

Danijela Marović

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WORK EXPERIENCE

[01/10/2024 – Current] **Vice-Dean for Business, Infrastructure and Projects**

School of Dental Medicine, University of Zagreb

City: Zagreb | Country: Croatia

[07/06/2021 – Current] **Associate Professor**

Course leader:

2023 – now: Anesthesia in endodontics and restorative dental medicine, postgraduate specialist study (PSS) in endodontics and restorative dental medicine, University of Zagreb, School of Dental Medicine

2019 - now: Preclinical Restorative Dental Medicine, Dental Medicine Study Program in English, University of Zagreb, School of Dental Medicine, integrated undergraduate and graduate university study

2019 - now: Project, Integrated undergraduate and graduate university study of Dental Medicine, University of Zagreb, School of Dental Medicine, integrated undergraduate and graduate university study

Collaborator at the courses of the School of Dental Medicine in Zagreb

- Cariology (Croatian)
- Cariology (English)
- Preclinical restorative dental medicine (Croatian)
- Preclinical endodontics (Croatian)
- Preclinical endodontics (English)
- Career development in dentistry
- Restorative dentistry I (Croatian)
- Restorative dental medicine I (English)
- Restorative Dental Medicine II (English)
- Endodontics I (Croatian)
- Endodontics I (English)
- Preventive procedures of soft and hard tooth tissue therapy – PSS Endodontics and restorative dental medicine (Croatian)
- Materials in dental prosthetics - PSS Dental prosthetics (Croatian)
- Pre-prosthetic preparation of the patient – PSS Dental Prosthetics (Croatian)

School of Dental Medicine, University of Zagreb

City: Zagreb | Country: Croatia

[02/05/2016 – 07/06/2021] **Assistant Professor**

School of Dental Medicine, University of Zagreb

City: Zagreb | Country: Croatia

[06/03/2012 – 02/05/2016] **Post-doctoral student**

School of Dental Medicine, University of Zagreb

City: Zagreb | Country: Croatia

[01/10/2007 – 06/03/2012] **Scientific novice**

Dental Clinic Ksaver

City: Zagreb | Country: Croatia

[01/04/2007 – 01/10/2007] **Dentist**

EDUCATION AND TRAINING

[2012 – 2015] **Specialist in endodontics and restorative dental medicine**

Dental Clinic KBC Zagreb

City: Zagreb | Country: Croatia |

[2008 – 2012] **Doctoral study**

School of Dental Medicine, University of Zagreb

City: Zagreb | Country: Croatia | Field(s) of study: Health and welfare | Level in EQF: EQF level 8 | Thesis: The influence of fillers on certain chemical and mechanical properties of experimental composite resin materials based on amorphous calcium phosphate

[1999 – 2005] **Dentist**

Integrated undergraduate and graduate study, School of Dental Medicine, University of Zagreb

City: Zagreb | Country: Croatia |

LANGUAGE SKILLS

Mother tongue(s): Hrvatski

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

German

LISTENING B2 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

MS Office (Word Excel PowerPoint) | Internet | Komunikacijski programi (Skype Zoom TeamViewer)

Citations and h-index

- Total number of peer-reviewed publications: 68
- Total number of citations: 1217, h-index= 19 (Web of Science)
- Total number of citations: 1395, h-index= 22 (Scopus)
- Total number of citations: 2548, h-index= 28 (Google Scholar)
- Additional publications: 14 book chapters

Chapters in books

2025 Krmek Jukić S, ur. Preclinical endodontics. Chapter in the book: Marović D. Internal tooth anatomy, Medicinska naklada, Zagreb, pages 101-121, course Preclinical endodontics.

2025 Krmek Jukić S, ur. Preclinical endodontics. Chapter in the book: Marović D. Access cavity, Medicinska naklada, Zagreb, pages 122-137, course Preclinical endodontics.

2025 Krmek Jukić S, ur. Preclinical endodontics. Chapter in the book: Marović D. Root canal preparation, Medicinska naklada, Zagreb, pages 153-170, course Preclinical endodontics.

2023 Janković B, ed. Preclinical Restorative Dental Medicine. Chapter in the book: Marović D. Preparation of class II and V adhesive cavities and composite resin placement, Medicinska naklada, pages 83-105, course Preclinical Restorative Dental Medicine

2022 Vodanović M, Alt KW, ed. Essentials of Dental Medicine. Chapter in the book: Marović D. Cariology and other pathologies of dental hard tissues, Naklada Slap, Zagreb, pages 197-207, course Introduction to dentistry

2021 Tarle Z et al. Restorative dental medicine (in English). Chapter in the book: Marović D. Dental caries. Medicinska naklada, Zagreb, pages 66-101, course Restorative dental medicine I and Restorative dental medicine II

2021 Tarle Z et al. Restorative dental medicine (in English). Chapter in the book: Marović D. Dental trauma - diagnosis and treatment plan. Medicinska naklada, Zagreb, pages 102-110, course Restorative dental medicine I and Restorative dental medicine II

2019. Tarle Z et al. Restorative dentistry (in Croatian). Chapter in the book: Marović D. Dental caries. Medicinska naklada, Zagreb, pages 66-101, course Restorative Dental Medicine I and Restorative Dental Medicine

2019. Tarle Z et al. Restorative dentistry (in Croatian). Chapter in the book: Marović D. Dental traumas - Diagnosis and treatment plan. Medicinska naklada, Zagreb, pages 102-110, course Restorative Dental Medicine I and Restorative Dental Medicine II

2019. Lauc T, Čuković-Bagić I et al. Dental and craniofacial anthropology. Chapter in the book: Marović D. Pathological changes of teeth and surrounding tissues. Alfa, Zagreb, pages 157-165, course Dental Anthropology, Faculty of Philosophy.

2017. Krmek Jukić S, Baraba A, Klarić E, Marović D, Matijević J. Preclinical endodontics. Chapter in the book: Marović D. Morphology of endodontic space. Medicinska naklada, Zagreb, pages 69-83, course Preclinical Endodontics.

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2017. Krmek Jukić S, Baraba A, Klarić E, Marović D, Matijević J. Preclinical endodontics. Chapter in the book: Marović D. Access opening (trepanation opening). Medicinska naklada, Zagreb, pages 85-96, course Preclinical endodontics.

2017. Krmek Jukić S, Baraba A, Klarić E, Marović D, Matijević J. Preclinical endodontics. Chapter in the book: Marović D. Instrumentation of endodontic space. Medicinska naklada, Zagreb, pages 97-108, course Preclinical endodontics.

2015. Vodanović M, editor. Boric, Ratka; Brakus, Ivan Cigic, Livia; Caric, Ana; Dumancic, Jelena; Fugosic, Vesna; Gorseta, Kristina; Kosta, Vana; Marinovic Guic, Maja; Matosevic, Danijela et al. Hrvatsko stomatološko nazivlje, Zagreb: Institut za hrvatski jezik i jezikoslovlje, 2015.

Papers published in journals cited in Current Contents and Science Citation Index
[2025] Expanded

1. Profeta Krznar I, Meštrović S, Miler H, Marovic D, Tarle Z, Par M. Are Commercially Available Orthodontic Adhesive Systems Suitable for Rapid (3 s) High-Intensity Light Curing? Appl Sci. 2025; 15(14):7641. <https://doi.org/10.3390/app15147641>
2. Gajski P, Par M, Haugen HJ, Hildebrand T, Zheng K, Boccaccini AR, Tarle Z, Marovic D. Long-term water immersion of dental composites based on bioactive glass. Sci Rep. 2025 May 29;15(1):18857. doi: 10.1038/s41598-025-04143-9.
3. Marovic D, Par M, Daničić P, Marošević A, Bojo G, Alerić M, Antić S, Puljić K, Badovinac A, Shortall AC, et al. The Role of Rapid Curing on the Interrelationship Between Temperature Rise, Light Transmission, and Polymerisation Kinetics of Bulk-Fill Composites. International Journal of Molecular Sciences. 2025; 26(6): 2803. <https://doi.org/10.3390/ijms26062803>
4. Par M, Gotovac L, Horvat S, Marovic D, Tarle Z, Taubert TT, Attin T, Ratkovski L, Panduric V. Comparing ISO 4049 and Fourier-transform infrared spectroscopy for assessing ambient light sensitivity in dental resin composites. Sci Rep. 2025 Mar 12;15(1):8455. doi: 10.1038/s41598-025-93088-0 .

Papers published in journals cited in Current Contents and Science Citation Index
[2024] Expanded

1. Par M, Dukaric K, Marovic D, Taubert TT, Attin T, Tarle Z. E ffect of customized bioactive glass in experimental composites on dentin bond strength after 12 months of aging. Clin Oral Investig. 2024 Dec 18;29(1):19. doi: 10.1007/s00784-024-06108-0.
2. Badrov M, Marovic D, Tadin A. Antibiotics Knowledge and Prescription Patterns Among Dental Practitioners in Croatia, Bosnia and Herzegovina, and Serbia: A Comparative E-Survey with a Focus on Medically Healthy and Compromised

Patients. *Antibiotics* (Basel). 2024 Nov 8;13(11):1061. doi: 10.3390/antibiotics13111061.

3. Gajski P, Par M, Tarle Z, Marovic D. Effect of Silane-Containing Adhesives on Repair Bond Strength between Fresh and Aged Composite Materials—A Pilot Study. *Materials*. 2024; 17(18):4646. <https://doi.org/10.3390/ma17184646>
4. Marovic D, Haugen HJ, Par M, Linskens S, Mensikova E, Negovetic Mandic V, Leeuwenburgh S, Nogueira LP, Vallittu PK, Ma Q. Emerging technologies for the evaluation of spatio-temporal polymerisation changes in flowable vs. sculptable dental resin-based composites. *Dent Mater*. 2024 Sep 13:S0109-5641(24)00268-9. doi: 10.1016/j.dental.2024.09.002. Epub ahead of print. PMID: 39277487.
5. Haugen HJ, Ma Q, Linskens S, Par M, Mandic VN, Mensikova E, Nogueira LP, Taubock TT, Attin T, Gubler A, Leeuwenburgh S, de Beeck MO, Marovic D. 3D micro-CT and O-PTIR spectroscopy bring new understanding of the influence of filler content in dental resin composites. *Dent Mater*. 2024 Sep 13:S0109-5641(24)00267-7. doi: 10.1016/j.dental.2024.09.001.
6. Majstorović M, Babić Brčić S, Malev O, Par M, Živković I, Marcuš M, Tarle Z, Čož-Rakovac R, Marović D. Environmental implications of dental restorative materials on the zebrafish *Danio rerio*: Are dental chair drainage systems an emerging environmental threat? *Environ Toxicol Pharmacol*. 2024 Sep;110:104499. doi: 10.1016/j.etap.2024.104499.
7. Marovic D, Bota M, Tarle F, Par M, Haugen HJ, Zheng K, Pavić D, Miloš M, Čížmek L, Babić S, Čož-Rakovac R, Trebše P, Boccaccini AR. The influence of copper-doped mesoporous bioactive nanospheres on the temperature rise during polymerization, polymer cross-linking density, monomer release and embryotoxicity of dental composites. *Dental Materials*. 2024. doi: 10.1016/j.dental.2024.05.012.
8. Negovetic Mandic V, Plancak L, Marovic D, Tarle Z, Trutina Gavran M, Par M. Mechanical Properties of Alkasite Material with Different Curing Modes and Simulated Aging Conditions. *Materials* (Basel). 2024 Jun 6;17(11):2777. doi: 10.3390/ma17112777.
9. Klarić E, Bosnić JV, Par M, Tarle Z, Marovic D. One-Year Evaluation of High-Power Rapid Curing on Dentin Bond Strength. *Materials*. 2024; 17(10):2297. <https://doi.org/10.3390/ma17102297>

Papers published in journals cited in Current Contents and Science Citation Index
[2023] Expanded

1. Macan M, Marošević A, Špiljak B, Šimunović L, Par M, Marovic D, Juric-Kacunic D, Tarle Z. Proposition of New Testing Procedure for the Mechanical Properties of Bulk-Fill Materials. *Materials* (Basel). 2023 Jul 7;16(13):4868. doi: 10.3390/ma16134868.
2. Muradbegovic A, Par M, Panduric V, Zugec P, Taubock TT, Attin T, Tarle Z, Marovic D. Water-Induced Changes in Experimental Resin Composites Functionalized with Conventional (45S5) and Customized Bioactive Glass. *J Funct Biomater*. 2023 May 27;14(6):298. doi: 10.3390/jfb14060298.
3. Burrer P, Par M, Ferić L, Stanić M, Marovic D, Tarle Z, Attin T, Taubock TT. Effect of polymerization mode on shrinkage kinetics and degree of conversion of dual-curing bulk-fill resin composites. *Clin Oral Investig*. 2023 Jun;27(6):3169-3180. doi: 10.1007/s00784-023-04928-0.

4. Negovetic Mandic V, Par M, Marovic D, Rakić M, Tarle Z, Klarić Sever E. Blue Laser for Polymerization of Bulk-Fill Composites: Influence on Polymerization Kinetics. *Nanomaterials*. 2023; 13(2):303. <https://doi.org/10.3390/nano13020303>

Papers published in journals cited in Current Contents and Science Citation Index
[2022] Expanded

1. Munir A, Marovic D, Nogueira LP, Simm R, Naemi AO, Landrø SM, Helgerud M, Zheng K, Par M, Taubert TT, Attin T, Tarle Z, Boccaccini AR, Haugen HJ. Using Copper-Doped Mesoporous Bioactive Glass Nanospheres to Impart Anti-Bacterial Properties to Dental Composites. *Pharmaceutics*. 2022 Oct 20;14(10):2241. doi: 10.3390/pharmaceutics14102241.
2. Par M, Plančak L, Ratkovski L, Taubert TT, Marovic D, Attin T, Tarle Z. Improved Flexural Properties of Experimental Resin Composites Functionalized with a Customized Low-Sodium Bioactive Glass. *Polymers (Basel)*. 2022 Oct 12;14(20):4289. doi: 10.3390/polym14204289.
3. Marovic D, Par M, Taubert TT, Haugen HJ, Negovetic Mandic V, Wärich D, Burrer P, Zheng K, Attin T, Tarle Z, Boccaccini AR. Impact of Copper-Doped Mesoporous Bioactive Glass Nanospheres on the Polymerisation Kinetics and Shrinkage Stress of Dental Resin Composites. *Int J Mol Sci*. 2022 Jul 25;23(15):8195. doi: 10.3390/ijms23158195.
4. Carek A, Dukaric K, Miler H, Marovic D, Tarle Z, Par M. Post-Cure Development of the Degree of Conversion and Mechanical Properties of Dual-Curing Resin Cements. *Polymers (Basel)*. 2022 Sep 2;14(17):3649. doi: 10.3390/polym14173649.
5. Par M, Burrer P, Prskalo K, Schmid S, Schubiger AL, Marovic D, Tarle Z, Attin T, Taubert TT. Polymerization Kinetics and Development of Polymerization Shrinkage Stress in Rapid High-Intensity Light-Curing. *Polymers (Basel)*. 2022 Aug 12;14(16):3296. doi: 10.3390/polym14163296.
6. Marovic D, Par M, Posavec K, Marić I, Štajdohar D, Muradbegović A, Taubert TT, Attin T, Tarle Z. Long-Term Assessment of Contemporary Ion-Releasing Restorative Dental Materials. *Materials*. 2022; 15(12):4042. <https://doi.org/10.3390/ma15124042>

Papers published in journals cited in Current Contents and Science Citation Index
[2021] Expanded

1. Marovic D, Par M, Macan M, Klarić N, Plazonić I, Tarle Z. Aging-Dependent Changes in Mechanical Properties of the New Generation of Bulk-Fill Composites. *Materials*. 2022; 15(3):902. <https://doi.org/10.3390/ma15030902>
2. Par M, Spanovic N, Marovic D, Attin T, Tarle Z, Taubert TT. Rapid high-intensity light-curing of bulk-fill composites: A quantitative analysis of marginal integrity. *J Dent*. 2021;103708. doi: 10.1016/j.jdent.2021.103708.
3. Marovic D, Haugen HJ, Negovetic Mandic V, Par M, Zheng K, Tarle Z, Boccaccini AR. Incorporation of Copper-Doped Mesoporous Bioactive Glass Nanospheres in

4. Marovic D, Par M, Crnadak A, Sekelja A, Negovetic Mandic V, Gamulin O, Rakić M, Tarle Z. Rapid 3 s curing: What happens in deep layers of new bulk-fill composites? Materials (Basel). 2021;14(3):515. (CV p. 20)

Papers published in journals cited in Current Contents and Science Citation Index
[2020] Expanded

1. Par M, Marovic D, Attin T, Tarle Z, Tauböck TT. Effect of rapid high-intensity light-curing on polymerization shrinkage properties of conventional and bulk-fill composites. J Dent. 2020;101:103448.
2. Haugen HJ, Marovic D, Par M, Thieu MKL, Reseland JE, Johnsen GF. Bulk fill composites have similar performance to conventional dental composites. Int J Mol Sci. 2020;21(14):5136.
3. Par M, Marovic D, Attin T, Tarle Z, Tauböck TT. The effect of rapid high-intensity light-curing on micromechanical properties of bulk-fill and conventional resin composites. Sci Rep. 2020;10(1):10560.

Papers published in journals cited in Current Contents and Science Citation Index
Expanded from 2015-2019

1. Par M, Spanovic N, Bjelovucic R, Marovic D, Schmalz G, Gamulin O, Tarle Z. Long-term water sorption and solubility of experimental bioactive composites based on amorphous calcium phosphate and bioactive glass. Dent Mater J. 2019;38(4):555-564.
2. Bjelovucic R, Par M, Rubcic D, Marovic D, Prskalo K, Tarle Z. Antibiotic prescription in emergency dental service in Zagreb, Croatia - a retrospective cohort study. Int Dent J. 2019;69(4):273-280.
3. Par M, Repusic I, Skenderovic H, Sever EK, Marovic D, Tarle Z. Real-time light transmittance monitoring for determining polymerization completeness of conventional and bulk fill dental composites. Oper Dent. 2018;43(1):E19-E31.
4. Par M, Marovic D, Skenderovic H, Gamulin O, Klaric E, Tarle Z. Light transmittance and polymerization kinetics of amorphous calcium phosphate composites. Clin Oral Investig. 2017;21(4):1173-1182.
5. Tauböck TT, Marovic D, Zeljezic D, Steingruber AD, Attin T, Tarle Z. Genotoxic potential of dental bulk-fill resin composites. Dent Mater. 2017;33(7):788-795.
6. Marović D, Šariri K, Demoli N, Ristić M, Hiller KA, Škrtić D, Rosentritt M, Schmalz G, Tarle Z. Remineralizing amorphous calcium phosphate based composite resins: the influence of inert fillers on monomer conversion, polymerization shrinkage, and microhardness. Croat Med J. 2016;57(5):465-473.

7. Par M, Šantić A, Gamulin O, Marovic D, Moguš-Milanković A, Tarle Z. Impedance changes during setting of amorphous calcium phosphate composites. *Dent Mater.* 2016;32(11):1312-1321.
8. Tadin A, Galic N, Marovic D, Gavrilović L, Klaric E, Pejda S, Ugrin K, Zeljic D. Cytogenetic damage in exfoliated oral buccal cells by dental composites. *Am J Dent.* 2016;29(4):219-222.
9. Par M, Gamulin O, Marovic D, Skenderovic H, Klaric E, Tarle Z. Conversion and temperature rise of remineralizing composites reinforced with inert fillers. *J Dent.* 2016;48:26-33.
10. Kelić K, Matić S, Marović D, Klarić E, Tarle Z. Microhardness of bulk-fill composite materials. *Acta Clin Croat.* 2016;55(4):607-614.
11. Taubert TT, Tarle Z, Marovic D, Attin T. Pre-heating of high-viscosity bulk-fill resin composites: Effects on shrinkage force and monomer conversion. *J Dent.* 2015;43(11):1358-64.
12. Marovic D, Taubert TT, Attin T, Panduric V, Tarle Z. Monomer conversion and shrinkage force kinetics of low-viscosity bulk-fill resin composites. *Acta Odontol Scand.* 2015;73(6):474-80.
13. Tarle Z, Attin T, Marovic D, Andermatt L, Ristic M, Taubert TT. Influence of irradiation time on subsurface degree of conversion and microhardness of high-viscosity bulk-fill resin composites. *Clin Oral Investig.* 2015;19(4):831-40.
14. Par M, Gamulin O, Marovic D, Klaric E, Tarle Z. Raman spectroscopic assessment of degree of conversion of bulk-fill resin composites - changes at 24 hours post cure. *Oper Dent.* 2015;40(3):E92-E101.

Papers published in Current Contents and Science Citation Index Expanded from 2009-2015

1. Par M, Gamulin O, Marovic D, Klaric E, Tarle Z. Effect of temperature on post-cure polymerization of bulk-fill composites. *J Dent.* 2014;42(10):1255-60.
2. Marovic D, Tarle Z, Hiller KA, Mueller R, Rosentritt M, Skrtic D, Schmalz G. Reinforcement of experimental composite materials based on amorphous calcium phosphate with inert fillers. *Dent Mater.* 2014 Sep;30(9):1052-60.
3. Marovic D, Tarle Z, Hiller KA, Mueller R, Ristic M, Rosentritt M, Skrtic D, Schmalz G. Effect of silanized nanosilica addition on remineralizing and mechanical properties of experimental composite materials with amorphous calcium phosphate. *Clin Oral Invest.* 2014;18(3):783-92.

4. Tadin A, Galic N, Mladinic M, Marovic D, Kovacic I, Zeljezic D. Composite-induced toxicity in human gingival and pulpal fibroblast cells. *Acta Odontol Scand.* 2014;72(4): 304-11.

5. Marovic D, Tadin A, Mladinic M, Juric-Kacunic D, Galic N. In vitro detection of DNA damage in human leukocytes induced by combined effect of composite resins and adhesive systems. *Am J Dent.* 2014;27(1):35-41.

6. Tadin A, Galic N, Mladinic M, Marovic D, Kovacic I, Zeljezic D. Genotoxicity in gingival cells of patients undergoing tooth restoration with two different dental composite materials. *Clin Oral Investig.* 2014;18(1):87-96.

7. Marovic D, Panduric V, Tarle Z, Ristic M, Sariri K, Demoli N, Klaric E, Jankovic B, Prskalo K. Degree of conversion and microhardness of dental composite resin materials. *J Mol Struc.* 2013;1044:299-302.

8. Tadin A, Marovic D, Galic N, Milevoj A, Medvedec Mikic I, Zeljezic D. Genotoxic biomonitoring of flowable and non-flowable composite resins in peripheral blood leukocytes. *Acta Odontol Scand.* 2013;71(3-4):923-9

9. Prica D, Tadin A, Marovic D, Katunaric M, Prica A, Galic N. Effects of dental adhesives on micronuclei frequency in peripheral blood lymphocytes in vitro. *Acta Clin Croat.* 2013;52:309-15.

10. Marovic D, Matic S, Kelic K, Klaric E, Rakic M, Tarle Z. Time dependent accuracy of dental radiometers. *Acta Clin Croat.* 2013;52(2):173-80.

11. Tadin A, Galic N, Zeljezic D, Mikelic Vitasovic D, Marovic D, Kovacic I. Ex vivo evaluation of genotoxic effects of four dental adhesives on human leukocytes. *J Dent Sci.* 2013;8(1): 37-43. doi: 10.1016/j.jds.2012.12.001

12. Tarle Z, Knežević A, Matošević D, Škrtić D, Ristić M, Prskalo K, Musić S. Degree of vinyl conversion in experimental amorphous calcium phosphate composites. *J Mol Struc.* 2009;924-926:161-5.

13. Pandurić V, Tarle Z, Hameršak Z, Stipetić I, Matošević D, Negovetić-Mandić V, Prskalo K. Detection of HEMA in self-etching adhesive systems with high performance liquid chromatography. *J Mol Struc.* 2009;924-926: 358-60.

14. Lončar B, Mravak Stipetić M, Matošević D, Tarle Z. Ozone Application in Dentistry. *Arch Med Res.* 2009;40:136-7.

Papers published in journals cited in Medline, Pubmed, Scopus, Excerpta Medica ili u drugim odgovarajućim međunarodnim indeksnim publikacijama

1. Klarić N, Macan M, Par M, Zrinka Tarle Z, Marović D. Effect of Rapid Polymerization on Water Sorption and Solubility of Bulk-fill Composites. *Acta stomatol Croat.* 2022;56(3):235-245.

2. Demoli N, Vučić Z, Milat O, Gladić J, Lovrić D, Tarle Z, Pandurić V, Marović D, Moguš-Milanković A, Ristić M, Čalogović M. Optical approach in characterizing dental biomaterials. *Proceedings of SPIE, the International Society for Optical Engineering.* 2013;8792:87920G-1-87920G-12.

3. Janković B, Klarić E, Prskalo K, Marović D, Pandurić V, Tarle Z. Antimikrobni učinak intrakanalne primjene ozona. *Acta Stomatol Croat.* 2013;47(2):127-36.

4. Tarle Z, Marović D, Pandurić V. Contemporary concepts on composite materials. *Rad Hrvatske akademije znanosti i umjetnosti. Medicinske znanosti.* 2012;38:23-38.

5. Klarić E, Repić D, Marović D, Šaban Ž. Nekarijesne lezije zubi kod plivača. *Medix.* 2012;18(103):182-5.

6. Marović D, Tarle Z, Ristić M, Musić S, Škrtić D, Hiller KA, Schmalz G. Influence of different types of fillers on the degree of conversion of ACP composite resins. *Acta Stomatol Croat.* 2011;45(4):231-8.

7. Klarić E, Par M, Profeta I, Matošević D, Tarle Z. Postoperative sensitivity after two in-office bleaching methods. *Acta Stomatol Croat.* 2011;45(2):100-9.

8. Matošević D, Pandurić V, Janković B, Knežević A, Klarić E, Tarle Z. Light intensity of curing units in dental offices in Zagreb, Croatia. *Acta Stomatol Croat.* 2011;45(1):31-40.

9. Matošević D, Tarle Z, Miljanić S, Meić Z, Pichler L, Pichler G. The detection of carious lesion porphyrins using violet laser induced fluorescence. *Acta Stomatol Croat.* 2010;44(4):232-40.

10. Matošević D, Tarle Z, Miljanić S, Meić Z, Pichler L, Pichler G. Laser induced fluorescence of carious lesion porphyrins. *Acta Stomatol Croat.* 2010;44(2):82-9.

11. Mašek I, Matošević D, Jurić H, Meštrović S. Antimicrobial effect of chlorhexidine in orthodontic patients. *Acta Stomatol Croat.* 2008;42(1):41-8.

12. Gajski P, Dolenec D, Marović D. Polikromatski kompozitni ispun na prednjim zubima uporabom tehnike silikonskog ključa – prikaz slučaja. *Sonda.* 2021;21(39/40):52-54.

13. Šekelja A, Crnadak A, Par M, Marović D. Ramanova spektrometrija kao metoda mjerenja stupnja konverzije kompozitnih materijala. *Sonda.* 2021;21(39/40):55-57.

14. Miloš M, Pavić D, Marović D. Suvremeni debeloslojni (bulk-fill) kompoziti s ultra-kratkim vremenom polimerizacije. 2021;21(39/40):58-63.

15. Marovic D. Lakoća postavljanja uz nove izvore svjetlosti. Dental Tribune Croatian Ed. 2019;12(3):22-23.

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16. Marović D, Pandurić V, Šimić M, Tarle Z. Primjena bulk-fill kompozitnih materijala u restaurativnoj dentalnoj medicini. Vjesnik dentalne medicine. 2015;23(1):29-33.

17. Klarić E, Marović D. Izvori svjetlosti za polimerizaciju. Vjesnik dentalne medicine. 2012;14(5-6):39-42.

NETWORKS AND MEMBERSHIPS

- | | |
|--------------------|--|
| [2023 – Current] | Committee for Orofacial Diseases, Department of Medical Sciences, Croatian Academy of Sciences and Arts |
| [2022 – Current] | Croatian Association for Restorative Dental Medicine at Croatian Medical Association
Zagreb
First Vice-President |
| [2008 – Current] | Croatian Endodontic Society |
| [2008 – Current] | International Association for Dental Research |
| [2014 – Current] | Croatian Society for Minimal Interventional Dental Medicine |

CONFERENCES AND SEMINARS

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| [07/12/2023] | 4th Symposium Regenerative and restorative procedures in dental medicine, Croatian Academy of Sciences and Arts, Department of Medical Sciences and School of Dental Medicine, University of Zagreb
Zagreb, Croatia
Invited lecture "Monochromatic or polychromatic technique? Therapy plan for the direct restoration of anterior teeth", |
| [20/10/2023 – 21/10/2023] | Synergy of science and clinical work: VII. congress with the international participation
Zagreb
Invited lecture "One-shade diastema closure – myth or reality?" |
| [12/05/2023 – 13/05/2023] | Annual Congress of the Croatian Endodontic Society Zagreb
Invited lecture "Smile transformation with modern composite materials" |
| [24/03/2023 – 25/03/2023] | 9th International Congress of the School of Dental Medicine University of Zagreb
Dubrovnik, Croatia
Invited lecture "Smile design with composites: Simple solutions for complex aesthetic procedures" |

- [21/10/2022 – 22/10/2022] Synergy of science and clinical work: VI. congress with the international participation
Zagreb
Invited lecture "Tooth remodeling and diastema closure with composite materials: Simple solutions"
- [08/04/2022 – 09/04/2022] 8th International Congress of the School of Dental Medicine University of Zagreb
Rovinj, Croatia
Invited lecture "Incorporation of antimicrobial copper-doped mesoporous bioactive glass into resin composites"
- [22/10/2021 – 23/10/2021] Synergy of Science and Clinical Work - 5th Congress with International Participation
Zagreb
Invited lecture "Errors in endodontic therapy and how to correct them: Errors in the diagnosis and the access cavity preparation"
- [23/10/2020 – 24/10/2020] Synergy of Science and Clinical Work - IV. Congress with International Participation
Zagreb
Invited lecture "Errors in endodontic therapy and how to correct them: Errors in the diagnosis and the access cavity preparation"
- [24/10/2015 – 24/10/2015] Days of Restorative Dental Medicine and Endodontics II Zagreb
Invited lecture "The Future of Composite Materials"
- [21/09/2023 – 23/09/2023] CED/NOF IADR Oral Health Research Congress Rodos, Greece
Oralna prezentacija: Marovic D, Tarle F, Bota M, Par M, Haugen HJ, Zheng K, Babić S, Čož-Rakovac R, Čizmek L, Trebse P, Boccaccini AR. Embryotoxicity and Monomer Release From Copper-Doped Mesoporous Bioactive Glass Composites
- [15/09/2022 – 17/09/2022] PER-IADR Oral Health Research Congress Marseille, France
Oralna prezentacija: Marovic D, Simms R, Munir A, Zheng K, Par M, Boccaccini AR, Zrinka Tarle Z, Haugen HJ. Ion-Release and Antibacterial Properties of Composites with Copper-Doped Bioactive Glass
- [21/07/2021 – 25/07/2021] IADR/AADR/CADR General Session & Exhibition
Oral presentation: Marovic D, Par M, Haugen H, Negovetic Mandic V, Zheng K, Tarle Z, Boccaccini AR. Polymerization kinetics of composites with copper-doped mesoporous bioactive glass nanospheres
- [16/09/2021 – 18/09/2021] CED-IADR/NOF Oral Health Research Congress Brisel, Belgium
Oral presentation: Karlo Posavec, Matej Par, Visnja Negovetic Mandic, Vlatko Panduric, Zrinka Tarle, Danijela Marovic. Long-Term Investigation of Mechanical Properties of Bioactive Restorative Materials
- [19/09/2019 – 21/09/2019] IADR Continental European and Scandinavian Divisions Meeting Madrid, Spain
Oral presentation: Par M, Spanovic N, Gamulin O, Marovic D, Tarle Z. Degree of conversion of experimental composites based on bioactive glass.

PROJECTS

- [2025 – Current] Young Researchers Career Development Project - Training of New PhDs
(DOK-2025-02-1229)

Project Leader: Danijela Marović

Funding: Croatian Science Foundation

Role: Leader, PhD student mentor, research plan and implementation
- [2024 – Current] Next generation of dental composites: Integration of zinc-doped mesoporous
bioactive nanospheres to improve antibacterial properties (IP-2024-05-2884)

Project manager: Danijela Marović

Funding: Croatian Science Foundation

Role: manager, research plan and implementation, data processing and analysis, writing papers.
- [2023 – 2023] Evaluation of biological properties of experimental composite materials with
bioactive glasses

Project financed by University of Zagreb.

Role: manager, research plan and implementation, data processing and analysis, writing papers.
- [2022 – 2022] Evaluation of physicochemical properties of experimental composite materials with
bioactive glasses

Project financed by University of Zagreb.

Role: manager, research plan and implementation, data processing and analysis, writing papers.
- [2021 – 2021] Characterization of experimental composite materials with bioactive glasses

Project financed by University of Zagreb.

Role: manager, research plan and implementation, data processing and analysis, writing papers.
- [2020 – 2020] Influence of rapid polymerization with very high intensity light on modern bulk-fill
composites

Project financed by University of Zagreb.

Role: manager, research plan and implementation, data processing and analysis, writing papers.

- [2019 – 2019] Evaluacija fizičko-mehaničkih svojstava bioaktivnih restaurativnih materijala i njihov utjecaj na okoliš
Project financed by University of Zagreb.

Role: manager, research plan and implementation, data processing and analysis, writing papers.
- [2020 – Current] Biomimetic Intelligent Composite Materials
Project leader: prof.dr.sc. Zrinka Tarle

Funding: Croatian Science Foundation

Role: collaborator, development of work plan, budget planning, conducting research, analysis and interpretation of results, writing papers, writing reports.
- [2012 – 2015] Evaluation of new bioactive materials and procedures in restorative dentistry
Project leader: prof.dr.sc. Zrinka Tarle

Funding: Croatian Science Foundation

Role: collaborator, conducting research, analysis and interpretation of results, writing papers, writing reports.
- [2007 – 2014] Nanostructure of restorative materials and interactions with hard dental tissues
Project leader: prof.dr.sc. Zrinka Tarle

Funding: Ministry of Science, Education and Sports, Republic of Croatia.

Role: collaborator, research implementation, data processing and analysis, writing papers.
- [2009 – 2010] Croatian Dental Terminology - HRSTON, within the program "Building Croatian Vocational Terminology"
Project leader: prof.dr.sc. Marin Vodanović

Funding: National Foundation for Science, Higher Education and Technological Development of the Republic of Croatia

Role: associate, construction of professional terminology in the field of restorative dentistry and endodontics
- [2009 – 2010] Remineralizing Experimental Dental Composite Materials
Project leader: Danijela Marović

Role: leader, planning and implementation of research, data processing and analysis, writing papers

HONOURS AND AWARDS

- [2024] Award for the best rated teacher in the academic year 2022/2023 in the 4th year of study
Awarding institution: School of Dental Medicine, University of Zagreb
- [2023] Award for the best scientific work of the School of Dental Medicine, University of Zagreb in 2022
Awarding institution: School of Dental Medicine, University of Zagreb
- [2014] The best research fellow at the School of Dental Medicine in Zagreb in 2014 Awarding institution: School of Dental Medicine, University of Zagreb
- [2013] Second-best research fellow at the School of Dental Medicine University in Zagreb in 2013
Awarding institution: School of Dental Medicine University in Zagreb
- [2012] Recognition of the School of Dental Medicine in Zagreb for the best rated associate according to the results of the student survey for the academic year 2011/2012.
Awarding institution: School of Dental Medicine University in Zagreb
- [2012] 2nd CED IADR Robert Frank Competition for the poster "Hybrid Composite Resins Based on Amorphous Calcium Phosphate" in the Senior Basic Science Award category
Awarding institution: Central European Division of the International Association for Dental Research
- [2012] Central European Division Travel Stipend Award on the 6th International Association for Dental Research Pan-European Region Meeting (IADR/PER), Helsinki, Finland, September 12. - 15.
Awarding institution: Central European Division of the International Association for Dental Research
- [2010] Central European Division Travel Stipend Award on the IADR/AADR 88th General Session, Barcelona, Spain, July 14-17, 2010.
Awarding institution: Central European Division of the International Association for Dental Research
- [2005] Recognition of the School of Dental Medicine for the successful editing of the list, presentation and promotion of dental studies
Awarding institution: School of Dental Medicine, University of Zagreb
- [2004] Dental Progress Award Awarding institution: Ivoclar Vivadent
- The best poster presentation at the Dental Progress 2004 conference

MANAGEMENT SKILLS

- [2024 – Current] Vice-Dean for Business, Infrastructure and Projects
School of Dental Medicine, University of Zagreb

2023 – now a member of the Doctoral Study Committee of the School of Dental Medicine, University of Zagreb

2022- now Vice-president of the Croatian Association for Restorative Dental Medicine at Croatian Medical Association

2022 - now member of the Committee for Doctoral Theses of the University of Zagreb

2018 - now a member of the Committee for International Cooperation of the School of Dental Medicine, University of Zagreb

2018 - now a member of the Publishing Committee of the School of Dental Medicine, University of Zagreb

2015 - 2018 member of the Quality Control Committee of the School of Dental Medicine, University of Zagreb

ORGANISATIONAL SKILLS

[2021 – 2025] 7th-11th International Congress of the School of Dental Medicine, Zagreb, Croatia, member of the organizing committee

Organization of the student competition "The most beautiful restoration" of the School of Dental Medicine in Zagreb; Zagreb Croatia; 5/6/2021

5th International Congress of the School of Dental Medicine, Zagreb, Croatia, member of the organizing committee

2nd International Congress of the School of Dental Medicine, Zagreb, Croatia, member of the scientific committee

1st International Congress of the School of Dental Medicine, Zagreb, Croatia, member of the Scientific Committee