

William A Brantley

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.

82
papers

2,634
citations

24
h-index

49
g-index

82
ext. papers

2,805
ext. citations

3
avg, IF

4.8
L-index

#	Paper	IF	Citations
82	Electrochemical impedance spectroscopy study of corrosion characteristics of palladium-silver dental alloys. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 1777-1786	3.5	2
81	Idealized force decay of orthodontic elastomeric chains follows Nutting Equation. <i>Medical Devices & Sensors</i> , 2021 , 4, e10145	1.6	
80	ICP-MS measurements of elemental release from two palladium alloys into a corrosion testing medium for different solution volumes and agitation conditions. <i>Journal of Prosthetic Dentistry</i> , 2021 ,	4	3
79	Nonlinear sensors for biomaterials Principles and applications. <i>Medical Devices & Sensors</i> , 2020 , 3, e10101	1.6	
78	Novel sensor to investigate microstructural contributions to corrosion of high-palladium dental alloys. <i>Medical Devices & Sensors</i> , 2020 , 3, e10060	1.6	2
77	Evolution, clinical applications, and prospects of nickel-titanium alloys for orthodontic purposes. <i>Journal of the World Federation of Orthodontists</i> , 2020 , 9, S19-S26	1.2	6
76	SEM study of simulated clinical use for four nickel-titanium rotary endodontic files. <i>Medical Devices & Sensors</i> , 2019 , 2, e10024	1.6	1
75	Micro-XRD and nanoindentation investigation of bioceramics for dental pulp therapy. <i>Medical Devices & Sensors</i> , 2019 , 2, e10027	1.6	
74	Fracture analysis of monolithic CAD-CAM crowns. <i>Journal of Esthetic and Restorative Dentistry</i> , 2019 , 31, 346-352	3.5	12
73	A study of fracture loads and fracture characteristics of teeth. <i>Journal of Advanced Prosthodontics</i> , 2019 , 11, 187-192	2.2	3
72	Distortion of CAD-CAM-fabricated implant-fixed titanium and zirconia complete dental prosthesis frameworks. <i>Journal of Prosthetic Dentistry</i> , 2018 , 119, 116-123	4	5
71	In vitro fit of CAD-CAM complete arch screw-retained titanium and zirconia implant prostheses fabricated on 4 implants. <i>Journal of Prosthetic Dentistry</i> , 2018 , 119, 409-416	4	15
70	Potentiodynamic polarization study of the corrosion behavior of palladium-silver dental alloys. <i>Journal of Prosthetic Dentistry</i> , 2018 , 119, 650-656	4	11
69	Comparison of 3D displacements of screw-retained zirconia implant crowns into implants with different internal connections with respect to screw tightening. <i>Journal of Prosthetic Dentistry</i> , 2018 , 119, 132-137	4	7
68	Wear characteristics and inhibition of enamel demineralization by resin-based coating materials. <i>European Journal of Oral Sciences</i> , 2017 , 125, 160-167	2.3	2
67	A load-to-fracture and strain analysis of monolithic zirconia cantilevered frameworks. <i>Journal of Prosthetic Dentistry</i> , 2017 , 118, 752-758	4	8
66	Differences between buccal and lingual bone quality and quantity of peri-implant regions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 60, 48-55	4.1	6

65	Reprint of Hydroxyapatite deposition on micropore-formed Ti-Ta-Nb alloys by plasma electrolytic oxidation for dental applications. <i>Surface and Coatings Technology</i> , 2016 , 307, 1152-1157	4.4	3
64	Hydroxyapatite deposition on micropore-formed Ti-Ta-Nb alloys by plasma electrolytic oxidation for dental applications. <i>Surface and Coatings Technology</i> , 2016 , 294, 15-20	4.4	14
63	Hydroxyapatite-silicon film deposited on TiNb ₁₀ Zr by electrochemical and magnetron sputtering method. <i>Thin Solid Films</i> , 2016 , 620, 114-118	2.2	11
62	Electrochemically-coated hydroxyapatite films on nanotubular TiNb alloys prepared in solutions containing Ca, P, and Zn ions. <i>Thin Solid Films</i> , 2016 , 620, 132-138	2.2	15
61	Highly ordered nanotubular film formation on Ti ₅ Nb ₅ Zr and Ti ₅ Ta ₅ Hf. <i>Thin Solid Films</i> , 2015 , 596, 94-100	2.2	4
60	Micro-X-Ray Diffraction Study of New Nickel-Titanium Rotary Endodontic Instruments. <i>Ceramic Transactions</i> , 2015 , 47-54	0.1	1
59	Surface morphology of Zn-containing hydroxyapatite (Zn-HA) deposited electrochemically on TiNb alloys. <i>Thin Solid Films</i> , 2015 , 587, 163-168	2.2	11
58	Comparison of the metal-to-ceramic bond strengths of four noble alloys with press-on-metal and conventional porcelain layering techniques. <i>Journal of Prosthetic Dentistry</i> , 2014 , 112, 1194-200	4	9
57	Morphology of hydroxyapatite nanoparticles in coatings on nanotube-formed TiNb ₁₀ Zr alloys for dental implants. <i>Vacuum</i> , 2014 , 107, 297-303	3.7	27
56	Metallurgical Characterization of Laser-Sintered Cobalt-Chromium Dental Alloy. <i>Ceramic Transactions</i> , 2014 , 11-20	0.1	
55	Hydroxyapatite precipitation on nanotube surfaces of Ti-35Ta-xNb alloys. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 7581-4	1.3	4
54	Hydroxyapatite formation on biomedical Ti ₅ Ta ₅ Zr alloys by magnetron sputtering and electrochemical deposition. <i>Thin Solid Films</i> , 2014 , 572, 119-125	2.2	24
53	Surface characteristics of hydroxyapatite coatings on nanotubular Ti ₅ Ta ₅ Zr alloys prepared by electrochemical deposition. <i>Surface and Coatings Technology</i> , 2014 , 259, 274-280	4.4	12
52	Hydroxyapatite precipitation on nanotubular films formed on Ti-6Al-4V alloy for biomedical applications. <i>Thin Solid Films</i> , 2013 , 549, 135-140	2.2	26
51	Formation of titanium dioxide nanotubes on Ti ₃₀ Nb ₇₀ Ta alloys by anodizing. <i>Thin Solid Films</i> , 2013 , 549, 141-146	2.2	24
50	Hydroxyapatite coating on micropore-formed titanium alloy utilizing electrochemical deposition. <i>Thin Solid Films</i> , 2013 , 549, 154-158	2.2	19
49	Hydroxyapatite thin film coatings on nanotube-formed Ti ₅ Nb ₁₀ Zr alloys after femtosecond laser texturing. <i>Surface and Coatings Technology</i> , 2013 , 217, 13-22	4.4	29
48	Surface characteristics of hydroxyapatite films deposited on anodized titanium by an electrochemical method. <i>Thin Solid Films</i> , 2013 , 546, 185-188	2.2	21

47	Surface morphology of TiN-coated nanotubular Ti ₅₀ Ta ₃₀ Zr alloys for dental implants prepared by RF sputtering. <i>Thin Solid Films</i> , 2013 , 549, 131-134	2.2	9
46	Silicon-substituted hydroxyapatite coating with Si content on the nanotube-formed TiNbZr alloy using electron beam-physical vapor deposition. <i>Thin Solid Films</i> , 2013 , 546, 189-195	2.2	17
45	Electrochemical and surface behavior of hydroxyapatite/Ti film on nanotubular Ti ₅₀ Nb ₃₀ Zr alloys. <i>Applied Surface Science</i> , 2012 , 258, 2129-2136	6.7	29
44	Viscoelastic properties of elastomeric chains: an investigation of pigment and manufacturing effects. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2012 , 141, 315-326	2.1	9
43	Effects of bonding materials on the mechanical properties of enamel around orthodontic brackets. <i>Angle Orthodontist</i> , 2012 , 82, 187-95	2.6	20
42	Effect of coating on properties of esthetic orthodontic nickel-titanium wires. <i>Angle Orthodontist</i> , 2012 , 82, 319-25	2.6	43
41	Mechanical properties, fracture surface characterization, and microstructural analysis of six noble dental casting alloys. <i>Journal of Prosthetic Dentistry</i> , 2011 , 105, 394-402	4	15
40	Comparisons of nanoindentation, 3-point bending, and tension tests for orthodontic wires. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2011 , 140, 65-71	2.1	36
39	Nanostructured thin film formation on femtosecond laser-textured Ti ₅₀ Nb ₃₀ Zr alloy for biomedical applications. <i>Thin Solid Films</i> , 2011 , 519, 4668-4675	2.2	22
38	Effects of a diamond-like carbon coating on the frictional properties of orthodontic wires. <i>Angle Orthodontist</i> , 2011 , 81, 141-48	2.6	37
37	Phenomena of nanotube nucleation and growth on new ternary titanium alloys. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 4684-9	1.3	17
36	Effect of mechanical properties of fillers on the grindability of composite resin adhesives. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2010 , 138, 420-426	2.1	16
35	The effect of metal recasting on porcelain-metal bonding: a force-to-failure study. <i>Journal of Prosthetic Dentistry</i> , 2010 , 104, 165-72	4	7
34	Micro-XRD and temperature-modulated DSC investigation of nickel-titanium rotary endodontic instruments. <i>Dental Materials</i> , 2009 , 25, 1221-9	5.7	38
33	Nanotubular oxide layer formation on Ti ₅₀ Nb ₃₀ Zr alloy as a function of applied potential. <i>Journal of Materials Science</i> , 2009 , 44, 3975-3982	4.3	49
32	Nanotube morphology changes for TiZr alloys as Zr content increases. <i>Thin Solid Films</i> , 2009 , 517, 5033-5037	2.2	60
31	Electrochemical characteristics of nanotubes formed on TiNb alloys. <i>Thin Solid Films</i> , 2009 , 517, 5038-5043	2.2	74
30	Metallurgical characterization of a new nickel-titanium wire for rotary endodontic instruments. <i>Journal of Endodontics</i> , 2009 , 35, 1589-93	4.7	144

29	Microstructural studies of 35 degrees C copper Ni-Ti orthodontic wire and TEM confirmation of low-temperature martensite transformation. <i>Dental Materials</i> , 2008 , 24, 204-10	5.7	19
28	Differential scanning calorimetry (DSC) and temperature-modulated DSC study of three mouthguard materials. <i>Dental Materials</i> , 2007 , 23, 1492-9	5.7	17
27	Fatigue limits and SEM/TEM observations of fracture characteristics for three Pd-Ag dental casting alloys. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 119-25	4.5	4
26	Vickers hardness investigation of work-hardening in used NiTi rotary instruments. <i>Journal of Endodontics</i> , 2006 , 32, 1191-3	4.7	17
25	SEM observations of nickel-titanium rotary endodontic instruments that fractured during clinical Use. <i>Journal of Endodontics</i> , 2005 , 31, 40-3	4.7	186
24	The measure of wear in N-vinyl pyrrolidinone (NVP) modified glass-ionomer cements. <i>Polymers for Advanced Technologies</i> , 2005 , 16, 113-116	3.2	21
23	Studies of orthodontic elastomeric modules. Part 1: glass transition temperatures for representative pigmented products in the as-received condition and after orthodontic use. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2004 , 126, 337-43	2.1	19
22	Temperature-modulated DSC provides new insight about nickel-titanium wire transformations. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2003 , 124, 387-94	2.1	43
21	Inductively coupled plasma-mass spectroscopy measurements of elemental release from 2 high-palladium dental casting alloys into a corrosion testing medium. <i>Journal of Prosthetic Dentistry</i> , 2002 , 87, 80-5	4	21
20	Potentiodynamic polarization study of the in vitro corrosion behavior of 3 high-palladium alloys and a gold-palladium alloy in 5 media. <i>Journal of Prosthetic Dentistry</i> , 2002 , 87, 86-93	4	22
19	Evaluation of high-temperature distortion of high-palladium metal-ceramic crowns. <i>Journal of Prosthetic Dentistry</i> , 2001 , 85, 133-40	4	22
18	Adhesion testing of a denture base resin with 5 casting alloys. <i>Journal of Prosthodontics</i> , 2000 , 9, 30-6	3.9	6
17	Effect of different high-palladium metal-ceramic alloys on the color of opaque porcelain. <i>Journal of Prosthodontics</i> , 2000 , 9, 71-6	3.9	17
16	Porcelain adherence vs force to failure for palladium-gallium alloys: a critique of metal-ceramic bond testing. <i>Dental Materials</i> , 1998 , 14, 112-9	5.7	52
15	Transmission electron microscopic investigation of high-palladium dental casting alloys. <i>Dental Materials</i> , 1997 , 13, 365-71	5.7	13
14	X-ray diffraction studies of oxidized high-palladium alloys. <i>Dental Materials</i> , 1996 , 12, 333-41	5.7	30
13	Differential scanning calorimetry (DSC) analyses of superelastic and nonsuperelastic nickel-titanium orthodontic wires. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 1996 , 109, 589-97	2.1	75
12	Metallurgical structure and microhardness of four new palladium-based alloys. <i>Journal of Prosthodontics</i> , 1996 , 5, 288-94	3.9	34

11	A three-dimensional finite element stress analysis of angled abutments for an implant placed in the anterior maxilla. <i>Journal of Prosthodontics</i> , 1995 , 4, 95-100	3.9	71
10	X-ray diffraction studies of as-cast high-palladium alloys. <i>Dental Materials</i> , 1995 , 11, 154-60	5.7	21
9	Porcelain adherence to high-palladium alloys. <i>Journal of Prosthetic Dentistry</i> , 1993 , 70, 386-94	4	39
8	Cobalt-chromium and nickel-chromium alloys for removable prosthodontics, Part 1: Mechanical properties. <i>Journal of Prosthodontics</i> , 1993 , 2, 144-50	3.9	31
7	Bending properties of superelastic and nonsuperelastic nickel-titanium orthodontic wires. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 1991 , 99, 310-8	2.1	66
6	Torsional and metallurgical properties of rotary endodontic instruments. 2. Stainless steel Gates Glidden drills. <i>Journal of Endodontics</i> , 1991 , 17, 319-23	4.7	20
5	An initial investigation of the bending and torsional properties of Nitinol root canal files. <i>Journal of Endodontics</i> , 1988 , 14, 346-51	4.7	724
4	Comparison of bending and tension tests for orthodontic wires. <i>American Journal of Orthodontics</i> , 1986 , 89, 228-36		61
3	Characterization of New Nickel-Titanium Wire for Rotary Endodontic Instruments. <i>Ceramic Transactions</i> , 47-57	0.1	0
2	Next-Generation Rotary Endodontic Instruments Fabricated from Special Nickel-Titanium Alloy. <i>Ceramic Transactions</i> , 11-18	0.1	2
1	Characterization of Next-Generation Nickel-Titanium Rotary Endodontic Instruments. <i>Ceramic Transactions</i> , 11-18	0.1	2