Antonio Carlos Guastaldi

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5474525/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Electrochemical stability and corrosion resistance of Ti–Mo alloys for biomedical applications. Acta Biomaterialia, 2009, 5, 399-405. | 4.1 | 241 |
| 2 | Development of Ti–Mo alloys for biomedical applications: Microstructure and electrochemical characterization. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 452-453, 727-731. | 2.6 | 154 |
| 3 | Electrochemical impedance spectroscopy characterization of passive film formed on implant Ti–6Al–7Nb alloy in Hank's solution. Journal of Materials Science: Materials in Medicine, 2004, 15, 55-59. | 1.7 | 149 |
| 4 | Electrochemical behavior of Ti–Mo alloys applied as biomaterial. Corrosion Science, 2008, 50, 938-945. | 3.0 | 123 |
| 5 | Microstructure and corrosion resistance of inorganic–organic (ZrO2–PMMA) hybrid coating on stainless steel. Journal of Non-Crystalline Solids, 1999, 247, 164-170. | 1.5 | 85 |
| 6 | Surface modification of Ti dental implants by Nd:YVO4 laser irradiation. Applied Surface Science, 2007, 253, 9203-9208. | 3.1 | 84 |
| 7 | Biological Performance of Chemical Hydroxyapatite Coating Associated With Implant Surface Modification by Laser Beam: Biomechanical Study in Rabbit Tibias. Journal of Oral and Maxillofacial Surgery, 2009, 67, 1706-1715. | 0.5 | 65 |
| 8 | Evaluation of titanium implants with surface modification by laser beam: biomechanical study in rabbit tibias. Brazilian Oral Research, 2009, 23, 137-143. | 0.6 | 60 |
| 9 | Natural rubber latex coated with calcium phosphate for biomedical application. Journal of Biomaterials Science, Polymer Edition, 2015, 26, 1256-1268. | 1.9 | 47 |
| 10 | Natural rubber latex membranes incorporated with three different types of propolis: Physical-chemistry and antimicrobial behaviours. Materials Science and Engineering C, 2019, 97, 576-582. | 3.8 | 42 |
| 11 | Fosfatos de cálcio de interesse biológico: importância como biomateriais, propriedades e métodos de obtenção de recobrimentos. Quimica Nova, 2010, 33, 1352-1358. | 0.3 | 38 |
| 12 | Electrochemical stability of anodic titanium oxide films grown at potentials higher than 3V in a simulated physiological solution. Corrosion Science, 2007, 49, 1645-1655. | 3.0 | 36 |
| 13 | Estudo do biomaterial Ti-6Al-4V empregando-se técnicas eletroquÃmicas e XPS. Quimica Nova, 2002, 25, 10-14. | 0.3 | 35 |
| 14 | Effect of surface treatment on the bond strength between yttria partially stabilized zirconia ceramics and resin cement. Journal of Prosthetic Dentistry, 2014, 112, 357-364. | 1.1 | 35 |
| 15 | Analysis of Failed Commercially Pure Titanium Dental Implants: A Scanning Electron Microscopy and Energy-Dispersive Spectrometer X-Ray Study. Journal of Periodontology, 2005, 76, 1092-1099. | 1.7 | 31 |
| 16 | Laser ablation in titanium implants followed by biomimetic hydroxyapatite coating: Histomorphometric study in rabbits. Microscopy Research and Technique, 2012, 75, 940-948. | 1.2 | 30 |
| 17 | Commercially pure titanium implants with surfaces modified by laser beam with and without chemical deposition of apatite. Biomechanical and topographical analysis in rabbits. Clinical Oral Implants Research, 2013, 24, 896-903. | 1.9 | 29 |
| 18 | Biomimetic apatite formation on Ultra-High Molecular Weight Polyethylene (UHMWPE) using modified biomimetic solution. Journal of Materials Science: Materials in Medicine, 2009, 20, 1215-1222. | 1.7 | 28 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Adhesion strength characterization of PVDF/HA coating on cp Ti surface modified by laser beam irradiation. Applied Surface Science, 2012, 258, 10110-10114. | 3.1 | 28 |
| 20 | Comparative <i>in vivo</i> study of commercially pure Ti implants with surfaces modified by laser with and without silicate deposition: Biomechanical and scanning electron microscopy analysis. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 76-84. | 1.6 | 26 |
| 21 | Corrosion of dental amalgams: electrochemical study of Ag–Hg, Ag–Sn and Sn–Hg phases. Electrochimica Acta, 2001, 46, 3887-3893. | 2.6 | 25 |
| 22 | Physical, chemical and antimicrobial implications of the association of propolis with a natural rubber latex membrane. Materials Letters, 2017, 209, 39-42. | 1.3 | 25 |
| 23 | Laser weld: microstructure and corrosion study of Ag–Pd–Au–Cu alloy of the dental application. Materials Letters, 2003, 57, 1888-1893. | 1.3 | 23 |
| 24 | A comparative study of the corrosion of high copper dental amalgams. Materials Letters, 1998, 36, 148-151. | 1.3 | 22 |
| 25 | Comparison of crystallinity between natural hydroxyapatite and synthetic cp-Ti /HA coatings. Materials Research, 2005, 8, 207-211. | 0.6 | 22 |
| 26 | Skeletal stem cell and bone implant interactions are enhanced by LASER titanium modification. Biochemical and Biophysical Research Communications, 2016, 473, 719-725. | 1.0 | 22 |
| 27 | Surface physical chemistry properties in coated bacterial cellulose membranes with calcium phosphate. Materials Science and Engineering C, 2017, 75, 1359-1365. | 3.8 | 22 |
| 28 | Novel Chemically Modified Bacterial Cellulose Nanocomposite as Potential Biomaterial for Stem Cell Therapy Applications. Current Stem Cell Research and Therapy, 2014, 9, 117-123. | 0.6 | 22 |
| 29 | Corrosion behavior of a cobaltchromium-molybdenum alloy. Russian Journal of Electrochemistry, 2000, 36, 1117-1121. | 0.3 | 21 |
| 30 | In vivo evaluation of cp Ti implants with modified surfaces by laser beam with and without hydroxyapatite chemical deposition and without and with thermal treatment: topographic characterization and histomorphometric analysis in rabbits. Clinical Oral Investigations, 2017, 21, 685-699. | 1.4 | 21 |
| 31 | Corrosion of the component phases presents in high copper dental amalgams. Application of electrochemical impedance spectroscopy and electrochemical noise analysis. Corrosion Science, 2005, 47, 635-647. | 3.0 | 20 |
| 32 | Biomedical Ti–Mo Alloys with Surface Machined and Modified by Laser Beam: Biomechanical, Histological, and Histometric Analysis in Rabbits. Clinical Implant Dentistry and Related Research, 2013, 15, 427-437. | 1.6 | 20 |
| 33 | Surface and Biomechanical Study of Titanium Implants Modified by Laser With and Without Hydroxyapatite Coating, in Rabbits. Journal of Oral Implantology, 2012, 38, 231-237. | 0.4 | 19 |
| 34 | Novel Antimicrobial Peptides Bacterial Cellulose Obtained by Symbioses Culture Between Polyhexanide Biguanide (PHMB) and Green Tea. Journal of Biomaterials and Tissue Engineering, 2014, 4, 59-64. | 0.0 | 19 |
| 35 | Laser-modified titanium surfaces enhance the osteogenic differentiation of human mesenchymal stem cells. Stem Cell Research and Therapy, 2017, 8, 269. | 2.4 | 18 |
| 36 | Bioactive coating on titanium implants modified by Nd:YVO4 laser. Applied Surface Science, 2011, 257, 4575-4580. | 3.1 | 17 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Photo-electrochemical investigation of anodic oxide films on cast Ti–Mo alloys. I. Anodic behaviour and effect of alloy composition. Electrochimica Acta, 2009, 54, 1395-1402. | 2.6 | 16 |
| 38 | Histometric analysis and topographic characterization of <i>cp Ti</i> implants with surfaces modified by laser with and without silica deposition. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1677-1688. | 1.6 | 16 |
| 39 | Physicochemical, morphological, and biological analyses of Ti-15Mo alloy surface modified by laser beam irradiation. Lasers in Medical Science, 2019, 34, 537-546. | 1.0 | 15 |
| 40 | Bacterial Cellulose Biocomposites for Guided Tissue Regeneration. Science of Advanced Materials, 2014, 6, 2673-2678. | 0.1 | 14 |
| 41 | Nondecalcified Histologic Study of Bone Response to Titanium Implants Topographically Modified by Laser With and Without Hydroxyapatite Coating. International Journal of Periodontics and Restorative Dentistry, 2013, 33, 689-696. | 0.4 | 13 |
| 42 | Calcium phosphates nanoparticles: The effect of freeze-drying on particle size reduction. Materials Chemistry and Physics, 2020, 239, 122004. | 2.0 | 13 |
| 43 | Bacterial Cellulose/Chondroitin Sulfate for Dental Materials Scaffolds. Journal of Biomaterials and Tissue Engineering, 2014, 4, 150-154. | 0.0 | 13 |
| 44 | Physically Modified Bacterial Cellulose Biocomposites for Guided Tissue Regeneration. Science of Advanced Materials, 2015, 7, 1657-1664. | 0.1 | 13 |
| 45 | Dental Implants: Surface Modification of cp-Ti Using Plasma Spraying and the Deposition of Hydroxyapatite. Materials Science Forum, 2003, 416-418, 669-674. | 0.3 | 12 |
| 46 | Hydroxyapatite deposition study through polymeric process on commercially pure Ti surfaces modified by laser beam irradiation. Journal of Materials Science, 2009, 44, 4056-4061. | 1.7 | 12 |
| 47 | Calcium phosphates of biological importance based coatings deposited on Ti-15Mo alloy modified by laser beam irradiation for dental and orthopedic applications. Ceramics International, 2018, 44, 22432-22438. | 2.3 | 12 |
| 48 | Apatite coatings onto titanium surfaces submitted to laser ablation with different energy densities. Surface and Coatings Technology, 2009, 204, 399-403. | 2.2 | 10 |
| 49 | Bacterial cellulose for advanced medical materials. , 2016, , 57-82. | | 10 |
| 50 | Bacterial Cellulose Nanobiocomposites for Dental Materials Scaffolds. Journal of Biomaterials and Tissue Engineering, 2014, 4, 536-542. | 0.0 | 10 |
| 51 | Estudo da influência dos Ãons K+, Mg2+, SO4(2-) e CO3(2-) na cristalização biomimética de fosfato de cálcio amorfo (ACP) e conversão a fosfato octacálcico (OCP). Quimica Nova, 2007, 30, 892-896. | 0.3 | 9 |
| 52 | Desenvolvimento e caracterização de suportes porosos de polietileno de ultra alto peso molecular (PEUAPM) para utilização como biomaterial para reposição e regeneração óssea. Polimeros, 2008, 18, 277-280. | 0.2 | 8 |
| 53 | Bacterial Cellulose Biocomposites for Periodontology Treatment. Advanced Science, Engineering and Medicine, 2015, 7, 409-414. | 0.3 | 8 |
| 54 | Bacterial Cellulose Nanobiocomposites for Periodontal Disease. Journal of Bionanoscience, 2014, 8, 319-324. | 0.4 | 7 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Analyse titanium surface irradiated with laser, with and without deposited of durapatite. Acta Cirurgica Brasileira, 2006, 21, 57-62. | 0.3 | 7 |
| 56 | Corrosion of Dental Amalgams: Studies of Individual Phases. Key Engineering Materials, 2002, 230-232, 463-466. | 0.4 | 6 |
| 57 | Biomechanical Study in Polyurethane Mandibles of Different Metal Plates and Internal Fixation Techniques, Employed in Mandibular Angle Fractures. Journal of Craniofacial Surgery, 2014, 25, 2246-2250. | 0.3 | 6 |
| 58 | Sol–gel based calcium phosphates coatings deposited on binary Ti–Mo alloys modified by laser beam irradiation for biomaterial/clinical applications. Journal of Materials Science: Materials in Medicine, 2018, 29, 82. | 1.7 | 6 |
| 59 | Lower Susceptibility of Laser-irradiated Ti-15Mo Surface to Methicillin-resistant Staphylococcus aureus Cells Adhesion. Materials Research, 2019, 22, . | 0.6 | 6 |
| 60 | Aplicação de técnicas eletroquÃmicas no estudo da dissolução oxidativa da covelita (CuS) por Thiobacillus ferrooxidans. Quimica Nova, 2002, 25, 20-26. | 0.3 | 5 |
| 61 | Physically Modified Bacterial Cellulose Biocomposites for Dental Materials Scaffolds. Materials Focus, 2015, 4, 111-117. | 0.4 | 5 |
| 62 | Biomimetic calcium phosphates-based coatings deposited on binary Ti-Mo alloys modified by laser beam irradiation for biomaterial/clinical applications. MRS Advances, 2018, 3, 1711-1718. | 0.5 | 4 |
| 63 | Biomateriais: deposição de hidroxiapatita sobre superfÃcie de Ti-cp modificada por aspersão térmica. Quimica Nova, 2007, 30, 1129-1232. | 0.3 | 4 |
| 64 | Microestrutura e resistência à corrosão do Ti c.p. soldado a laser utilizando em prótese sobre implantes. Ecletica Quimica, 1999, 24, 113-124. | 0.2 | 4 |
| 65 | A new multiphase calcium phosphate graft material improves bone healing—An in vitro and in vivo analysis. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 2686-2704. | 1.6 | 4 |
| 66 | Potentialities and limitations of computer-aided design and manufacturing technology in the nonextraction treatment of Class I malocclusion. American Journal of Orthodontics and Dentofacial Orthopedics, 2021, 159, 86-96. | 0.8 | 3 |
| 67 | A comparative study of TIG and laser welded joints using commercial purity titanium used in prostheses supported by implants. Welding International, 2008, 22, 834-839. | 0.3 | 2 |
| 68 | Physical Chemistry Properties Influences in Bacterial Cellulose Biocomposites. Journal of Bionanoscience, 2017, 11, 573-577. | 0.4 | 2 |
| 69 | Comparative Evaluation of Implants with Different Surface Treatments Placed in Human Edentulous Mandibles: A 1-Year Prospective Study. Journal of Maxillofacial and Oral Surgery, 2022, 21, 815-823. | 0.6 | 2 |
| 70 | Caracterização e estudo da corrosão do amálgama dentário Dispersalloy por meio das técnicas de polarização potenciodinâmica e espectroscopia de impedância. Ecletica Quimica, 1997, 22, 101-119. | 0.2 | 2 |
| 71 | Effect of Yd:YAG laser irradiation on the shear bond strength of orthodontic metal brackets. Dental Press Journal of Orthodontics, 2020, 25, 28-35. | 0.2 | 2 |
| 72 | Investigation of the metal/porcelain interface in LASER-welded Ni–Cr–Mo alloyArticle based on a version presented at the XXXII CONSOLDA, Belo Horizonte, Minas Gerais, Brazil, 2–5 October 2006 Welding International, 2009, 23, 193-199. | 0.3 | 1 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Sol-gel based calcium phosphates coating deposited on Co-Cr-Ni-Mo alloys modified by laser beam irradiation for cardiovascular devices. Materials Today: Proceedings, 2019, 14, 663-670. | 0.9 | 1 |
| 74 | Synthesis by Wet Chemical Method of Different Phases of Apatites Applying Ultrasound. Journal of Bionanoscience, 2018, 12, 134-141. | 0.4 | 1 |
| 75 | Influence of the Application of Ultrasound During the Synthesis of Calcium Phosphates. Journal of Bionanoscience, 2018, 12, 733-738. | 0.4 | 1 |
| 76 | Preparation of Laser-Modified Ti-15Mo Surfaces With Multiphase Calcium Phosphate Coatings. Materials Research, 2020, 23, . | 0.6 | 1 |
| 77 | Resistência à corrosão das fases presentes em amálgamas dentários. Ecletica Quimica, 2001, 26, 125-142. | 0.2 | 1 |
| 78 | The Influence of the Heat Treatment Temperatures in Calcium Phosphate Synthesis. Journal of Biomaterials and Tissue Engineering, 2014, 4, 744-748. | 0.0 | 1 |
| 79 | A Study of the Microstructural Characteristics of Dental Amalgams. Materials Science Forum, 1998, 299-300, 298-299. | 0.3 | 0 |
| 80 | Evaluation of Procera/Porcelain Interface in Metal-Free Prosthesis. Materials Science Forum, 2005, 498-499, 606-611. | 0.3 | 0 |
| 81 | Topographic characterization of cp-Ti implants with machined and modified surface by LASER. Research, Society and Development, 2021, 10, e15910212217. | 0.0 | 0 |
| 82 | Study of Corrosion Resistance of Laser Welded Au-Pd-Ag-In Alloy Using Electrochemical Techniques. Materials Sciences and Applications, 2011, 02, 711-715. | 0.3 | 0 |
| 83 | Obtenção de fosfatos de cálcio pelo método biomimético sobre a superfÃcie da liga Ti-6Al-4V modificada pelo laser Nd:YAG. Revista Materia, 2013, 18, 1306-1312. | 0.1 | 0 |
| 84 | Calcium Phosphates of Interest Biological Coatings on Titanium Surfaces Modified by an Yb:YAG Laser Beam Irradiation. Materials Focus, 2015, 4, 129-133. | 0.4 | 0 |