

8. 生体材料学分野 : Department of Dental and Biomedical Materials Science

旧 歯科理工学講座 : Department of Dental Materials Science

研究業績

A : 原著論文 (欧文)

A-a : 学術雑誌に掲載された原著論文 (症例報告を含む)

注 : Impact Factor は () で括り最後尾へ

1. Shiraishi T, Miyoshi N, Johnson A, Shinozaki N: High-temperature oxidation behaviors and surface oxide color of Pd-free Au-Pt-based metal-ceramic alloys for dental applications. *Gold Bulletin* 50(2): 93-104, 2017 (IF: 1.638)
2. Khodaei M, Valanezhad A, Watanabe I: Controlled gentamicin- strontium release as a dual action bone agent: Combination of the porous titanium scaffold and biodegradable polymers, *Journal of alloys and compounds*, 720: 22-28, 2017 (IF: 3.133)
3. Khodaei M, Valanezhad A, Watanabe I, Yousefi R: Surface and mechanical properties of modified porous titanium scaffold, *Surface & Coatings Technology* 315: 61-66, 2017 (IF: 2.589)
4. Khoshzaban A, Rakhshan V, Najafi E, Aghajanpour L, Hashemian SJ, Heidari S, Watanabe I, Valanezhad A, Jafarzadeh T: Effect of sintering temperature rise from 870 to 920 °C on physicomechanical and biological quality of nano-hydroxyapatite: An explorative multi-phase experimental in vitro/vivo study, *Materials Science and Engineering C*, 77:142-150, 2017 (IF: 4.164)
5. Kamada K, Taira Y, Watanabe I, Sawase T. Evaluation of five primers and two opaque resins for bonding ceria-stabilized zirconia/alumina nanocomposite. *J Dent Sci.* 12(1):91-94. 2017 (IF: 0.488)

A-c : 著書・プロシーディングス等 (分担を含む)

- 1.

B : 原著論文 (邦文)

B-a : 学術雑誌に掲載された原著論文 (症例報告を含む)

- 1.

B-c : 著書・教科書・プロシーディングス等 (分担を含む)

1. 渡邊郁哉, 白石孝信:スタンダード歯科理工学—生体材料と歯科材料— 第6版, “第10章 歯科用金属材料 D. 熱処理, E. 歯科用合金”

B-d : 学内紀要 (各省庁等の研究助成金及び研究委託費による研究成果を含む)

1. 白石孝信, 湯蓋邦夫:骨代替用低弾性率チタン合金開発のための Ti-Nb 系合金の弾性的性質の検討. 平成 28 年度 東北大学金属材料研究所新素材共同研究開発センター共同利用研究報告書, p. 29-30, 2017

A : 学会発表 (国際学会/シンポジウムを含む)

A-a : 招待講演, 特別講演, 受賞講演

1. Watanabe I: Scholarly Activities at Baylor college of Dentistry and Nagasaki University of Tanta, International Dental Conference (TIDC), Tanta, Egypt, 2017 (招待講演)
2. Watanabe I: Laser in the Dentistry. 57th Exhibition and Congress of Iranian Dental Association (EXCIDA 57), Tehran, Iran, 2017 (招待講演)
3. Valanezhad A: Fabrication of a strongly adhered coating with high bone contact ratio on Ti dental implants. 57th Exhibition and Congress of Iranian Dental Association (EXCIDA 57), Tehran, Iran, 2017 (招待講演)
4. Valanezhad A: A novel method to prepare rough and bioactive coating on Zirconia dental implants. 57th Exhibition and Congress of Iranian Dental Association (EXCIDA 57), Tehran, Iran, 2017 (招待講演)

A-b : シンポジウム及び学会での一般講演 (ポスターを含む)

1. Davoodi A, Valanezhad A, Watanabe I, Shahabi S: Fabrication of a strongly adhered coating with high bone contact ratio on Ti dental implants. 57th Exhibition and Congress of Iranian Dental Association (EXCIDA 57), Tehran, Iran, May 15-18, 2017.
2. Jafarnia S, Valanezhad A, Shahabi S, Watanabe I: Mechanical properties, depth of cure and polymerization shrinkage in the short fiber reinforced composite. 57th Exhibition and Congress of Iranian Dental Association (EXCIDA 57), Tehran, Iran, May 15-18, 2017.
3. Khodaei M, Meratian, Valanezhad A, Pazarlioglu S, Salman S, Watanabe I: Effect of the Hardness of Spacer Agent on Structural Properties of Metallic Scaffolds. ICMSE 2017: 19th International Conference on Materials Science and Engineering, Zurich, Switzerland, April 20-21, 2017.

B : 国内の年会, 学会

B-a : 招待講演, 特別講演, 受賞講演

1. 白石孝信 : 歯科理工学と歩んだ 40 年を振り返る. 平成 29 年度日本歯科理工学会九州地方会夏期セミナー, 北九州, 2017 年 8 月 {プログラム} (特別講演)

B-b : シンポジウム及び学会での一般講演 (ポスターを含む)

1. Valanezhad A, Tashima Y, Watanabe I: Effect of hydrothermal treatment of TZ-3Y-E by yttrium nitrate on tetragonal-monoclinic transformation^[1]. 第70回日本歯科理工学会学術講演会, 新潟, 10月 {日本歯科理工学会誌, 36(5): p. 330, 2017}
2. He X, Valanezhad A, Watanabe I: New method for titanium oxide nano-structure formation on the zirconia implant. 第70回日本歯科理工学会学術講演会, 新潟, 10月 {日本歯科理工学会誌, 36(5): p. 391, 2017}
3. Kodama K, Valanezhad A, Murata H, Watanabe I: Characterization of calcium phosphate coated zirconia. 第70回日本歯科理工学会学術講演会, 新潟, 10月 {日本歯科理工学会誌, 36(5): p. 332, 2017}
4. Kodama K, Valanezhad A, Murata H, Watanabe I: Hydrothermal treatment of the zinc phosphate coated zirconia dental implants to formation of calcium phosphate coating. 第 69 回日本歯科理工学会学術講演会, 東京, 4月 {日本歯科理工学会誌, 36(2): p. 75, 2017}
5. Shahenda S, Valanezhad A, Abdel-Karim U, Abdalla A, Elkafrawy H, Watanabe I: Effect of application techniques on shrinkage stress of different composite resin materials. 第 69 回日本歯科理工学会学術講演会, 東京, 4月 {日本歯科理工学会誌, 36(2): p. 76, 2017}
6. Valanezhad A, Tashima Y, Watanabe I: New Method to Prevent Tetragonal-Monoclinic Transformation in Zirconia Implants. 第 69 回日本歯科理工学会学術講演会, 東京, 4月 {日本歯科理工学会誌, 36(2): p. 75, 2017}
7. Valanezhad A, Khodaei M, Watanabe I: Effect of thermal oxidation on the properties of porous titanium scaffold. 第 69 回日本歯科理工学会学術講演会, 東京, 4月 {日本歯科理工学会誌, 36(2): p. 102, 2017}
8. Jafarnia S, Valanezhad A, Shahabi S, Watanabe I: Physical, mechanical and biological properties of short-fiber reinforced composite. 第 69 回日本歯科理工学会学術講演会, 東京, 4月 {日本歯科理工学会誌, 36(2): p. 127, 2017}