


# Curriculum Vitae (CV)

Personal Information:	
	<b><i>Mohsen Safaei</i></b>
	Date of birth: August 1981                      Nationality: Iran Marital status: Married                              Position: Assistant Professor
Contacts: Address: Advanced Dental Sciences Research Laboratory, School of Dentistry, Kermanshah University of Medical Sciences, Iran	
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Education & Publications:	
<b><u>Education:</u></b>	
<b>PhD in Nanobiotechnology</b> First rank with GPA 19.52 out of 20, Research and Course Oriented.	
<b>Degrees</b>	
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Ph.D	Razi University, Iran                      2013-2017
M.Sc	Gorgan University, Iran                      2007- 2010
B.Sc	Urmia University, Iran                      2000- 2004
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<b><u>Research interests:</u></b>	
Application of nanomaterials in dentistry Nanocomposites Optimized synthesis of nanostructures Nanotechnology-based mouthwash and toothpaste Polymers in dentistry Regenerative nanomaterials Scaffolds and biodegradable biomaterials in tissue engineering Nanostructures in oral medicine Green synthesis of nanomaterials	

### **Publications:**

37. Imani MM, **Safaei M**, Lopez-Jornet P, Lopez EP, Sadeghi M. Polymorphisms of ATP-binding cassette, sub-family A, member 4 (rs560426 and rs481931) and non-syndromic cleft lip/palate: A systematic review and meta-analysis. *Medicine*. 2019. (Accepted)
36. Taran M, Lotfi M, **Safaei M\***. Optimal conditions of levan biopolymer production and its use for the synthesis of novel levan-ZnO based nanocomposite as antibacterial. *Biotechnologia*. 2019. (Accepted)
35. **Safaei M**, Taran M, Imani MM, Moradpoor H, Rezaei F, Jamshidy L, Rezaei R. 2018. Preparation of cellulose-MgO nanocomposite: Characterization and antibacterial activity. *Pol J Chem Technol*. 2019. (Accepted)
34. Moradpoor H, **Safaei M\***, Rezaei F, Golshah A, Jamshidy L, Hatam R, Abdullah RS. Optimization of Cobalt Oxide Nanoparticles Synthesis as Bactericidal Agents. *Open Access Maced J Med Sci*. 2019. (Accepted)
33. Imani MM, **Safaei M**, Sadeghi M. Association between cystathionine beta-synthase c. 844ins68 polymorphism and risk of non-syndromic cleft lip/palate: A meta-analysis of family-based and case-control studies. *Int Orthod*. 2019. (Accepted)
32. Moradpoor H, Raissi S, Dehnavi MJ, **Safaei M\***. Factors affecting the learning of fixed prosthodontics course by students at Kermanshah university of medical sciences. *Open Access Maced J Med Sci*. 2019. (Accepted)
31. Darakhshan S, Malmir M, Bagheri F, **Safaei M**, Sharifi R, Sadeghi M, Hatami M, Mozaffari HR, Tahvilian R. The effects of pomegranate peel extract on recurrent aphthous stomatitis. *Curr Issues Pharm Med Sci*. 2019; 32(3):115–120.
30. **Safaei M\***, Taran M, Imani MM. Preparation, structural characterization, thermal properties and antifungal activity of alginate-CuO bionanocomposite. *Mater Sci Eng C*. 2019; 101:323–329.
29. Imani MM, **Safaei M**, Lopez-Jornet P, Sadeghi M. A systematic review and meta-analysis on protective role of forkhead box E1 (FOXE1) polymorphisms in susceptibility to non-syndromic cleft lip/palate. *Int Orthod*. 2019; 17(3):437–445.
28. Rezaei R, **Safaei M\***, Mozaffari HR, Moradpoor H, Karami S, Golshah A, Salimi B, Karami H. The Role of Nanomaterials in the Treatment of Diseases and Their Effects on the Immune System. *Open Access Maced J Med Sci*. 2019; 7(11):1884–1890.
27. **Safaei M\***, Taran M, Imani MM, Moradpoor H, Golshah A, Upadhyay P. In vitro evaluation of anticancer activity of synthesized sodium hyaluronate-titanium dioxide bionanocomposite. *Curr Issues Pharm Med Sci*. 2019; 32(2):99–103.
26. Mozaffari HR, Molavi M, Lopez-Jornet P, Sadeghi M, **Safaei M**, Imani MM, Sharifi R, Moradpoor H, Golshah A, Jamshidy L. Salivary and Serum Interferon-Gamma/Interleukin-4 Ratio in Oral Lichen Planus Patients: A Systematic Review and Meta-Analysis. *Medicina*. 2019; 55(6):257.

25. Sharifi R, Godiny M, Mozaffari HR, **Safaei M**, Hatam R, Veisi M. Effect of Topical Application of Dentol Drop on the Success of Inferior Alveolar Nerve Block for Teeth with Irreversible Pulpitis: A Double-blind Randomized Clinical Trial. *Iran Endod J*. 2019; 14(2):96–103.
24. Mozaffari HR, Zavattaro E, Saeedi M, Lopez-Jornet P, Sadeghi M, **Safaei M**, Imani MM, Nourbakhsh R, Moradpoor H, Golshah A, Sharifi R. Serum and salivary interleukin-4 levels in patients with oral lichen planus: A systematic review and meta-analysis. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2019; 128(2):123–131.
23. **Safaei M\***, Taran M, Rezaei R, Mansouri K, Mozaffari HR, Imani MM, Sharifi R. Synthesis and anticancer properties of bacterial cellulose-magnesium oxide bionanocomposite. *Curr Issues Pharm Med Sci*. 2019; 32(1):29–33.
22. Golshah A, Taran M, **Safaei M\***, Mozaffari HR, Imani MM, Sharifi R, Moradpoor H, Upadhyay P. Applying the Taguchi Method to the Optimization of Anticancer Activity of Bacterial Alginate-CuO Bionanocomposite. *Open Access Maced J Med Sci*. 2019; 7(1):1–5.
21. Imani MM, **Safaei M**, Afnaniesfandabad A, Moradpoor H, Sadeghi M, Golshah A, Sharifi R, Mozaffari HR. Efficacy of CPP-ACP and CPP-ACPF for Prevention and Remineralization of White Spot Lesions in Orthodontic Patients: a Systematic Review of Randomized Controlled Clinical Trials. *Acta Inform Med*. 2019; 27(3):199–204.
20. Sharifi R, Bahrampour E, Janfroozzade P, **Safaei M**, Mozaffari HR, Soltanimehr E, Moradpoor H, Imani MM. Comparative evaluation of the efficacy of three methods of delivery of calcium hydroxide into the root canal. *Dent Med Probl*. 2019; 56(2):155-159.
19. Imani MM, **Safaei M\***. Optimized Synthesis of Magnesium Oxide Nanoparticles as Bactericidal Agents. *J Nanotechnol*. 2019, 6063832.
18. Mozaffari HR, Zavattaro E, Abdolahnejad A, Lopez-Jornet P, Omidpanah N, Sharifi R, Sadeghi M, Shooriabi M, **Safaei M**. Serum and salivary IgA, IgG, and IgM levels in oral lichen planus: a systematic review and meta-analysis of case-control studies. *Medicina*. 2018; 54(6):99.
17. Sharifi R, Torabi A, Hatam R, Nikkerdar N, Mozaffari HR, **Safaei M\***, Amiri SM. The Effect of Gates-Glidden Drills on the Quality of Root Canal Treatment by Pre-Clinical Dental Students. *Open Access Maced J Med Sci*. 2018; 6(11):2193–2197.
16. **Safaei M\***, Taran M. Optimized synthesis, characterization, and antibacterial activity of an alginate–cupric oxide bionanocomposite. *J Appl Polym Sci*. 2018; 135:45682.
15. **Safaei M**, Karimi N, Alavi M, Taran M, Rezaei R . Application of nanomaterial in nutrition and food sciences. *J Adv Appl Sci Res*. 2017; 1(12): 1–16.
14. **Safaei M\***, Taran M. Fabrication, characterization, and antifungal activity of sodium hyaluronate-TiO<sub>2</sub> bionanocomposite against *Aspergillus niger*. *Mater Lett*. 2017; 207:113–116.
13. **Safaei M\***, Taran M. Optimal conditions for producing bactericidal sodium hyaluronate-TiO<sub>2</sub> bionanocomposite and its characterization. *Int J Biol Macromolec*. 2017; 104:449–456.

12. Alavi M, Karimi N, **Safaei M**. Application of various types of liposomes in drug delivery systems. *Adv Pharm Bull*. 2017; 7(1):3–9.
11. Taran M, Etemadi S, **Safaei M\***. Microbial levan biopolymer production and its use for the synthesis of antibacterial Fe<sub>3</sub>O<sub>4</sub>-levan nanocomposite. *J Appl Polym Sci*. 2017; 134:44613.
10. **Safaei M\***, Rezaei R, Boldaji F, Dastar B, Taran M, Hassani S. The effects of kaolin, bentonite and zeolite dietary supplementation on broiler chickens meat quality during storage. *Veterinary Sci Dev*. 2016; 6(1):6156.
9. **Safaei M\***, Boldaji F, Dastar B, Hassani S, Taran M, Economic analysis using silicate minerals in broiler chickens diets. *ABAH Bioflux*. 2014; 6:216–223.
8. **Safaei M\***, Jafariahangari Y, Mutalib MSA, Rezaei R. Evaluation usage of kaolin and zeolite in broiler diet on litter quality. *Asian J Anim Vet Adv*. 2014; 9:64–70.
7. **Safaei M\***, Boldaji F, Dastar B, Mutalib MSA, Hassani S, Rezaei R. Effects of inclusion kaolin, bentonite and zeolite in dietary on chemical composition of broiler chickens meat. *Asian J Anim Vet Adv*. 2014; 9:56–63.
6. **Safaei M\***, Boldaji F, Dastar B, Hassani S. Growth response and tibia bone characteristics in broilers fed diets containing kaolin, bentonite and zeolite. *J Anim Feed Sci*. 2012; 21:334–344.
5. **Safaei M\***, Boldaji F, Dastar B, Hassani S. The effect of dietary silicate mineral supplementation on apparent ileal digestibility of energy and protein in broiler chickens. *Int J Agric Biol*. 2012; 14:299–302.
4. **Safaei M\***, Jafariahangari Y, Baharlouei A, Shahi G. The efficacy of dietary inclusion of sodium bentonite on litter characteristics and some blood hormones in broiler chickens. *J Biol Sci*. 2011; 11:216–220.
3. **Safaei M\***, Jafariahangari Y, Baharlouei A, 2011. An evaluation on the effects of dietary kaolin and zeolite on broilers blood parameters, T4, TSH and growth hormones. *Pak J Nutr*. 2011; 10:233–237.
2. **Safaei M\***, Jafariahangari Y, Baharlouei A. Effects of dietary inclusion of sodium bentonite on biochemical characteristics of blood serum in broiler chickens. *Int J Agric Biol*. 2010; 12:877–880.
1. **Safaei M\***, Boldaji F, Dastar B, Hassani S. Effect of different levels of kaolin, bentonite and zeolite on broilers performance. *J Biol Sci*. 2010; 10:58–62.

### **Congresses:**

1. **Safaei M**, Rezaei R. Study of antibacterial activity of cobalt oxide nanoparticles synthesized by coprecipitation method. The 1<sup>st</sup> national conference on recent advances in engineering and modern sciences, 9 May 2018, IRIB international conference center, Tehran, Iran. (**Oral Presented**)

**2. Safaei M.** Challenges of using engineered nanomaterials on human health. The 1<sup>st</sup> national conference on recent advances in engineering and modern sciences, 9 May 2018, IRIB international conference center, Tehran, Iran. **(Oral Presented)**

**3. Safaei M.** Synthesis of magnesium oxides nanoparticles by coprecipitation method and evaluation of their antibacterial properties. The 1<sup>st</sup> national conference on recent advances in engineering and modern sciences, 9 May 2018, IRIB international conference center, Tehran, Iran. **(Oral Presented)**

**4. Safaei M.** Taran M. Rezaei R. Using Taguchi method to determine optimal conditions for synthesis of sodium hyaluronate-titanium dioxide bionanocomposite with the highest antifungal activity. National Conference on Nanotechnology Development, 7 March 2018, AKIAU, Golestan, Iran. **(Oral Presented)**

**5. Safaei M.** Investigating the application of nanoparticles in the treatment of cancer and their mechanisms of action. National Conference on Nanotechnology Development, 7 March 2018, AKIAU, Golestan, Iran.

**6. Safaei M.** Study of antibacterial properties of copper oxide nanoparticles synthesized by in-situ method. National Conference on Nanotechnology Development, 7 March 2018, AKIAU, Golestan, Iran.

### **Patent:**

**1.** Process of combination of kaolin in poultry dietary

Patent Reg. Book No: 61575

Statement Book Reg. No: 388070495

Patent Date: October 26, 2009

### **Books:**

**1. Safaei M,** Rezaei R. 2017. Nanosafety. Nowruzi Publishing, Gorgan, Golestan, Iran. p. 170. (In Persian)

**2. Safaei M,** Rezaei R. 2017. Applications of Nanotechnology in Life Sciences. Nowruzi Publishing, Gorgan, Golestan, Iran. p. 200. (In Persian)

**3. Rezaei R,** **Safaei M.** 2018. The Impact of Nanostructures on Immune System. Nowruzi Publishing, Gorgan, Golestan, Iran. p. 190. (In Persian)

### **Editorial board member:**

- *Advances in Bioscience and Bioengineering*
- *Acta Scientific Microbiology*

### Work Experiences Profile:

1. Assistant Professor, Kermanshah University of Medical Sciences (KUMS), 2018 until now.
2. Senior Deputy Vice-Chancellor, Shahid rezaei institute of higher education, 2016-2018.
3. Deputy Vice-Chancellor (student and research), Shahid rezaei institute of higher education, 2013–2016.
4. Researcher in Golestan Agricultural and Natural Resources Research Center, Gorgan, Iran. (2005 to 2010 Part time).

### Teaching Experiences:

1. Fundamentals of lasers in dentistry (KUMS)
2. Research methodology 2 (KUMS)
3. Advanced sciences in dentistry (KUMS)
4. Research Methods (Shahid rezaei institute of higher education)
5. Advanced Research Methods (Shahid rezaei institute of higher education)

### Skills & Interests

Persian: Native Language                      English: Good  
Good user of Qualitek-4 and SPSS Software in related statistical fields  
Research planning and project designing  
Good ability of team research working  
Working and learning many of techniques used in Nanobiotechnology  
Interests (Internet & Sports)

*References:* Available Upon Request