

Dental Materials Research Center Publications (2015)

1. Shirani F, Khalili H, Mehravaran M. Comparative evaluation of the effect of CPP-ACP and resin infiltration on brown spot color parameters after using 20% carbamide peroxide. *Journal of Islamic Dental Association of Iran (JIDA)* 2015; 26:285-93.
2. Sabouhi M, Nosouhian S, Dakhilalian M, Davoudi A, Mehrad R. The effect of time and storage environment on dimensional changes of acrylic resin post patterns. *Open Dent J* 2015; 9:87-90.
3. Kharaziha M, Fathi MH, Edris H, Nourbakhsh N, Talebi A, Salmanizadeh SH. PCL-forsterite nanocomposite fibrous membranes for controlled release of dexamethasone. *J Mater Sci Mater Med* 2015; 26:5364.
4. Ebadian B, Talebi S, Khodaeian N, Farzin M. Stress analysis of mandibular implant-retained overdenture with independent attachment system: effect of restoration space and attachment height. *Gen Dent* 2015; 63:61-7.
5. Monirifard M, Yaraghi N, Vali A, Vali A, Vali A. Radiographic assessment of third molars development and its relation to dental and chronological age in an Iranian population. *Dent Res J (Isfahan)* 2015; 12:64-70.
6. Mehdikhani-Nahrkhalaji M, Fathi MH, Mortazavi V, Mousavi SB, Akhavan A, Haghighat A, et al. Biodegradable nanocomposite coatings accelerate bone healing: In vivo evaluation. *Dent Res J (Isfahan)*. 2015; 12:89-99.
7. Ghasemi E, Abedian A, Iranmanesh P, Khazaei S. Effect of type of luting agents on stress distribution in the bone surrounding implants supporting a three-unit fixed dental prosthesis: 3D finite element analysis. *Dent Res J (Isfahan)* 2015; 12:57-63.
8. Sabouhi M, Bajoghli F, Abolhasani M. Evaluation of the three-dimensional accuracy of implant impression techniques in two simulated clinical conditions by optical scanning. *Int J Oral Maxillofac Implants* 2015; 30: 26-34.
9. Montazeri M, Karbasi S, Ferozghi MR, Monshi A, Ebrahimi-Kahrizsangi R. Evaluation of mechanical property and bioactivity of nanobioglass 45S5 scaffold coated with poly-3-hydroxybutyrate. *J Mater Sci Mater Med* 2015; 26:62.
10. Razavi M, Fathi MH, Savabi O, Vashae D, Tayebi L. In vivo assessments of bioabsorbable AZ91 magnesium implants coated with nanostructured fluoridated hydroxyapatite by MAO/EPD technique for biomedical applications. *Mater Sci Eng C Mater Biol Appl* 2015; 48:21-7.
11. Razavi M, Fathi MH, Savabi O, Vashae D, Tayebi L. In vitro analysis of electrophoretic deposited fluoridated hydroxyapatite coating on micro-arc oxidized az91 magnesium alloy for biomaterials applications. *Metall Mater Trans a* 2015; 46:1394-404.
12. Shadmehr E, Kiaani S, Mahdavian P. Nonsurgical endodontic treatment of a maxillary lateral incisor with dens invaginatus type II: A case report. *Dent Res J (Isfahan)*. 2015; 12:187-91.
13. Khademi AA, Amini K, Ghodsian B, Zahed SM, Teymori F, Shadmehr E. Removal efficiency of calcium hydroxide intracanal medicament with rinsEndo system in comparison with passive ultrasonic irrigation, an in vitro study. *Dent Res J (Isfahan)*. 2015; 12:157-60.
14. Khosravi K, Mousavinasab SM, Samani MS. Comparison of microleakage in Class II cavities restored with silorane-based and methacrylate-based composite resins using different restorative techniques over time. *Dent Res J (Isfahan)* 2015; 12:150-6.
15. Hosseini SN, Salimi Jazi H, Fathi MH. Novel electrophoretic deposited nanostructured forsterite coating on 316L stainless steel implants for biocompatibility improvement. *Mater Lett* 2015; 143:16-9.
16. Yaghini J, Mogharehabed A, Safavi N, Mohamadi M, Ashtiju F. Evaluation of the effect of low level laser therapy toothbrush in treatment of dentin hypersensitivity. *J Lasers Med Sci* 2015; 6: 85-91.

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17. Sharifnabi A, Eftekhari Yekta B, Fathi MH, Hossainipour M. Synthesis and characterization of nanosized magnesium-doped fluorapatite powder and coating for biomedical application. *J Sol-Gel Sci Technol* 2015; 74:66-77.
18. Hejazi MS, Meratian M, Ahmadian M, Fathi M. Effect of alumina amount on the bioactivity of dense magnesium fluorapatite/alumina composite in simulated body fluid (sbf) using taguchi method. *J Bioprocess Biotech* 2015; 5:1-5.
19. Latifi S M, Fathi MH, Varshosaz J, Ghochaghi N. Mechanisms controlling ca ion release from sol-gel derived in situ apatite-silica nanocomposite powder. *Ceram Silik* 2015; 59:64-9.
20. Latifi SM, Fathi M, Varshosaz J, Ghochaghi N. Simultaneous structural and surface modifications of nanophase hydroxyapatite for improving its dissolution and bioactivity. *Ceram Int* 2015; 42:6354-9.
21. Alavi S, Barooti S, Borzabadi-Farahani A. An in vitro assessment of the mechanical characteristics of nickel-titanium orthodontic wires in fluoride solutions with different acidities. *J Orthod Sci* 2015; 4:52-6.
22. Razavi M, Fathi MH, Savabi O, Vashae D, Tayebi L. In vivo study of nanostructured akermanite/PEO coating on biodegradable magnesium alloy for biomedical applications. *J Biomed Mater Res a* 2015; 103:1798-808.
23. Razavi M, Fathi MH, Savabi O, Vashae D, Tayebi L. In vivo biocompatibility of Mg implants surface modified by nanostructured merwinite/PEO. *J Mater Sci Mater Med* 2015; 26:184-91.
24. Mirzakouchehi P, Walter R, Khalighinejad N, Jahromi MZ, Mirsattari S, Akbarzadeh N. Effects of endodontic tri-antibiotic paste on bond strengths of dentin adhesives to coronal dentin. *Restor Dent Endod* 2015; 40:136-42.
25. Aliasghari A, Rabbani M, Khoroushi M, Emami H. In-vitro effect of alcoholic extract of rosa damascene extract on cariogenic streptococci. *Journal of Isfahan Medical School* 2015; 33:326-35.
26. Saatchi M, Abtahi M, Mohammadi G, Mirdamadi M, Binandeh E. The prevalence of dental anxiety and fear in patients referred to Isfahan Dental School, Iran. *Dent Res J (Isfahan)* 2015; 12:248-53.
27. Noorollahian S, Alavi S, Rafiei E. The effect of multiple processing and re-use on orthodontic mini-screw torque values. *Dent Res J (Isfahan)* 2015; 12:243-7.
28. Alavi S, Haerian A. The effects of aging process and preactivation on mechanical properties of nickel-titanium closed coil springs *Dent Res J (Isfahan)* 2015; 12:231-4.
29. Khorasgani MR, Aliasghari A, Khoroushi M. Comparison of methods for controlling dental caries in the classical medicine and alternative medical practices and future prospects. *Journal of Dental Medicine-Tehran University of Medical Sciences* 2015; 28:122-31.
30. Ebadian B, Mosharraf R, Khodaeian N. Finite element analysis of the influence of implant inclination on stress distribution in mandibular overdentures. *J Oral Implantol* 2015; 41:252-7.
31. Fereshteh Z, Fathi M, Mozaffarinia R. Synthesis and characterization of fluorapatite nanoparticles via a mechanochemical method. *J Cluster Sci* 2015; 26:1041-53.
32. Bajoghli F, Sabouhi M, Nosouhian S, Davoudi A, Behnamnia Z. comparing the accuracy of three different impression materials in making duplicate dies. *J Int Oral Health* 2015; 7:12-6.
33. Khodaei M, Meratiana M, Savabi O, Fathi MH. Comparative evaluation of the effect of different types of surface modifiers on bioactivity of porous titanium implants. *Russ J Non-Ferr Met* 2015; 56:469-76.
34. Fattahpour Sh, Shamanian M, Tavakoli N, et al. Design and optimization of alginate-chitosan-pluronic nanoparticles as a novel meloxicam drug delivery system. *J Appl Polymer Sci* 2015; 132: 42241.
35. Haghghat A, Jafari Z, Hasheminia D, Samandari MH, Safarian V, Davoudi A. Comparison of success rate and onset

Dental Materials Research Center Publications (2015)

time of two different anesthesia techniques. *Med Oral Patol Oral Cir Bucal* 2015; 20:e459-63.

36. Savabi G, Savabi O, Dastgheib B, Nejatidanesh F. Effect of the processing cycle on dimensional changes of heat-polymerized denture base resins. *Dent Res J (Isfahan)* 2015; 12:301-6.
37. Razavi SM, Torabinia N, Mohajeri MR, Shahriyary S, Ghalegolab S, Nouri S. Expression of Bcl-2 and epithelial growth factor receptor proteins in keratocystic odontogenic tumor in comparison with dentigerous cyst and ameloblastoma. *Dent Res J (Isfahan)* 2015; 12:342-7.
38. Shamloo N, Safi Y, Fathpour K, Yaghmaei M, Bahemmat N. Lower lip numbness due to the mandibular canal narrowing after dental reimplantation: A case report. *Dent Res J (Isfahan)* 2015; 12:386-8.
39. Kalantar Motamedi MR, Davoodi SH, Saeidi A, Barekatin B, Noormohammadi H, Razavian H. Technical quality of root canal therapies performed by novice dental students in preclinical practice. *Dent Res J (Isfahan)* 2015; 12:365-71.
40. Ebadian B, Mosharraf R, Abbasi S, Memar Ardestani P, Farzin M. The effect of implant angulation and splinting on stress distribution in implant body and supporting bone: A finite element analysis. *Eur J Dent* 2015 9: 311–18.
41. Samimi P, Hasankhani A, Matinlinna JP, Mirmohammadi H. Effect of adhesive resin type for bonding to zirconia using two surface pretreatments. *J Adhes Dent* 2015; 17:353-9.
42. Kheirkhah M, Fathi MH, Salimijazi MR, Razavi M. Surface modification of stainless steel implants using nanostructured forsterite (Mg₂SiO₄) coating for biomaterial applications. *Surf Coat Tech* 2015; 276:580–6.
43. Latifia SM, Fathi MH, Varshosaz J. The effect of acid and base catalysts on phase purity and dissolution behavior of sol-gel derived in situ silica coated apatite composite nanopowders. *Ceram Int* 2015; 41: 9476-81.
44. Nejatidanesh F, Amjadi M, Akouchekian M, Savabi O. Clinical performance of CEREC AC Bluecam conservative ceramic restorations after five years-A retrospective study. *J Dent* 2015; 43:1076-82.
45. Kalantar Motamedi MR, Heidarpour M, Siadat S, Kalantar Motamedi A, Bahreman AA. Orthodontic extraction of high-risk impacted mandibular third molars in close proximity to the mandibular canal: A Systematic Review. *J Oral Maxillofac Surg* 2015; 73:1672-85.
46. Razavi M, Fathi MH, Savabi O, Vashaeae D, Tayebid L. Regenerative influence of nanostructured bredigite (Ca₇MgSi₄O₁₆)/anodic spark coating on biodegradable AZ91 magnesium alloy implants for bone healing. *Mater Lett* 2015; 155:97–101.
47. Saidi R, Fathi MH, Salimijazi H. Fabrication and characterization of hydroxyapatite-coated forsterite scaffold for tissue regeneration applications. *Bull Mater Sci* 2015; 38:1367–74.
48. Fereshteh Z, Mallakpour F, Fathi MH, Mallakpour SH, Bagri A. Surface modification of Mg-doped fluoridated hydroxyapatite nanoparticles using bioactive amino acids as the coupling agent for biomedical applications. *Ceram Int* 2015; 41:10079-86.
49. Fereshteh Z, Nooeaid P, Fathi M, Bagri A, Boccaccini AR. The effect of coating type on mechanical properties and controlled drug release of PCL/zein coated 45S5 bioactive glass scaffolds for bone tissue engineering. *Mater Sci Eng C Mater Biol Appl* 2015; 54:50-60.
50. Fereshteh Z, Nooeaid P, Fathi MH, Bagri A, Boccaccini AR. Mechanical properties and drug release behavior of PCL/zein coated 45S5 bioactive glass scaffolds for bone tissue engineering application. *Data in Brief* 2015; 4:524-8.
51. Rafiei M, Sadeghian S, Torabinia N, Hajhashemi V. Systemic effects of fluoxetine on the amount of tooth movement, root resorption, and alveolar bone remodeling during orthodontic force application in rat. *Dent Res J (Isfahan)* 2015; 12:482-7.

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52. Alavi S, Abrishami A. Effect of electrical spot welding on load deflection rate of orthodontic wires. *Dent Res J (Isfahan)*. 2015; 12:438-42.
53. Mirmohammadi H, Mahdi L, Partovi P, Khademi A, Shemesh H, Hassan B. Accuracy of cone-beam computed tomography in the detection of a second mesiobuccal root canal in endodontically treated teeth: an ex vivo study. *J Endod* 2015; 41:1678-81.
54. Khoroushi M, Shirban F, Doustfateme S, Kaveh S. Effect of three nanobiomaterials on the surface roughness of bleached enamel. *Contemp Clin Dent* 2015; 6:466-70.
55. Hasheminia SM, Farhad AR, Saatchi M, Sadegh Nejad H, Sane M. Mechanical or cold lateral compaction: The incidence of dentinal defects. *Dent Res J (Isfahan)* 2015; 12: 513-9.
56. Khandan A, Karamian E, Mehdikhani-Nahrkhalaji M, Mirmohammadi H, Farzadi A, Ozada N, et al. Influence of spark plasma sintering and baghdadite powder on mechanical properties of hydroxyapatite. *Procedia Mater Sci* 2015; 11: 183-9.
57. Kouhi M, Prabhakaranb PM, Shamanian M, Fathi MH, Morshed M, Ramakrishna S. Electrospun PHBV nanofibers containing HA and bredigite nanoparticles: Fabrication, characterization and evaluation of mechanical properties and bioactivity. *Compos Sci Technol* 2015; 121:115-22.