NASTAVNO-NAUČNOM VEĆU STOMATOLOŠKOG FAKULTETA

UNIVERZITETA U BEOGRADU

Odlukom Nastavno-naučnog veća Stomatološkog fakulteta Univerziteta u Beogradu donetoj na sednici održanoj 01.10.2024. godine, imenovani smo za članove Komisije za ocenu ispunjenosti uslova za izbor u naučno zvanje **viši naučni saradnik** kandidata **dr Maje Zebić** (devojačko **Ležaja**) u oblasti Medicinkse nauke. Na osnovu Zakona o naučnoistraživačkoj delatnosti („Službeni glasnik RS“ br 49/19), u skladu sa članom 21. Pravilnika o postupku i načinu vrednovanja i kvantitativnom iskazivanju naučno-istraživačkih rezultata istraživača („Službeni glasnik RS“ br. 159/2020), podnetih dokumenata i uvida u rezultate naučno-istraživačkog rada, podnosimo Nastavno-naučnom veću sledeći:

IZVEŠTAJ

1. Opšti biografski podaci

Dr Maja Zebić rođena je 12.01.1984. godine u Zadru, R. Hrvatska. Stomatološki fakultet Univerziteta u Beogradu upisala je školske 2002/03, a diplomirala u novembru 2007. godine sa prosečnom ocenom 9,43. U decembru 2009. godine je položila stručni ispit. Doktorske studije na Stomatološkom fakultetu Univerziteta u Beogradu upisala je školske 2010/11. godine. Doktorsku disertaciju izrađenu na Klinici za Bolesti zuba, pod nazivom: „Kompoziti i adhezivi sa sintetskim hidroksiapatitnim puniocima i hidroksiapatitni inserti: ispitivanje mehaničkih svojstava i kvaliteta adhezivne veze“ odbranila je 20.05.2015. godine na Stomatološkom fakultetu Univerzitete u Beogradu. Zvanje *naučni saradnik* stekla je odlukom Komisije za sticanje naučnih zvanja na sednici održanoj 26.04.2017. godine. Isto zvanje je produženo za 3 godine, zbog porodiljskog odsustva do 25.04.2025. godine.

Od 2010. godine dr Maja Zebič je član istraživačke Laboratorije Klinike za bolesti zuba, odnosno nakon preseljenja 2022. godine laboratorije Implantološko-istraživačkog centra. Od 2012. do 2019. godine bila je angažovana na projektu: „Razvoj i primena metoda i materijala za monitoring novih zagađujućih i toksičnih organskih materija i teških metala“, odnosno podprojektu “Uticaj toksičnih sastojaka na fizičko-mehaničke i biološke osobine stomatoloških restaurativnih materijala” kojim je rukovodila Prof. dr Vesna Miletić (ON172007), koji je finansiran od stane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije. Od januara 2020. godine zaposlena je u okviru godišnjeg ugovora sa Ministarstva prosvete, nauke i tehnološkog razvoja odnosno Ministarstvom nauke, tehnološkog razvoja i inovacija Republike Srbije o realizaciji i finansiranju naučno-istraživačkog rada NIO Stomatološkog fakulteta u Beogradu.

Dr Maja Zebić je dosada objavila 11 naučnih radova u časopisima sa impakt faktorom, 3 rada u časopisima bez impakt faktora i imala 36 naučnih saopštenja.

2. Analiza naučno-istraživačkog rada

Naučno-istraživački rad dr Maje Zebić odnosi se na in-vitro istraživanja u oblasti restaurativne stomatologije.

Studija uticaja toplote oslobođene pri aplikaciji kompozitnih materijala na izvađenim zubima, predstavljala je početak kandidatovih istraživanja fizičkih i hemijskih osobina stomatoloških materijala i njihovog potencijalno agresivnog uticaja na tkiva zuba. Ispitivane su temperaturne promene tokom prosvetljavanja siloranskih, ormocernih i dimetakrilatnih kompozitnih materijala i njihov uticaj na tkiva ekstrahovanih zuba. Rezultati su pokazali značajno različitu dinamiku oslobađanja toplote u zavisnosti od hemizma kompozitnih materijala kao i mogućnosti preostalog sloja dentina da ublaži negativne temperaturne uticaje materijala.

Najveći deo kandidatovih istraživanja temeljio se na dodavanju hidroksiapatita kao punioca i hidroksiapatitnih inserata kao restaurativnih materijala.

U okviru doktorske disertacije ispitani su eksperimentalni kompoziti sa dodatkom različitih oblika hidroksiapatitnih punioca, adhezivi sa dodatkom nanočestičnih hidroksiapatitnih punioca, kao i hidroksiapatitni inserti, odnosno sinterovana hidroksiapatitna keramika u definisanom obliku tako da predstavlja dentinski zamenik. Osim jačine veze koju ovi inserti ostvaruju sa različitim restaurativnim materijalima, ispitan je i uticaj inserata na smanjenje kontrakcije ukupne restauracije u odnosu na restauraciju kompozitnim materijalom, pomoću metode korelacija slika u tri dimenzije. Rezultati su pokazali da hidroksiapatitini punioci mogu u mehaničkom smislu da pariraju najčešće korišćenim staklenim puniocima, pri čemu ih hidroksiapatitne sfere čak poboljšavaju. Dodatkom nano-hidroksiapatita u adhezive jačina veze sa dentinom je ostala slična ili poboljšana i nije ometen prodor adheziva u dentinske kanaliće. Hidroksiapatitni inserti se pri kiselinskom nagrizanju ponašaju slično kao dentin, odnosno povećava im se broj i promer pora na površini, što doprinosu uspostavljanju mikromehaničke veze sa restaurativnim materijalima. Upotrebom hidroksiapatitnih inserata smanjena je polimerizaciona kontrakcija i pomeranje materijala tokom restaurativne procedure.

Rad sa eksperimentalnim kompozitnim materijalima obuhvatao je i ispitivanje uticaja dodatka alternativnih fotoinicijatora (Lucirin TPO) i nisko-kontrakcionih metakrilnih monomera na bazi uretana (FIT852) na boju i translucenciju kompozita, kao i na sklonost promeni boje usled kontakta sa prebojavajućim sastojcima pića (crni čaj, crni čaj sa mlekom ili crni čaj sa limunom). Rezultati su pokazali da nisko-kontrakcioni monomer u svetlijim nijansama kompozita uzrokuje veće prebojavanje kompozita, dok dodatak alternativnog fotoinicijatora doprinosi boljoj stabilnosti boje bez obzira na korišćeni monomer. Dodatak mleka u čaj je ublažilo promenu boje kompozita koju crni čaj izaziva.

Ispitivanje hidroksiapatitnih inserata nastavljeno je kroz istraživanja modifikovanih hidroksiapaptitnih inserata. Jitrijumom stabilizovana cirkonikum hidroksiapatitna keramika sintetisana je u okviru doktorske disertacije kandidata Giuma Ayoub (kandidatkinja dr Maja Zebić bila je član komisije za odbranu doktorske disertacije) i zabeležena je još bolja veza sa restauratinim stomatološkim materijalim. Dalji rad na unapređenju hidroksiapatitnih inserata bazirao se na dodatku (dopiranju) bioaktivnih jona stroncijuma i magnezijuma u hidroksiapatitne inserte. Istraživanja sa navedenim insertima deo su doktorske disertacije kandidata Tamare Matić, kojoj je kandidatkinja dr Maja Zebić bila u komisiji za ocenu podobnosti teme za izradu doktorske disertacije. Hidroksiapatitni inserti sa dodatkom jona stroncijuma, magnezijuma i fluora su i predmet podnesene i objavljene patentne prijave.

Hidroksiapatitni inserti dopirani jonima stroncijuma i magnezijuma ispitani su u ekstrahovanim zubima u smislu njihovog uticaja na ukupnu mehaničku otpornost zuba na lom, gde su pokazali da, iako keramike u suštini predstavljaju krte i lomljive materijale, ne slabe kupnu otpornost zuba.

Veliki deo kandidatovih istraživanja bavio se istraživanjem mehaničkih svojstava materijala, tvrdoće po Vikersu, kompresivne čvrstoće, savojene čvrstoće, jačine veze restaurativnih materijala što sa dentinom, jačine veze inserata sa restaurativnim materijalima bilo da je u pritanju test smicanja ili mikroistezanja pri različitim uslovima aplikovanja i starenja.

Novija oblast istraživanja kandidata usmerena je i na isipitivanje polimerizacije restaurativnih materijala, odnosno ispitivanje njihove transmisivnosti za zračenje različitih talasnih dužina u odnosu na uobičajeno korišćeno plavo svetlo.

3. Bibliografija

Rezultati istraživanja u kojima je dr Maja Zebić do sada učestvovala publikovani su: 4 rada u međunarodnim časopisima izuzetne vrednosti (M21a), 1 radu u vrhunskom međunarodnom časpoisu (M21), 4 rada u istaknutim međunarodnim časopisima (M22), 2 rada u međunarodnom časopisu (M23), 1 rada u nacionalnom časopisu međunarodnog značaja (M24), 2 rada u vrhunskim časopisima nacinalnog značaja (M51) i imala je 36 kongresnih naučnih saopštenja. Nakon izbora u naučno zvanje naučni saradnik dr Maja Zebić je publikovala 2 rada u međunarodnim časopisima izuzetne vrednosti (M21a), 1 rad u vrhunskom međunarodnom časpoisu (M21), 3 rada u istaknutim međunarodnim časopisima (M22), 1 rada u nacionalnom časopisu međunarodnog značaja (M24) i 2 rada u vrhunskim časopisima nacinalnog značaja (M51). Kumulativni impakt faktor svih objavljenih radova iznosi 35,581, dok je kumultivni impakt faktor radova objavljenih nakon izbora u naučno zvanje naučni saradnik 23,153. Broj kongresnih saopštenja nakon izbora u naučno zvanje naučni saradnik je 28.

RADOVI OBJAVLJENI PRE IZBORA U NAUČNO ZVANJE NAUČNI SARADNIK

Radovi u međunarodnim časopisima izuzetnih vrednosti, kategorija M21a (10 bodova)

(2x10=20)

1. **Lezaja M.**, Veljovic D., Manojlovic D., Milosevic M., Mitrovic N., Janackovic D., Miletic V. Bond strength of restorative materials to hydroxyapatite inserts and dimensional changes of insert-containing restorations during polymerization. (2015) *Dent Mater*; 31**,**171-81.

IF 2013= 4,160

Dentistry, Oral Surgery & Medicine (3/88) **M21a**

17 heterocitata

2. Manojlovic D., Dramicanin M., **Lezaja M**., Pongprueska P., Van Meerbeek B., Miletic V. Effect of resin and photoinitiator on color, translucency and color stability of conventional and low-shrinkage model composite. (2016) *Dent Mater* 32(2),183-91.

IF 2016= 4,070

Dentistry, Oral Surgery & Medicine (3/88) **M21a**

38 heterocitata

Radovi u istaknutim međunarodnim časopisima kategorije M22 (5 bodova)

(1x5=5)

3. **Lezaja M.**, Veljovic D., Jokic B., Cvijovic-Alagic I., Zrilic M., Miletic V. Effect of hydroxyapatite spheres, whiskers, and nanoparticles on mechanical properties of a model BisGMA/TEGDMA composite initially and after storage. (2013) *J Biomed Mater Res B Appl Biomater,* 101**,**1469-76.

IF 2013= 2,328

Engineering, Biomedical (25/76) **M22**

27 heterocitata

Radovi u međunarodnim časopisima kategorije M23 (3 boda)

(2x3=6)

4. Miletic V., Ivanovic V., Dzeletovic B., **Lezaja M.** Temperature Changes in Silorane-, Ormocer-, and Dimethacrylate-Based Composites and Pulp Chamber Roof during Light-Curing. (2009) *J Esthet Restor Dent*, 21,122–132.

IF 2009=0,797
Dentistry, Oral Surgery & Medicine (57/64) **M23**
19 heterocitata

5. **Lezaja M.**, Jokic B., Veljovic D., Miletic V. Shear Bond Strength to Dentine of Dental Adhesives Containing Hydroxyapatite Nano-fillers. (2016) *J Adhes Sci Tech*. 30(24), 2678-2689 https://doi.org/10.1080/01694243.2016.1197086

IF 2016=1,073
Mechanics (93/133) **M23**
10 heterocitata

Doktorska disertacija M71 (6 bodova)

(1x6=6)

Ležaja M. (2015) Kompoziti i adhezivi sa sintetskim hidroksiapatitnim puniocima i hidroksiapatitni inserti: ispitivanje mehaničkih svojstava i kvaliteta adhezivne veze. Stomatološki fakultet, Univerzitet u Beogradu.

Saopštenja sa međunarodnih skupova štampana u izvodu M34 (0,5 bodova)

(7x0,5=3,5)

1. **Ležaja M.**, Veljović D, Jokić B., Cvijović-Alagić I., Miletić V. Mechanical properties of experimental composites with different types of hydroxyapatite fillers. (2012) *NanoBelgrade conference*, Belgrade, 26-28 septembar 2012. Book of abstracts, PP27, page 105.

2. **Ležaja M.**, Savic-Stankovic T., Manojlovic D., Veljovic D., Milosevic M. Bond strength of restorative materials to hydroxyapatite inserts and dimensional stability of insert-containing restorations. (2014) *19th BaSS congress,* Belgrade, 24. – 27. april 2014. Book of abstracts, PP44, page 121.

3. Manojlovic D., **Lezaja M.**, Savic-Stankovic T., Milosevic M., Mitrovic N. Dimensional stability of experimental composites containing a low-shrinkage monomer and monoacylposphine oxide photoinitiator. (2014) *19th BaSS congress,* Belgrade, 24. – 27. april 2014. Book of abstracts, PP46, page 122.

4. Savic-Stankovic T., Manojlovic D., **Lezaja M.**, Karadzic B., Miletic V. Clinical evaluation of post-restorative sensitivity associated with a new bioactive tricalcium silicate cement. (2014) *19th BaSS congress,* Belgrade, 24. – 27. april 2014. Book of abstracts, PP47, page 122.

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7. Savic-Stankovic T., Manojlovic D., **Lezaja M.**, Cvijovic-Alagic I., Milosevic M., Mitrovic N., Miletic V. Physical properties of a tricalcium silicate-based cement (biodentine). (2014) *IARD/PER congress,* 10-13. september, Dubrovnik, Croatia. Poster number 390. Link:

https://live.blueskybroadcast.com/bsb/client/_new_default.asp?action=SEARCH&Client=404900

RADOVI OBJAVLJENI NAKON IZBORA U NAUČNO ZVANJE NAUČNI SARADNIK

M21a (10 bodova)

(2*10=20)

1. Giuma Ayoub, Djordje Veljovic, **Maja Lezaja Zebic**, Vesna Miletic, Eriks Palcevskis, Djordje Janackovic. Composite nanostructured hydroxyapatite/yttrium stabilized zirconia dental inserts – The processing and application as dentin substitutes. *Ceramics International*, **2018**;44(15): 18200-18208. https://doi.org/10.1016/j.ceramint.2018.07.028

IF 2018=3,450
Materials Science, Ceramics (2/28) **M21a**
22 heterocitata

2. **Maja Lezaja Zebic**, Branka Muric, Svetlana Savic-Sevic, Bojan Dzeletovic, Djordje Stratimirovic, Dejan Pantelic. Real-time multispectral transmission of hard tooth tissues and dental composites with their heating. *Dental Materials*. **2023**;39:903-912. https://doi.org/10.1016/j.dental.2023.08.174

IF 2021=5,687
Dentistry, Oral Surgery & Medicine (6/91) **M21a**
2 heterocitata

M21 (8 bodova)

(1*8=8)

1. Tamara Matic, **Maja Lezaja Zebic**, Vesna Miletic, Ivana Cvijovic-Alagic, Rada Petrovic, Djordje. Janackovic, Djordje Veljovic. Sr, Mg co-doping of calcium hydroxyapatite: Hydrothermal synthesis, processing, characterization and possible application as dentin substitutes. *Ceramics International*. 2022;48(8):11155-11165. https://doi.org/10.1016/j.ceramint.2021.12.335

IF 2021=5,532
Materials Science, Ceramics (3/29) **M21**
8 heterocitata

M22 (5 bodova)

(3*5=15)

1. **Maja Lezaja Zebic**, Bojan Dzeletovic and Vesna Miletic. Micro-tensile bond strength of universal adhesives to flat versus Class I cavity dentin with pulpal pressure simulation. *J Esthet Restor Dent*, 2018;30(3):240-248. https://doi.org/10.1111/jerd.12363

   IF 2018=1,716
   Dentistry, Oral Surgery & Medicine (40/91) **M22**
   10 heterocitata

2. Giuma Ayoub, **Maja Lezaja Zebic**, Vesna Miletic, Rada Petrovic, Djordje Veljovic, Djordje Janackovic. Dissimilar sintered calcium phosphate dental inserts as dentine substitutes: Shear bond strength to restorative materials. *J Biomed Mater Res B Appl Biomater*, 2020;108(6):2461-2470. https://doi.org/10.1002/jbm.b.34578

   IF 2020=3,368
   Engineering, Biomedical (42/90) **M22**
   1 Heterocitat

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   IF 2022=3,4
   Engineering, Biomedical (50/97) **M22**
   1 heterocitat

M24 (2 boda)

(1*2=2)

1. Tamara Matic, **Maja Lezaja Zebic**, Ivana Cvijovic-Alagic, Vesna Miletic, Rada Petrovic, Djordje Janackovic, Djordje Veljovic. ″The effect of calcinated hydroxyapatite and magnesium doped hydroxyapatite as fillers on the mechanical properties of a model BisGMA/TEGDMA dental composite initially and after aging″. *Metallurgical and Materials Engineering,* **2018**; 24(4). https://doi.org/10.30544/403.

M51 (2 boda)

(2*2=4)

2. **Maja Lezaja Zebic**, Nikola Jakovljevic, Vesna Miletic. Fluoride release from conventional, resin-modified and hybrid glass ionomer cements. *Serbian Dental Journal*, **2018**; 65(4):187-191. DOI: 10.2478/sdj-2018-0018

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Predavanje po pozivu M32 (1,5 bodova)

(1*1,5=1,5)

1. **Maja Zebić**. Advances in dental composite curing. 7th CNN Tech Conference, Zlatibor, Serbia, 4-7 July 2023, Abstract book page 73. 05.07.2023.

Saopštenje sa međunarodnog skupa štampano u celini M33 (1 bod)

(3*1=3)

1. Aleksandar Bodic, **Maja Lezaja Zebic**, Milan Bojovic, Djordje Veljovic and Vladimir Milovanovic. "Comparative Numerical Analyses of Tooth Restored with Hydroxyapatite Ceramic Insert Versus Traditional Composite Restoration". 9th International Congress of the Serbian Society of Mechanics (ICSSM2023), 2023, ID142.9o
2. T. Matić, **M. Ležaja Zebić**, V. Miletić, S. Jevtić, R. Petrović, Đ. Janaćković, Đ. Veljović. The fabrication of dental insert based on magnesium doped hydroxyapatite and its shear bond strength with Maxcem dental cement, 6th International conference on Electrical, Electronic and Computing Engineering: IcETRAN-2019, Silver Lake, June 3-6th, 2019, Proceedings of Papers pp. 680-683 (ISBN: 978-86-7466-785-9)
3. Matić T., **Ležaja Zebić M**., Miletić V., Petrović R., Janaćković Dj., Veljović Dj. Bonding ability of magnesium doped hydroxyapatite based insert with Clearfil dental adhesive, Proceedings of the YOUng ResearcherS Conference, Virtual Conference 2020, pp. 143-147.

Saopštenje sa međunarodnog skupa štampano u izvodu M34 (0,5 boda)

(25*0,5=12,5)

1. Giuma Ayoub, Djordje Veljovic, **Maja Lezaja Zebic**, Eriks Palcevskis, Vesna Miletic, Djordje Janackovic. Composite nanostructured HAp/YSZ dental inserts – processing, mechanical properties and application in dental restorations, YUCOMAT 2017, P.S.E.6., Book of Abstracts p.103, 4-8 September 2017, Herceg Novi, Montenegro.
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3. T. Matić, **M. Ležaja Zebić**, Miletić, R. Petrović, Đ. Janaćković, Đ. Veljović, The comparison of the bonding ability of dental inserts based on strontium and magnesium doped hydroxyapatite with restorative materials, The 13th Conference for Young Scientists in Ceramics: CYSC-2019, Novi Sad, October 16-19, 2019, Book of Abstracts, p. 117 (ISBN: 978-86-6253-104-9)
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5. T. Matić, **M. Ležaja Zebić**, V. Miletić, R. Petrović, Đ. Janaćković, Đ. Veljović," Dental inserts based on calcium hydroxyapatite: The influence of cation doping", Programme and the Book of Abstracts, p. 13, 19th Young Researchers Conference-Materials Science and Engineering, YRC 2021, ISBN 978-86-80321-36-3, 1-3. December 2021, Belgrade, Serbia.
6. Tamara Matić, **Maja Ležaja Zebić**, Vesna Miletić, Rada Petrović, Đorđe Janaćković, Đorđe Veljović. ″ Hydroxyapatite based inserts in restorative dentistry: Effects of calcium substitutions on the bonding ability″. Programme and the Book of Abstracts, P.S.I.19, Twenty-second annual conference YUCOMAT 2021, ISBN 978-86-919111-6-4, August 30 - September 3, 2021, Herceg Novi, Montenegro.
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8. Dželetović B, Praščević L, **Ležaja Zebić M**. ENDODONTIC TREATMENT OF MAXILLARY CANINE WITH LATERAL PERIODONTITIS. 25st Congress of the BaSS, Sarajevo, Bosnia and Herzegovina, 19-21th of May, 2022, Abstract book, pp 57.
9. Dželetović B, Pavlović D, **Ležaja Zebić M**. ENDODONTIC RETREATMENT OF MANDIBULAR FIRST MOLAR WITH PERIAPICAL LESION AFTER CAST POST RETRIEVAL. 25st Congress of the BaSS, Sarajevo, Bosnia and Herzegovina, 19-21th of May, 2022, Abstract book, pp 59.
10. Dželetović B, Jovanović J, **Ležaja Zebić M**. REMOVAL OF SEPARATED ENDODONTIC INSTRUMENTS. 25st Congress of the BaSS, Sarajevo, Bosnia and Herzegovina, 19-21th of May, 2022, Abstract book, pp 61.
11. Matić T., **L. Zebić M**., Miletić V., Petrović R., Janaćković Đ., Veljović Đ. The Influence of hydrothermal synthesis temperature of magnesium doped hydroxyapatite on its application as dentin substitute, - Book of Abstracts 6th Conference of the Serbian Society for Ceramic Materials, Belgrade 2022, p. 36.
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PET NAJZNAČAJNIH NAUČNIH OSTVARENJA (nakon izbora u zvanje naučni saradnik)

1. Giuma Ayoub, Djordje Veljovic, **Maja Lezaja Zebic**, Vesna Miletic, Eriks Palcevskis, Djordje Janackovic. Composite nanostructured hydroxyapatite/yttrium stabilized zirconia dental inserts – The processing and application as dentin substitutes. *Ceramics International*, **2018**;44(15): 18200-18208. https://doi.org/10.1016/j.ceramint.2018.07.028

   Kategorija M21a; IF 2018=3,450

2. **Maja Lezaja Zebic**, Branka Muric, Svetlana Savic-Sevic, Bojan Dzeletovic, Djordje Stratimirovic, Dejan Pantelic. "Real-time multispectral transmission of hard tooth tissues and dental composites with their heating." *Dental Materials*. **2023**;39:903-912. https://doi.org/10.1016/j.dental.2023.08.174

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3. Tamara Matic, **Maja Lezaja Zebic**, Vesna Miletic, Ivana Cvijovic-Alagic, Rada Petrovic, Djordje. Janackovic, Djordje Veljovic. Sr, Mg co-doping of calcium hydroxyapatite: Hydrothermal synthesis, processing, characterization and possible application as dentin substitutes. *Ceramics International*. 2022;48(8):11155-11165. https://doi.org/10.1016/j.ceramint.2021.12.335

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4. **Maja Lezaja Zebic**, Bojan Dzeletovic and Vesna Miletic. Micro-tensile bond strength of universal adhesives to flat versus Class I cavity dentin with pulpal pressure simulation. *J Esthet Restor Dent*, 2018;30(3):240-248. https://doi.org/10.1111/jerd.12363

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5. Tamara Matic, **Maja Lezaja Zebic**, Vesna Miletic, Isaak Trajkovic, Milos Milosevic, Aleksandar Racic, Djordje Veljovic. Hydroxyapatite-based dental inserts: microstructure, mechanical properties, bonding efficiency and fracture resistance of molars with occlusal restorations. *J Biomed Mater Res B Appl Biomater* 2024; 112(1), e35331. 10.1002/jbm.b.35331.

   Kategorija M22; IF 2022=3,4

O kvalitetu i aktuelnosti najvažnijih istraživanja dr Maje Zebić svedoči činjenica da su rezultati istraživanja u kojima je kandidatkinja učestvovala objavljeni u prestižnim međunarodnim časopisima sa visokom impact faktorom.

U radu pod rednim brojem 1, kandidatkinja je bila deo multidisciplinarnog i internacionalnog tima. Učestvovala je u planiranju i dizajniranju studije, naročito „stomatološkog“ dela studije koji se odnosio na ispitivanje sinterovanih inserata i njihove veze koju ostvaruju sa restaurativnim

materijalima. Kandidatkinja je bila zadužena za izvođenje eksperimentalnog dela ispitivanja jačine veze smicanjem, obuku kandidata na doktoratu u pogledu protokola za aplikovanje adheziva i kompozita na inserte, samo izvođenje testa smicanja kao i na analizu i tumačenje svih rezultata, korigovanje drafta za publikovanje, pripremu grafika i slika za publikaciju.

U radu pod rednim brojem 2, kandidatkinja je osmislila studiju, izvela celokupan eksperimentalni deo pripreme uzoraka i merenje u saradnji sa naučnicima sa Instituta za fiziku, Univerziteta u Beogradu, uradila analizu i prikaz rezultata, pisala rad. Kandidatkinja je nosioc ovog rada, kao i prvi autor.

U radu pod rednim brojem 3, kandidatkinja je u navedenoj studiji bila deo multidisciplinarnog i internacionalnog tima. Učestvovala je u planiranju i dizajniranju studije, naročito „stomatološkog" dela studije koji se odnosio na ispitivanje sinterovanih inserata i njihove veze koju ostvaruju sa restaurativnim materijalima. Kandidatkinja je bila zadužen za izvođenje eksperimentalnog dela ispitivanja jačine veze smicanjem, obuku kandidata na doktoratu u pogledu protokola za aplikovanje adheziva i kompozita na inserte, samo izvođenje testa smicanja kao i na analizu i tumačenje rezultata, korigovanje drafta za publikovanje.

U radu pod rednim brojem 4, kandidatkinja je osmislila i sprovela celokupnu studiju. Sva merenja, analiza rezultata i pisanje inicijalne verzije rada, pripreme šema, takođe. Kandidatkinja je učestvovala i u osmišljavanju i izradi instalacije za simuliranje pulpnog pritiska.

U radu pod rednim brojem 5, kandidatkinja je učestvovala u planiranju i dizajniranju studije, naročito „stomatološkog "dela studije koji se odnosio na ispitivanje uticaja sinterovanih inserata na otpornost na lom zuba restaurisanih upotrebom inserata. Kandidatkinja je bila uključena i u analizu i tumačenje rezultata, korigovanje drafta za publikovanje.

4. PRIKAZ NAUČNIH RADOVA

U ovom delu izveštaja dat je kratak prikaz i analiza rezultata koji su objavljeni nakon izborau prethodno zvanje naučni saradnik.

⇒ Giuma Ayoub, Djordje Veljovic, **Maja Lezaja Zebic**, Vesna Miletic, Eriks Palcevskis, Djordje Janackovic. Composite nanostructured hydroxyapatite/yttrium stabilized zirconia dental inserts – The processing and application as dentin substitutes. *Ceramics International*, **2018**;44(15): 18200-18208. https://doi.org/10.1016/j.ceramint.2018.07.028

Studija se bavila sintezom i karakterizacijom keramike na bazi 80% hidroksiapatita i 20% jitrijumom stabilisane cirkonije. Modifikovanom precipitacionom metodom dobijen je prah hidroksiapatita, dok je praj jitrijumom stabilisane cirkonijem dobijen plazma metodom. Njihova mešavina je dalje izostatski presovana na 100 ili 400 Mpa, pa potom sinterovana na 1200, 1250,

1300 i 1325 °C da se dobiju sinterovane keramike u obliku tabletica koje se mogu koristiti kao dentalni inserti (umetci koji predstavljaju deo restauracije zuba). Svim navedenim insertima ispitan je fazni sastav, tvrdoća i otpornost na širenje pukotine, kao i jačina adhezivne veze koju inserti ostvaruju sa stomatološkim restaurativnim materijalnima, konkretnije sa Single Bond Universal adhezivom aplikovanim po self-etch ili total-etch protokolu, a kompozitom Filtek Z250 kao restaurativnim materijalom. Rezultati su pokazali da inserti postižu dobre mehaničke karakteristike, koje su u rangu mehaničkih karakteristika dentina i da sa restaurativnim materijalima ostvaruju jaku vezu, posebno ukoliko se koristi self-etch protokol aplikacije adheziva. Navedena studija je deo doktorske disertacije kandidata Giuma Ayoub sa Tehnološko-metalurškog fakulteta, Univerziteta u Beogradu.

⇒ **Maja Lezaja Zebic**, Branka Muric, Svetlana Savic-Sevic, Bojan Dzeletovic, Djordje Stratimirovic, Dejan Pantelic. "Real-time multispectral transmission of hard tooth tissues and dental composites with their heating." *Dental Materials*. **2023**;39:903-912. https://doi.org/10.1016/j.dental.2023.08.174

Navedena studija se bavila ispitivanjem transmisivnosti različitih talasnih dužina emitovanih novom lampom za polimerizaciju kompozita, tzv. Pinkwave, koja osim uobičajenih plave i ljubičaste svetlosti emituje i crveno i blisko infracrveno zračenje kroz različite kompozitne materijale (konvencionalne ili bulk-fill kompozite, sa kamforhinonom kao jedinim ili sa dodatnim fotoinicijatorom) debele 2 ili 4 mm i pri variranju položaja lampe prema samom kompozitnom uzorku. Transmisivnost je ispitana i na uzorcima zubnih tkiva. Transmisivnost je merena u realnom vremenu, dakle tokom fotoiniciranja i tokom polimerizacije, uz istovremeno merenje temperature materijala pomoću infracrvene kamere. Rezultati studije su pokazali da zračenje u opsegu crvene svetlosti ima značajno bolju transmisivnost u odnosu na uobičajeno korišćenu plavu svetlost odnosno da se zračenje manje redukuje sa povećanjem debljine uzorka. Promena položaja lampe u odnosu na uzorak remeti količinu emitovanog zračenja. Zubna tkiva dobro homogenuzuju emitovani snop ali ga drastično slabe. Navedena studija je deo doktorske disertacije kandidatkinje Tamare Matić sa Tehnološko-metalurškog fakulteta, Univerziteta u Beogradu.

⇒ Tamara Matic, **Maja Lezaja Zebic**, Vesna Miletic, Ivana Cvijovic-Alagic, Rada Petrovic, Djordje. Janackovic, Djordje Veljovic. Sr, Mg co-doping of calcium hydroxyapatite: Hydrothermal synthesis, processing, characterization and possible application as dentin substitutes. *Ceramics International*. 2022;48(8):11155-11165. https://doi.org/10.1016/j.ceramint.2021.12.335

Navedena studija bavila se hidrotermalnom sintezom praha hidroksiapatita sa dodatkom jona stroncijuma i magnezijuma, koji su dalje sinterovani u keramiku u cilju dobijanja inserata. Ispitan je fazni sastav, mikrostruktura, mehaničke osobine kao i jačina adhezivne veze smicanjem koju ostvaruju sa restaurativnim materijalima (Single Bond Universal aplikovan self-etch i total-etch protokolom uz kompozit Z250). Rezultati su pokazali da joni magnezijuma i stroncijuma stabilišu kristalnu rešetku i pomeraju temeraturu tranzicije βTCP-a u αTCP fazu ka višim temperaturama, što je povoljno, a osim toga utiču i na poboljšanje tvrdoće inserata. Jačina ostvarene adhezivne veze je bila dobra posebno kod adheziva aplikovanih po total-etch protokolu, što govori u prilog

mihkomehaničkom tipu veze. Navedena studija je deo doktorske disertacije kandidatkinje Tamare Matić sa Tehnološko-metalurškog fakulteta, Univerziteta u Beogradu.

⇒ **Maja Lezaja Zebic**, Bojan Dzeletovic and Vesna Miletic. Micro-tensile bond strength of universal adhesives to flat versus Class I cavity dentin with pulpal pressure simulation. *J Esthet Restor Dent*, 2018;30(3):240-248. https://doi.org/10.1111/jerd.12363

Navedena studija bavila se ispitivanjem jačine vezivanja univerzalnih adheziva (Ipera Bond i Single Bond Universal) sa dentinom, testom mikroistezanja inicijalno i nakon 6 meseci. Varirano je da li je restaurativni material aplikovan na ravno odsečen dentin ili u kavitet prve klase, kao i da li je tokom starenja od 6 meseci simuliran pulpni pritisak ili nije, pomoću za eksperiment posebno konstruisanog simulatora pritiska. Takođe se razlikovao i protocol aplikovanja adheziva (self-etch ili total-etch). Rezultati su pokazali da se total-etch protokolom inicijalno postižu više vrednosti jačine adhezije mikroistezanjem, međutim nakon 6 meseci to nije slučaj, odnosno uočeno je da su vrednosti korišćenjem totel-etch merene nakon 6 meseci bile niže, dok su za self-etch protocol ostale u istom rangu.Vrednosti kod uzorka sa restauracijom u kavitetu i sa simuliranim pulpnim pritiskom bile su niže u odnosu na vrednosti na ravno sečenom dentinu bez simuliranja pritiska, a obzirom da je način izvođenja ovakvog protokola klinički relevantniji, ukazuju na potrebu za korigovanjem načina ispitivanja jačine veze koji se uobičajeno koristi.

⇒ Giuma Ayoub, **Maja Lezaja Zebic**, Vesna Miletic, Rada Petrovic, Djordje Veljovic, Djordje Janackovic. Dissimilar sintered calcium phosphate dental inserts as dentine substitutes: Shear bond strength to restorative materials. *J Biomed Mater Res B Appl Biomater*, 2020;108(6):2461-2470. https://doi.org/10.1002/jbm.b.34578

Navedena studija bavila se ispitivanjem inserata dobijenih sinterovanjem na različite načine (nano-hidroksiapatit stabilizovan cirkonijom; dvostepeno sinterovani gusti hidroksiapatitni insert i jednofazno sinterovan porozni TCP-hidroksiapatitni insert). Ispitivana je mikrostruktura navedenih inserata, njihova tvrdoća, otpornost na širenje pukotine kao I jačina adhezivne veze za restaurativnima materijalima iz različitih kategorija (glas-jonomer cementi; adheziv+kompozit sistemi, autopolimerizujući cementi). Inserti su posedovali jako dobre mehaničke karakteristike, pri čemu su inserti dobijeni od dvostepeno sinterovanoh hidroksiapatita pokazali najbolju tvrdoću, a inserti sa dodatkom jitrijumom stabilizovane cirkonije najbolju otpornost na širenje pukotine. Inserti od dvostepeno sinterovanog hidroksiapatita su ostvarili najbolju vezu sa restaurativnim materijalima, pre svega sa sistemom adheziv/kompozit. Primena total-etch značajno je unapredila jačinu veze koju inserti ostvaruju sa autopolimerizujućim cementum (Maxcem), dok su za adhesive povoljniji rezultati za sva tri tipa inserata ostvareni primenom self-etch protokola. Najslabiju vezu sa inserima je ostvario glas-jonomer cement (Fuji VIII). Navedena studija deo je doktorske disertacije kandidata Giuma Ayoub sa Tehnološko-metalurškog fakulteta u Beogradu.

⇒ Tamara Matic, **Maja Lezaja Zebic**, Vesna Miletic, Isaak Trajkovic, Milos Milosevic, Aleksandar Racic, Djordje Veljovic. Hydroxyapatite-based dental inserts: microstructure, mechanical properties, bonding efficiency and fracture resistance of molars with occlusal restorations. *J Biomed Mater Res B Appl Biomater* 2024; 112(1), e35331. 10.1002/jbm.b.35331.

Navedena studija bavila se analizom hidroksiapatitnih inserata sa dodatkom jona stroncijuma i magnezijuma. Ispitivana je jačina adhezivne veze kao i uticaj korišćenja inserta kao dela restauracije prve klase kaviteta na ekstrahovanim umnjacima na ukupnu otpornost zuba na lom nakon termocikliranja, u odnosu na zub restaurasan samo kompozitnim ispunom. Jačina adhezivne veze sa MaxCem-om, Kompozitom povezanim bilo pomoću Single Bond Universal adheziva ili Clearfil Universal adheziva.

5. CITIRANOST RADOVA

Ukupna citiranost radova na Scopus-u do 09.07.2024 iznosi **155** heterocitata (sa autocitatima 170), a ***h-index*** **je 8**. Citiranost nakon izbora u naučnog saradnika (posle 2018. god) iznosi 132 heterocitata. Ukupna citiranost na Web of Science do 09.07.2024. iznosi 138 heterocitata (sa autocitatima 152), dok je *h-index* 7.

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6. KVALITATIVNI POKAZATELJI NAUČNO-ISTRAŽIVAČKOG RADA

Analiza naučno-istraživačkog rada nakon izbora u zvanje naučni saradnik pokazala je da dr Maja Zebić ispunjava i kvalitativne uslove za izbor u zvanje *viši naučni saradnik.*

Pokazatelji samostalnosti i uspeha u naučnom radu

Od početka karijere kandidat pokazuje samostalnost u naučno-istraživačkom radu, kao i izuzetne organizatorske sposobnosti, pronalaženje praktičnih rešenja za izvođenje eksperimenata kao i kreativnosti u načinu prezentovanja rezultata. Njeni dosadašnji rezultati predstavljaju značajan doprinos istraživanjima u oblasti stomatoloških materijala i restaurativne stomatologije i

kao takvi prepoznati su od strane međunarodne naučne zajednice o čemu svedoče podaci o citiranosti njenih publikacija. Više studija iz bibliografije su od početka do kraja osmišljeni, izvedeni i napisani od strane kandidatkinje.

Kandidatkinja je kao rukovodilac projekta konkurisala na dva poziva Fonda za nauku Republike Srbije, na pozivu PRIZMA i pozivu PROMIS 2, nažalost bez uspeha. U toku je i evaluacija dva predloga PATENTA, od kojih je jedan u potpunosti osmišljavala i pisala kandidatkinja.

Učešće na projektima

Kandidatkinja je bila zaposlena na projektu "Razvoj i primena metoda i materijala za monitoring novih zagađujućih i toksičnih organskih materija i teških metala" (ON172007), koji je finansiran od stane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije, u periodu od 2011-2019. godine, kojim je rukovodila prof. dr Mila Laušević sa Tehnološko-metalurškog fakulteta, odnosno na podprojektu "Uticaj toksičnih sastojaka na fizičko-mehaničke i biološke osobine stomatoloških restaurativnih materijala" kojim je rukovodila prof. dr Vesna Miletić.

Kandidatkinja je kao rukovodilac projekta pisala dve projektne prijave, nažalost bez prolaska za finansiranje, i to za poziv PRIZMA pod nazivom: "Objektivizacija i unapređenje *in-vitro* istraživanja u endodonciji i restaurativnoj stomatologiji sa razvojem novog uređaja" i za poziv PROMIS 2 pod nazivom: „Fotoaktivacija crvenim svetlom novih fotoinicijatorskih sistema i njihova primena u stomatološkim materijalima na bazi smola za dublju polimerizaciju".

Rukovođenje naučnim projektima, podprojektima i zadacima

U okviru projekta: „Razvoj i primena metoda i materijala za monitoring novih zagađujućih i toksičnih organskih materija i teških metala" (ON172007), koji je finansiran od stane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije, u periodu od 2011-2019. godine, dr Maja Zebić, naučni saradnik Stomatološkog fakulteta Univerziteta u Beogradu, rukovodila je realizacijom projektnog zadatka: „Poboljšanje restaurativnih materijala i procedura primenom hidroksiapatita" koji je uspešno izvršen.

Pedagoški rad

Kandidatkinja dr Maja Zebić je od završetka svoje doktorske disertacije bila uključena u obučavanje i rad sa mlađim doktorantima, Guimom Ayoub (zahvalnica u doktoratu) i Tamarom

Matić sa Tehnološko-metalurškog fakulteta (disertacija još nije odbranjena ali je kandidatkinja u komisiji za ocenu disertacije).

1. Članstvo u Komisiji za ocenu podobnosti teme za izradu doktorske disertacije kandidata Tamare Matić pod nazivom: ″Bioaktivni materijali na bazi kalcijum-fosfata i mezoporoznog biostakla dopiranih jonima magnezijuma i/ili stroncijuma: sinteza, procesiranje, karakterizacija i primena u biomedicini″, na sednici Nastavno-naučnog veća Tehnološko-metalurškom fakultetu Univerziteta u Beogradu 08.07.2021. Članovi komisije: Prof.dr Đorđe Janaćković, Prof.dr Rada Petrović, dr sci **Maja Zebić**; mentor Prof.dr Đorđe Veljović.

2. Članstvo u Komisiji za doktorsku disertaciju kandidata Giuma Khalifa Giuma Ayoub, M.Sc. pod nazivom ″Procesiranje, svojstva i primena dentalnih inserata na bazi kalcijum-fosfata i cirkonijum (IV)-oksida″ (The processing, properties and application of dental inserts based on calcium phosphates and zirconia) na Tehnološko-metalurškom fakultetu, Univerziteta u Beogradu, od 17.12.2021.Doktorska disertacija odbranjena 23.03.2022. Mentor: Prof. dr Đorđe Janaćković, članovi komisije Đorđe Janaćković, Prof.dr Đorđe Veljović, Prof. dr Rada Petrović, Prof. dr Vesna Miletić i dr sci **Maja Zebić**.

Ostalo

Kandidatkinja je bila recenzent u naučnim časopisima Journal of Functional Biomaterials (IF 5.0), Dentistry Journal (IF 2.5) and Biomolecules (IF 4.8).

7. TABELA SA KVANTITATIVNOM OCENOM NAUČNIH REZULTATA

VIŠI NAUČNI SARADNIK	POTREBNO	OSTVARENO
UKUPNO	50	66,0
M10+M20+M31+M32+M33+M41+M42 +M90	40	49,5
M11+M12+M21+M22+M23	30	43

8. MIŠLJENJE I ZAKLJUČAK KOMISIJE

Tokom dosadašnjih istraživanja dr Maja Zebić dala je značajan doprinos u oblasti ispitivanja restaurativnih materijala, posebno eksperimentalnih materijala mogifikovanih bioaktivnim komponentama, ali i drugih tema a u vezi sa restaurativnom stomatologijom. Kandidatkinja je na osnovu stečenog teorijskog znanja i eksperimentalnog iskustva pokazala sposobnost da samostalno planira i izvodi naučna istraživanja, kao i da učestvuje u razvoju mlađeg istraživačkog kadra.

Na osnovu detaljne analize naučno-istraživačkog rada dr Maje Zebić i prikazanih naučnih publikacija, Komisija je došla do zaključka da kandidat u potpunosti ispunjava uslove za izor u zvanje *viši naučni saradnik.* Predlažemo Nastavno-naučnom veću Stomatološkog fakulteta u Beogradu da prihvati ovaj Izveštaj i utvrdi predlog za izbor dr Maje Zebić u zvanje **viši naučni saradnik** za oblast Medicinske nauke.

Komisija:

_____

Prof. dr Miroslav Andrić
Stomatološki fakultet, Univerzitet u Beogradu, predsednik komisije

_____

Prof. dr Vitomir Konstantinović
Stomatološki fakultet, Univerzitet u Beogradu

_____

Prof. dr Dubravka Marković
Medicinski fakultet, Univerzitet u Novom Sadu