in simulated body fluid", Tenth Young Researchers Conference – Materials Science and Engineering, SASA, Belgrade 2011, Serbia, Book of Abstracts, I/9 (p. 5).
 21. **Sanja G. Eraković**, Đorđe Veljović, Papa Diouf, Tatjana Stevanović, Miodrag Mitrić, Đorđe Janačković, Vesna Mišković-Stanković, „ATR-FTIR i XRD analiza kompozitnih hidroksiapatit/lignin prevlaka dobijene

- postupkom elektroforetskog taloženja“, XLIX Savetovanje Srpskog hemijskog društva, Beograd, 2011, Zbornik radova (CD Rom), 64-67.
22. **Sanja Eraković**, Đorđe Veljović, Papa N. Diouf, Tatjana Stevanović, Miodrag Mitrić, Ivana Matić, Zorica Juranić, Đorđe Janačković, Vesna Mišković-Stanković, „Morphology and cytotoxicity of hydroxyapatite/lignin composite coatings“, First Conference of the Serbian Ceramic Society, Belgrade, March 17-18. 2011, Serbia, Book of Abstracts (p. 31).
 23. **Sanja Eraković**, Đorđe Veljović, Miodrag Mitrić, Papa N. Diouf, Tatjana Stevanović, Vesna Mišković-Stanković, „Preparation and characterization of electrodeposited HAP/Lig coatings with different lignin concentration“, Second Regional Symposium on Electrochemistry of South-East Europe (RSE-SEE 2) Belgrade, Serbia, 2010, Book of Abstracts, (CD Rom), SDE-P-11 (p. 131.).
 24. **Sanja Eraković**, Đorđe Veljović, Miodrag Mitrić, Papa N. Diouf, Tatjana Stevanović, Vesna Mišković-Stanković, „The study of electrodeposited HAP/Lig coatings“, ISE Satellite Student Regional Symposium on Electrochemistry (ISE SSRSE), Belgrade, Serbia, 2010, Book of Abstracts, (CD Rom), O-01 (p. 151).
 25. **S. Eraković**, Đ. Veljović, P. Diouf, T. Stevanović, M. Mitrić, Đ. Janačković, I. Matić, Z. Juranić, V. Mišković-Stanković, „Electrophoretic HAP/Lig Coatings: Biomimetic Approach“, International Workshop on Processing of Nanostructured Ceramics, Polymers, and Composites, TMF, Belgrade, 2010, Book of Abstract, P6 (p. 50).
 26. **Sanja Eraković**, Đorđe Veljović, Papa N. Diouf, Tatjana Stevanović, Miodrag Mitrić, Ivana Matić, Zorica Juranić, Vesna Mišković-Stanković, The characterization of HAP/Lig coatings containing different lignin concentrations and their influence on the cytotoxicity, Ninth Young Researchers Conference – Materials Science and Engineering, Belgrade, 2010, Serbia, Book of Abstracts, IV/5 (p. 17).
 27. **Sanja Eraković**, Đorđe Veljović, Papa N. Diouf, Tatjana Stevanović, Miodrag Mitrić, Vesna Mišković-Stanković, „The influence of lignin concentration on the properties of hybrid HAP/Lig coatings on titanium obtained by electrophoretic deposition“, Materioux 2010, Nantes, France, 2010, Book of Papers (CD Rom), abstract No. 1728 (p. 1-18).
 28. **Sanja G. Eraković**, Vladimir V. Panić, Bojan M. Jokić, Vesna B. Mišković-Stanković, „Elektroforetsko taloženje prevlaka hidroksiapatita na TiO₂ nanotubama“, XLVII Savetovanje Srpskog hemijskog društva, Beograd, 2009, Zbornik radova (CD Rom), 59-62.
 29. **Sanja Eraković**, Đorđe Veljović, Papa N. Diouf, Tatjana Stevanović, Miodrag Mitrić, Vesna Mišković-Stanković, Biokompozitne HAP/Lig prevlake elektroforetski taložene na titanu, Osmo konferencija mladih istraživača – Nauka i inženjerstvo novih materijala, SANU, Beograd, 2009, Knjiga apstrakata, IV/6 (str. 18).
 30. **Sanja G. Eraković**, Vladimir V. Panić, Bojan M. Jokić, Vesna B. Mišković-Stanković, „Electrophoretic Deposition of Hydroxyapatite-based Coatings onto Titanium with Differently Prepared TiO₂ Interlayer“, 60th Annual Meeting of the International Society of Electrochemistry, Beijing, China, 2009, Book of Abstracts (CD Rom), s08 – P – 028 (p. 123).
 31. **Sanja Eraković**, Đorđe Veljović, Papa N. Diouf, Tatjana Stevanović, Miodrag Mitrić, Slobodan Milonjić, Vesna Mišković-Stanković, „Electrophoretic Deposition of Biocomposite Lignin/Hydroxyapatite Coatings on Titanium“, XIIème Congrès de la Société Française de Génie des Procédés, Marseille 2009, Section 05 “Matériau et Produits“, poster n°816 (CD Rom).