

Seiji Yamaguchi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

1,319
citations

22
h-index

35
g-index

53
ext. papers

1,570
ext. citations

4.6
avg, IF

4.98
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 50 | Drug-Releasing Gelatin Coating Reinforced with Calcium Titanate Formed on Ti6Al4V Alloy Designed for Osteoporosis Bone Repair. <i>Coatings</i> , 2022 , 12, 139 | 2.9 | 2 |
| 49 | CaO-BO-SiO glass fibers for wound healing.. <i>Journal of Materials Science: Materials in Medicine</i> , 2022 , 33, 15 | 4.5 | 1 |
| 48 | Bioactivity and antibacterial activity of iodine-containing calcium titanate against implant-associated infection 2022 , 138, 212952 | | 3 |
| 47 | Bioactivation Treatment with Mixed Acid and Heat on Titanium Implants Fabricated by Selective Laser Melting Enhances Preosteoblast Cell Differentiation. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 2 |
| 46 | Bioactivity and antibacterial activity of strontium and silver ion releasing titanium. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 238-245 | 3.5 | 7 |
| 45 | study of antibacterial and osteogenic activity of titanium metal releasing strontium and silver ions. <i>Journal of Biomaterials Applications</i> , 2021 , 35, 670-680 | 2.9 | 7 |
| 44 | Osteoconductivity of bioactive Ti-6Al-4V implants with lattice-shaped interconnected large pores fabricated by electron beam melting. <i>Journal of Biomaterials Applications</i> , 2021 , 35, 1153-1167 | 2.9 | 5 |
| 43 | Optimizing the layer thickness of sol-gel-derived TiO coating on polyetheretherketone. <i>Scientific Reports</i> , 2021 , 11, 15875 | 4.9 | 1 |
| 42 | Iodine-Loaded Calcium Titanate for Bone Repair with Sustainable Antibacterial Activity Prepared by Solution and Heat Treatment. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 4 |
| 41 | Histological Evaluation of Porous Additive-Manufacturing Titanium Artificial Bone in Rat Calvarial Bone Defects. <i>Materials</i> , 2021 , 14, | 3.5 | 1 |
| 40 | The Use of Simulated Body Fluid (SBF) for Assessing Materials Bioactivity in the Context of Tissue Engineering: Review and Challenges. <i>Biomimetics</i> , 2020 , 5, | 3.7 | 28 |
| 39 | Competitive Surface Colonization of Antibacterial and Bioactive Materials Doped with Strontium and/or Silver Ions. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 15 |
| 38 | Bioactive effects of strontium loading on micro/nano surface Ti6Al4V components fabricated by selective laser melting. <i>Materials Science and Engineering C</i> , 2020 , 109, 110519 | 8.3 | 8 |
| 37 | Mechanical, Histological, and Scanning Electron Microscopy Study of the Effect of Mixed-Acid and Heat Treatment on Additive-Manufactured Titanium Plates on Bonding to the Bone Surface. <i>Materials</i> , 2020 , 13, | 3.5 | 6 |
| 36 | The protein corona determines the cytotoxicity of nanodiamonds: implications of corona formation and its remodelling on nanodiamond applications in biomedical imaging and drug delivery. <i>Nanoscale Advances</i> , 2020 , 2, 4798-4812 | 5.1 | 9 |
| 35 | Fast and effective osseointegration of dental, spinal, and orthopedic implants through tailored chemistry of inorganic surfaces 2020 , 337-377 | | |
| 34 | Biological impact of nanodiamond particles - label free, high-resolution methods for nanotoxicity assessment. <i>Nanotoxicology</i> , 2019 , 13, 1210-1226 | 5.3 | 5 |

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| 33 | Tri-Functional Calcium-Deficient Calcium Titanate Coating on Titanium Metal by Chemical and Heat Treatment. <i>Coatings</i> , 2019 , 9, 561 | 2.9 | 8 |
| 32 | Simulated body fluid and the novel bioactive materials derived from it. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 968-977 | 5.4 | 31 |
| 31 | Bioactive pedicle screws prepared by chemical and heat treatments improved biocompatibility and bone-bonding ability in canine lumbar spines. <i>PLoS ONE</i> , 2018 , 13, e0196766 | 3.7 | 4 |
| 30 | Osteogenic capacity of mixed-acid and heat-treated titanium mesh prepared by a selective laser melting technique.. <i>RSC Advances</i> , 2018 , 8, 26069-26077 | 3.7 | 4 |
| 29 | A critical review of multifunctional titanium surfaces: New frontiers for improving osseointegration and host response, avoiding bacteria contamination. <i>Acta Biomaterialia</i> , 2018 , 79, 1-22 | 10.8 | 198 |
| 28 | Improved bioactivity of GUMMETAL, TiNbTaZrO, via formation of nanostructured surfaces. <i>Journal of Tissue Engineering</i> , 2018 , 9, 2041731418774178 | 7.5 | 9 |
| 27 | Histologic Evaluation of Bone Regeneration using Titanium Mesh Prepared by Selective Laser Melting Technique. <i>Journal of Hard Tissue Biology</i> , 2017 , 26, 257-260 | 0.4 | 4 |
| 26 | Strontium and magnesium ions released from bioactive titanium metal promote early bone bonding in a rabbit implant model. <i>Acta Biomaterialia</i> , 2017 , 63, 383-392 | 10.8 | 46 |
| 25 | Impact of Surface Potential on Apatite Formation in Ti Alloys Subjected to Acid and Heat Treatments. <i>Materials</i> , 2017 , 10, | 3.5 | 4 |
| 24 | Two-in-One Biointerfaces-Antimicrobial and Bioactive Nanoporous Gallium Titanate Layers for Titanium Implants. <i>Nanomaterials</i> , 2017 , 7, | 5.4 | 32 |
| 23 | In vivo experimental study of anterior cervical fusion using bioactive polyetheretherketone in a canine model. <i>PLoS ONE</i> , 2017 , 12, e0184495 | 3.7 | 20 |
| 22 | Novel bioactive materials developed by simulated body fluid evaluation: Surface-modified Ti metal and its alloys. <i>Acta Biomaterialia</i> , 2016 , 44, 16-30 | 10.8 | 84 |
| 21 | Bioactivity of sol-gel-derived TiO ₂ coating on polyetheretherketone: In vitro and in vivo studies. <i>Acta Biomaterialia</i> , 2016 , 35, 305-17 | 10.8 | 54 |
| 20 | In vivo study of the early bone-bonding ability of Ti meshes formed with calcium titanate via chemical treatments. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 271 | 4.5 | 10 |
| 19 | Growth of Novel Ceramic Layers on Metals via Chemical and Heat Treatments for Inducing Various Biological Functions. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 176 | 5.8 | 20 |
| 18 | Bioactive titanate layers formed on titanium and its alloys by simple chemical and heat treatments. <i>Open Biomedical Engineering Journal</i> , 2015 , 9, 29-41 | 0.9 | 27 |
| 17 | Controlled release of strontium ions from a bioactive Ti metal with a Ca-enriched surface layer. <i>Acta Biomaterialia</i> , 2014 , 10, 2282-9 | 10.8 | 56 |
| 16 | Osteoinduction on acid and heat treated porous Ti metal samples in canine muscle. <i>PLoS ONE</i> , 2014 , 9, e88366 | 3.7 | 38 |

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| 15 | Bone bonding ability of a chemically and thermally treated low elastic modulus Ti alloy: gum metal. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 635-43 | 4.5 | 26 |
| 14 | Osteoconduction of porous Ti metal enhanced by acid and heat treatments. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 1707-15 | 4.5 | 21 |
| 13 | A bioactive Ti metal with a Ca-enriched surface layer releases Mg ions. <i>RSC Advances</i> , 2013 , 3, 11274 | 3.7 | 30 |
| 12 | Bone-bonding properties of Ti metal subjected to acid and heat treatments. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 2981-92 | 4.5 | 29 |
| 11 | Formation of a bioactive calcium titanate layer on gum metal by chemical treatment. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 873-83 | 4.5 | 29 |
| 10 | Apatite-forming ability of titanium in terms of pH of the exposed solution. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 2145-55 | 4.1 | 68 |
| 9 | Nanostructured positively charged bioactive TiO ₂ layer formed on Ti metal by NaOH, acid and heat treatments. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 1803-12 | 4.5 | 61 |
| 8 | Preparation of bioactive Ti-15Zr-4Nb-4Ta alloy from HCl and heat treatments after an NaOH treatment. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 97, 135-44 | 5.4 | 32 |
| 7 | Apatite-Forming Ability Governing Bone-Bonding of Ti-15Zr-4Nb-4Ta Alloy Subjected to Calcium Solution Treatment. <i>Key Engineering Materials</i> , 2011 , 493-494, 920-925 | 0.4 | |
| 6 | Bioactive Metals Prepared by Surface Modification: Preparation and Properties. <i>Modern Aspects of Electrochemistry</i> , 2011 , 377-421 | | |
| 5 | Novel Bioactive Titanate Layers Formed on Ti Metal and Its Alloys by Chemical Treatments. <i>Materials</i> , 2010 , 3, 48-63 | 3.5 | 51 |
| 4 | Positively charged bioactive Ti metal prepared by simple chemical and heat treatments. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 5, S503-13 | 4.1 | 97 |
| 3 | Apatite-forming ability of Ti-15Zr-4Nb-4Ta alloy induced by calcium solution treatment. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 439-44 | 4.5 | 42 |
| 2 | Bioactive Ti Metal and its Alloys Prepared by Chemical Treatments: State-of-the-Art and Future Trends. <i>Advanced Engineering Materials</i> , 2010 , 12, B579-B591 | 3.5 | 27 |
| 1 | Cross-sectional analysis of the surface ceramic layer developed on Ti metal by NaOH-heat treatment and soaking in SBF. <i>Journal of the Ceramic Society of Japan</i> , 2009 , 117, 1126-1130 | 1 | 53 |