

Dental Materials Research Center Publications (2014)

1. Feiz A, Barekatin B, Khalesi S, Khalighinejad N, Badrian H, Swift EJ. Effect of several bleaching agents on teeth stained with a resin-based sealer. *Int Endod J* 2014; 47:3-9.
2. Alavi SH, Birang R, Hajizadeh F, Banimostafae H. Effect of bracket bonding with Er: YAG laser on nanomechanical properties of enamel. *Dent Res J (Isfahan)* 2014; 11: 49-55.
3. Sharifnabi A, Fathi MH, EftekhariYekta B, Hossainilipour M. The structural and bio-corrosion barrier performance of Mg-substituted fluorapatite coating on 316L stainless steel human body implant. *Appl Surf Sci* 2014; 288: 331–40.
4. Razavi M, Fathi MH, Savabi O, HashemiBenie B, Razavi MS, Vashae D, Tayebi L. Coating of biodegradable magnesium alloy bone implants using nanostructured diopside ($\text{CaMgSi}_2\text{O}_6$). *App Sur Sci* 2014; 288; 130–7.
5. Khalighinejad N, Barekatine B, Hasheminia SM, Gheibolahi H. In vitro evaluation of two methods of ultrasonic irrigation on marginal adaptation of MTA plugs in open apex teeth: A SEM analysis. *Indian J Dent Res* 2014; 25:69-72.
6. Mansouri M, Mohammadpour M, Khademi A, Khoroushi M. A review of the systemic fluoride in preventive dentistry. *J Isfahan Dent Sch* 2014; 10: 498-506.
7. Khoroushi M, Rafizadeh M, Samimi P. Bond strength of composite resin to enamel: assessment of two ethanol wet-bonding techniques. *J Dent (Tehran)* 2014; 11: 150-60.
8. Alavi SH, Mamavi T. Evaluation of load-deflection properties of fiber-reinforced composites and its comparison with stainless steel wires. *Dent Res J (Isfahan)* 2014; 11: 234-9.
9. Karamian E, Khandan A, Motamedi MR, Mirmohammadi H. Surface characteristics and bioactivity of a novel natural HA/Zircon nanocomposite coated on dental implants. *Biomed Res Int* 2014; 2014:410627.
10. Nejatidanesh F, Savabi O, Ebrahimi M, Savabi G. Retentive strength of implant-supported base metal copings over short metal abutments using different luting agents and surface treatments. *Implant Dent* 2014; 23:162-7.
11. Akhavan A, Nilchian F, Salehi A. Traumatic dental injuries and their follow-up in patients attending Isfahan Dental School during a 5-year period (2005-2011). *J Isfahan Dent Sch* 2014; 10: 53-66.
12. Sabouhi M, Khodaeian N, Ataei E, Kiani F. The effect of addition of calcium hypochlorite disinfectant on setting expansion and surface hardness of dental stone. *The Journal of Islamic Dental Association of IRAN (JIDA)* 2014; 26: 29-34.
13. Savabi O, SahraneshinSamani M, SahraneshinSamani A, Khoroushi M. An overview of application of CAD/CAM in dentistry (Part I). *J Isfahan Dent Sch* 2014; 10: 86-94.
14. Razavi M, Fathi MH, Savabi O, Razavi SM, HashemiBenie B, Vashaeeg D, Tayebi L. Controlling the degradation rate of bioactive magnesium implants by electrophoretic deposition of akermanite coating. *Ceram Int* 2014; 40: 3865–72.
15. Alavi S, Birang R, Hajizadeh F. Shear bond strength of orthodontic brackets after acid-etched and erbium-doped yttrium aluminum garnet laser-etched. *Dent Res J (Isfahan)* 2014; 11: 321-26.
16. Razavi M, Fathi MH, Savabi O, HashemiBeni B, Vashae D, Tayebi L. Surface microstructure and in vitro analysis of nanostructured akermanite ($\text{Ca}_2\text{MgSi}_2\text{O}_7$) coating on biodegradable magnesium alloy for biomedical applications. *Colloids Surf B Biointerfaces* 2014; 117: 432– 40.
17. Khoroushi M, Kachuei M. Pull-out bond strength of a self-adhesive resin cement to NaOCl-treated root dentin: effect of antioxidizing agents. *Restor Dent Endod (RDE)* 2014; 39: 95-103.
18. Savabi O, SahraneshinSamani M, SahraneshinSamani A, Khoroushi M. A review of CAD/CAM use in dentistry (part II): Comparison of intraoral digital scanners used in restorative dentistry. *J Isfahan Dent Sch* 2014; 4:163-75.

Dental Materials Research Center Publications (2014)

19. Razavi M, Fathi MH, Savabi O, Vashae D, Tayebid L. Micro-arc oxidation and electrophoretic deposition of nano-grain merwinite ($\text{Ca}_3\text{MgSi}_2\text{O}_8$) surface coating on magnesium alloy as biodegradable metallic implant. *Surf Interface Anal* 2014; 46: 387–92.
20. Shirani M, Mosharraf R, Shirany M. Comparisons of patient satisfaction levels with complete dentures of different occlusions: A randomized clinical trial. *J Prosthodont* 2014; 23: 259–66.
21. Motamedi MK, Behzadi A, Khodadad N, Zadeh AK, Nilchian F. Oral health and quality of life in children: A cross-sectional study. *Dent Hypotheses* 2014; 5:53–8.
22. Bazvand L, Aminozarbani MGH, Farhad A, Noormohammadi H, Hasheminia SM, Mobasherizadeh S. Antibacterial effect of triantibiotic mixture, chlorhexidine gel, and two natural materials propolis and aloe vera against *Enterococcus faecalis*: An ex vivo study. *Dent Res J (Isfahan)* 2014; 11:469–74.
23. Jabbari E, Savabi O, Nejatidanesh F. Use of pindex system in fabrication of the sectional custom tray. *J Prosthodont* 2014; 23: 417–9.
24. Mosharraf R, Zare S. Effect of the type of endodontic sealer on the bond strength between fiber post and root wall dentin. *J Dent (Tehran)* 2014; 11:455–63.
25. Rojaee R, Fathi MH, Raeissi K, Taherian MH. Electrophoretic deposition of bioactive glass nanopowders on magnesium based alloy for biomedical applications. *Ceram Int* 2014; 40:7879–88.
26. Ghasemi E, Khazaei S, Bajoghli F, Nasri N, Iranmanesh P. Stress distribution in luting cement layer in implant supported fixed partial dentures using finite element analysis. *Journal of Islamic Dental Association of Iran (JIDA)* 2014; 26: 131–36.
27. Tarighi P, Khoroushi M. A review on common chemical hemostatic agents in restorative dentistry. *Dent Res J (Isfahan)* 2014; 114: 423–8.
28. Mogharehabed A, Birang R, Torabinia N, Nasiri S, Behfarnia P. Socket preservation using demineralized freezed dried bone allograft with and without plasma rich in growth factor: A canine study. *Dent Res J (Isfahan)* 2014; 11: 460–8.
29. Khademi H, Torabinia N, Allameh M, JebreilamtiGH HR. Comparative evaluation of photodynamic therapy induced by two different photosensitizers in rat experimental candidiasis. *Dent Res J (Isfahan)* 2014; 11: 452–9.
30. Rojaee R, Fathi MH, Raeissi K, Sharifnabi A. Biodegradation assessment of nanostructured fluoridated hydroxyapatite coatings on biomedical grade magnesium alloy. *Ceram Int* 2014; 40: 15149–58.
31. Nejatidanesh F, Savabi O, Jabbari E. Effect of surface treatment on the retention of implant-supported zirconia restorations over short abutments. *J Prosthet Dent* 2014; 112:38–44.
32. Naeimi M, Fathi M, Rafienia M, Bonakdar S. Comparing the effect of silk fibroin-based scaffolds on differentiation of rabbit chondrocytes. *Journal of Isfahan Medical School* 2014; 32: 740–51.
33. Sayyedana FS, Fathi MH, Edris H, Doostmohammadi A, Mortazavi V, Hanifi A. Effect of forsterite nanoparticles on mechanical properties of glass ionomer cements. *Ceram Int* 2014; 40: 10743–48.
34. Razavi M, Fathi MH, Savabi O, Vashae D, Tayebi L. In vitro study of nanostructured diopside coating on Mg alloy orthopedic implants. *Mater SciEng C Mater BiolAppl* 2014; 41: 168–77.
35. Razavi M, Fathi MH, Savabi O, HashemiBeni B, Vashae D, Tayebi L. Nanostructured merwinitebioceramic coating on Mg alloy deposited by electrophoretic deposition. *Ceram Int* 2014; 40: 9473–84.
36. Mousavinasab SM, Khoroushi M, Moharreri M, Atai M. Temperature changes under demineralized dentin during polymerization of three resin-based restorative materials using QTH and LED units. *Restor Dent Endod (RDE)* 2014;

Dental Materials Research Center Publications (2014)

155-63.

37. Razavi M, Fathi M, Savabi O, Vashae D, Tayebi L. Biodegradable magnesium alloy coated by fluoridated hydroxyapatite using MAO/EPD technique. *Surf Eng* 2014; 30:545-51.
38. Taherian M, Rojaee R, Fathi MH, Tamizifar M. Effect of different sol-gel synthesis processes on microstructural and morphological characteristics of hydroxyapatite-bioactive glass composite nanopowders. *J AdvCeram* 2014, 3: 207–14.
39. Mohandes F, Salavati-Niasari M, Fereshteh Z, MH Fathi. Novel preparation of hydroxyapatite nanoparticles and nano rods with the aid of complexing agents. *Ceram Int* 2014; 40: 12227–33.
40. Razavi M, Fathi MH, Savabi O, Razavi SM, Heidari F, Vashae D, Tayebi L. In vivo study of nanostructured diopside (CaMgSi₂O₆) coating on magnesium alloy as biodegradable orthopedic implants. *Appl Surf Sci* 2014; 313: 60–66.
41. Torabinia N, Khalesi S. Clinicopathological study of 229 cases of salivary gland tumors in Isfahan population. *Dent Res J (Isfahan)* 2014; 11:559-63.
42. Razavian H, Barekatin B, Shadmehr E, Khatami M, Bagheri F, Heidari F. Bacterial leakage in root canals filled with resin-based and mineral trioxide aggregate-based sealers. *Dent Res J (Isfahan)* 2014; 11:599-603.
43. Mousavinasab SM, Barekatin M, Sadeghi E, Nourbakhshian F, Davoudi A. Evaluation of light curing distance and mylar strips color on surface hardness of two different dental composite resins. *Open Dent J* 2014; 8:144-7.
44. Eshghi A, Khoroushi M, Rezvani A. Resin bonding using etch-and-rinse and self-etch adhesives to decalcified deciduous enamel after bioactive glass air abrasion. *J Contemp Dent Pract* 2014; 15:595-602.
45. Razavian H, Javari Shehni R, Hasheminia SM, Heidari F. In vitro evaluation of the antifungal activity of five endodontic sealers. *J Isfahan Dent Sch* 2014; 10: 266 – 74.
46. Eshghi A, Khoroushi M, Rezvani A. Effect of bioactive glass air abrasion on shear bond strength of two adhesive resins to decalcified enamel. *J Dent (Tehran)* 2014; 11:644-54.
47. Panahi-Kalamuei M, Mohandes F, Mousavi-Kamazani M, Salavati-Niasari M, Fereshteh Z, Fathi MH. Tellurium nanostructures: Simple chemical reduction synthesis, characterization and photovoltaic measurements. *Mater SciSemicond Process* 2014; 27:1028–35.
48. Fereshteh Z, Fathi MH, Mozaffarinia R. Mg-doped fluorapatite nanoparticles-poly (ε-caprolactone) electrospun nanocomposite: Microstructure and mechanical properties. *Superlattices Microstruct* 2014; 75: 208–21.
49. Khoroushi M, Mazaheri H, Tarighi P, Samimi P, Khalighinejad N. Effect of antioxidants on push-out bond strength of hydrogen peroxide treated glass fiber posts bonded with two types of resin cement. *Restor Dent Endod* 2014; 39:303-9.
50. Naeimi M, Fathi MH, Rafienia M, Bonakdar Sh. Silk fibroin-chondroitin sulfate-alginate porous scaffolds: structural properties and in vitro studies. *J Appl Polym Sci* 2014;131; DOI: 10.1002/APP.41048.
51. Shirani F, Birang R, Malekipour MR, Hourmeh Z, Kazemi S. Shear bond strength of resin composite bonded with two adhesives: Influence of Er: YAG laser irradiation distance. *Dent Res J (Isfahan)* 2014; 11:689-94.
52. Razavi M, Fathi MH, Savabi O, Vashae D, Tayebi L. Improvement of biodegradability, bioactivity, mechanical integrity and cytocompatibilitybehavior of biodegradable Mg based orthopedic implants using nanostructured bredigite (Ca₇MgSi₄O₁₆) bioceramiccoated via ASD/EPD technique. *Ann Biomed Eng* 2014; 42:2537–50.
53. Hasheminia SM, Sadeghnejad H. Root canal filling techniques. *J Isfahan Dent Sch* 2014; 10: 391-407.

Dental Materials Research Center Publications (2014)

54. Hejazia MS, Ahmadian M, Meratian M, Fathi MH. Effect of alumina contents on phase stability and mechanical properties of magnesium fluorapatite/ alumina composites. *J MechBehav Biomed Mater* 2014; 40: 95–101.
55. Mohandes F, Salavati-Niasari M, Fathi MH, Fereshteh Z. Hydroxyapatite nanocrystals: Simple preparation, characterization and formation mechanism. *Mater SciEng C* 2014; 45: 29–36.
56. Mosharraf R, Abolhasani M, Givehchian P. A technique for relining bar-retained overdentures. *J ProsthetDent* 2014; 112:1591-4.
57. Salehi S, Fathi MH, HaghooyJavanmardSh, Bahners T, Gutmann JS, Ergeun S, Steuhl KP, Fuchsluger TA. Generation of PGS/PCL blend nanofibrous scaffolds mimicking corneal stroma structure. *Macromol Mater Eng* 2014; 299:455-69.
58. Razavi M, Fathi MH, Savabi O, Vashae D, Tayebi L. Biodegradation, bioactivity and in vivo biocompatibility analysis of plasma electrolytic oxidized (PEO) biodegradable Mg implants. *Phys Sci Int J* 2014; 4: 708-22.
59. Razavi M, Fathi MH, Savabi O, Vashae D, Tayebi L. In vitro evaluations of anodic spark deposited AZ91 alloy as biodegradable metallic orthopedic implant. *Annu Res Rev Biol* 2014; 4: 3716-33.
60. Moinzadeh AT, Mirmohammadi H, Veenema T, Kleverlaan CJ, Wesselink PR, Wu MK, Shemesh H. Effect of a two-step placement procedure on the dislocation resistance of a methacrylate resin-based root canal sealer: a proof of concept. *J Adhes Dent* 2014; 16:567-74.
61. Shokraneh A, Farhad AR, Farhadi N, Saatchi M, Hasheminia SM. Antibacterial effect of triantibiotic mixture versus calcium hydroxide in combination with active agents against *Enterococcus faecalis* biofilm. *Dent Mater J* 2014; 33:733-8.
62. Rojaee R, Fathi MH, Raeissi k. Comparing nanostructured hydroxyapatite coating on az91 alloy samples via sol-gel and electrophoretic deposition for biomedical applications. *Ieee T Nanobiosc* 2014; 13:409-14.