

Seiji Yamaguchi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8840742/seiji-yamaguchi-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
49	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
48	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
47	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
46	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
45	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
44	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
43	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
42	Novel Bioactive Titanate Layers Formed on Ti Metal and Its Alloys by Chemical Treatments. <i>Materials</i> , 2010 , 3, 48-63	3.5	51
41	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
40	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
39	Osteoinduction on acid and heat treated porous Ti metal samples in canine muscle. <i>PLoS ONE</i> , 2014 , 9, e88366	3.7	38
38	Two-in-One Biointerfaces-Antimicrobial and Bioactive Nanoporous Gallium Titanate Layers for Titanium Implants. <i>Nanomaterials</i> , 2017 , 7,	5.4	32
37	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
36	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
35	A bioactive Ti metal with a Ca-enriched surface layer releases Mg ions. <i>RSC Advances</i> , 2013 , 3, 11274	3.7	30
34	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

33	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
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	Competitive Surface Colonization of Antibacterial and Bioactive Materials Doped with Strontium and/or Silver Ions. <i>Nanomaterials</i> , 2020 , 10,	5.4	15
24	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
23	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
22	Improved bioactivity of GUMMETAL, TiNbTaZrO, via formation of nanostructured surfaces. <i>Journal of Tissue Engineering</i> , 2018 , 9, 2041731418774178	7.5	9
21	Tri-Functional Calcium-Deficient Calcium Titanate Coating on Titanium Metal by Chemical and Heat Treatment. <i>Coatings</i> , 2019 , 9, 561	2.9	8
20	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
19	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
18	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
17	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
16	Biological impact of nanodiamond particles - label free, high-resolution methods for nanotoxicity assessment. <i>Nanotoxicology</i> , 2019 , 13, 1210-1226	5.3	5

15	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
14	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
13	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
12	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
11	Impact of Surface Potential on Apatite Formation in Ti Alloys Subjected to Acid and Heat Treatments. <i>Materials</i> , 2017 , 10,	3.5	4
10	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
9	Bioactivity and antibacterial activity of iodine-containing calcium titanate against implant-associated infection 2022 , 138, 212952		3
8	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
7	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
6	CaO-BO-SiO glass fibers for wound healing.. <i>Journal of Materials Science: Materials in Medicine</i> , 2022 , 33, 15	4.5	1
5	Optimizing the layer thickness of sol-gel-derived TiO coating on polyetheretherketone. <i>Scientific Reports</i> , 2021 , 11, 15875	4.9	1
4	Histological Evaluation of Porous Additive-Manufacturing Titanium Artificial Bone in Rat Calvarial Bone Defects. <i>Materials</i> , 2021 , 14,	3.5	1
3	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	
2	Bioactive Metals Prepared by Surface Modification: Preparation and Properties. <i>Modern Aspects of Electrochemistry</i> , 2011 , 377-421		
1	Fast and effective osseointegration of dental, spinal, and orthopedic implants through tailored chemistry of inorganic surfaces 2020 , 337-377		