

# Owen Addison

## List of Publications by Year in descending order

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Version: 2024-02-01

96  
papers

2,499  
citations

201674

27  
h-index

233421

45  
g-index

100  
all docs

100  
docs citations

100  
times ranked

2841  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prosthetic complications during implant-based oral rehabilitation of patients with head and neck cancer. <i>Journal of Prosthetic Dentistry</i> , 2023, 129, 366-372.	2.8	1
2	Malignant Transformation Rate of Oral Submucous Fibrosis: A Systematic Review and Meta-Analysis. <i>Journal of Clinical Medicine</i> , 2022, 11, 1793.	2.4	17
3	Temperature-Dependence Corrosion Behavior of Ti6Al4V in the Presence of HCl. <i>Frontiers in Materials</i> , 2022, 9, .	2.4	8
4	Interconnectivity Explains High Canalicular Network Robustness between Neighboring Osteocyte Lacunae in Human Bone. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	3.6	8
5	Impurities in commercial titanium dental implants – A mass and optical emission spectrometry elemental analysis. <i>Dental Materials</i> , 2022, 38, 1395-1403.	3.5	8
6	Mechanisms of Atomization from Rotary Dental Instruments and Its Mitigation. <i>Journal of Dental Research</i> , 2021, 100, 261-267.	5.2	39
7	More than the Eye Can See: Shedding New Light on SARS-CoV-2 Lateral Flow Device-Based Immunoassays. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 25694-25700.	8.0	10
8	Engineered In vitro Models for Pathological Calcification: Routes Toward Mechanistic Understanding. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2100042.	3.6	2
9	Repeated exposure of nosocomial pathogens to silver does not select for silver resistance but does impact ciprofloxacin susceptibility. <i>Acta Biomaterialia</i> , 2021, 134, 760-773.	8.3	1
10	A feasible route for the design and manufacture of customised respiratory protection through digital facial capture. <i>Scientific Reports</i> , 2021, 11, 21449.	3.3	4
11	Photo-polymerisation variables influence the structure and subsequent thermal response of dental resin matrices. <i>Dental Materials</i> , 2020, 36, 343-352.	3.5	9
12	Distribution and Chemical Speciation of Exogenous Micro- and Nanoparticles in Inflamed Soft Tissue Adjacent to Titanium and Ceramic Dental Implants. <i>Analytical Chemistry</i> , 2020, 92, 14432-14443.	6.5	29
13	Strength-limiting damage and its mitigation in CAD-CAM zirconia-reinforced lithium-silicate ceramics machined in a fully crystallized state. <i>Dental Materials</i> , 2020, 36, 1557-1565.	3.5	11
14	The use of finite element analysis in dentistry and orthodontics: Critical points for model development and interpreting results. <i>Seminars in Orthodontics</i> , 2020, 26, 162-173.	1.4	27
15	A design approach to facilitate selective attachment of bacteria and mammalian cells to additively manufactured implants. <i>Additive Manufacturing</i> , 2020, 36, 101528.	3.0	7
16	A call for action to the biomaterial community to tackle antimicrobial resistance. <i>Biomaterials Science</i> , 2020, 8, 4951-4974.	5.4	26
17	Post Processing of 3D Printed Metal Scaffolds: a Preliminary Study of Antimicrobial Efficiency. <i>Procedia Manufacturing</i> , 2020, 47, 1106-1112.	1.9	20
18	Reducing MRI susceptibility artefacts in implants using additively manufactured porous Ti-6Al-4V structures. <i>Acta Biomaterialia</i> , 2020, 107, 338-348.	8.3	28

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19	Extraction force and its determinants for minimally invasive vertical tooth extraction. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 105, 103711.	3.1	14
20	Origin of micro-scale heterogeneity in polymerisation of photo-activated resin composites. <i>Nature Communications</i> , 2020, 11, 1849.	12.8	18
21	11 $\beta$ -HSD1 plays a critical role in trabecular bone loss associated with systemic glucocorticoid therapy. <i>Arthritis Research and Therapy</i> , 2019, 21, 188.	3.5	24
22	Structural Evidence That the Polymerization Rate Dictates Order and Intrinsic Strain Generation in Photocured Methacrylate Biomedical Polymers. <i>Macromolecules</i> , 2019, 52, 5377-5388.	4.8	12
23	Outcomes of implant-based oral rehabilitation in head and neck oncology patients—a retrospective evaluation of a large, single regional service cohort. <i>International Journal of Implant Dentistry</i> , 2019, 5, 8.	2.7	24
24	The Influence of Partial Replacement of Cu with Ga on the Corrosion Behavior of Ti <sub>40</sub> Zr <sub>10</sub> Cu <sub>36</sub> Pd <sub>14</sub> Metallic Glasses. <i>Journal of the Electrochemical Society</i> , 2019, 166, C485-C491.	2.9	4
25	Improving our understanding of metal implant failures: Multiscale chemical imaging of exogenous metals in ex-vivo biological tissues. <i>Acta Biomaterialia</i> , 2019, 98, 284-293.	8.3	19
26	In situ measurement of dental resin-based composite volumetric shrinkage and temperature effects using in-fibre bragg grating methods. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 95, 89-95.	3.1	6
27	Novel Minimal Access Bone Anchored Hearing Implant Surgery and a New Surface Modified Titanium Implant, the Birmingham Experience. <i>Otology and Neurotology</i> , 2019, 40, 1326-1332.	1.3	4
28	Strength-limiting damage in lithium silicate glass-ceramics associated with CAD/CAM. <i>Dental Materials</i> , 2019, 35, 98-104.	3.5	28
29	The Antimicrobial Efficacy of Hypoxia Mimicking Cobalt Oxide Doped Phosphate-Based Glasses against Clinically Relevant Gram Positive, Gram Negative Bacteria and a Fungal Strain. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 283-293.	5.2	16
30	The design of additively manufactured lattices to increase the functionality of medical implants. <i>Materials Science and Engineering C</i> , 2019, 94, 901-908.	7.3	89
31	Effect of Zr Addition on the Corrosion of Ti in Acidic and Reactive Oxygen Species (ROS)-Containing Environments. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1103-1111.	5.2	20
32	Time-dependent Enhanced Corrosion of Ti6Al4V in the Presence of H <sub>2</sub> O <sub>2</sub> and Albumin. <i>Scientific Reports</i> , 2018, 8, 3185.	3.3	49
33	Tailoring selective laser melting process for titanium drug-delivering implants with releasing micro-channels. <i>Additive Manufacturing</i> , 2018, 20, 144-155.	3.0	45
34	Organotypic Bone Culture: An In Vitro Model for the Development of Mature Bone Containing an Osteocyte Network (Adv. Biosys. 2/2018). <i>Advanced Biology</i> , 2018, 2, 1870012.	3.0	2
35	An In Vitro Model for the Development of Mature Bone Containing an Osteocyte Network. <i>Advanced Biology</i> , 2018, 2, 1700156.	3.0	16
36	Survival of dental implants placed in autogenous bone grafts and bone flaps in head and neck oncology patients: a systematic review. <i>International Journal of Implant Dentistry</i> , 2018, 4, 19.	2.7	17

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37	Implications of X-ray beam profiles on qualitative and quantitative synchrotron micro-focus X-ray fluorescence microscopy. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1719-1726.	2.4	3
38	Glass ionomer cements with milled, dry chlorhexidine hexametaphosphate filler particles to provide long-term antimicrobial properties with recharge capacity. <i>Dental Materials</i> , 2018, 34, 1717-1726.	3.5	11
39	In Situ Synchrotron X-ray Diffraction Characterization of Corrosion Products of a Ti-Based Metallic Glass for Implant Applications. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800338.	7.6	4
40	Influence of Cobalt Ions on Collagen Gel Formation and Their Interaction with Osteoblasts. <i>ACS Omega</i> , 2018, 3, 10129-10138.	3.5	14
41	TiO <sub>2</sub> nanoparticles can selectively bind CXCL8 impacting on neutrophil chemotaxis. , 2018, 35, 13-24.		11
42	Intracoronary stress transfer through enamel following RBC photopolymerisation: A synchrotron X-ray study. <i>Dental Materials</i> , 2018, 34, 1426-1439.	3.5	1
43	The Current Evidence on Retaining or Prosthodontically Replacing Retained Deciduous Teeth in the Adult Hypodontia Patient: A Systematic Review. <i>European journal of prosthodontics and restorative dentistry</i> , The, 2018, 26, 2-15.	0.4	5
44	The impact of endodontic access on the biaxial flexure strength of dentine-bonded crown substrates – an <i>in vitro</i> study. <i>International Endodontic Journal</i> , 2017, 50, 184-193.	5.0	2
45	The impact of resin-coating on sub-critical crack extension in a porcelain laminate veneer material. <i>Dental Materials</i> , 2017, 33, 498-504.	3.5	13
46	Paternal low protein diet programs preimplantation embryo gene expression, fetal growth and skeletal development in mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1371-1381.	3.8	51
47	Surface Finish has a Critical Influence on Biofilm Formation and Mammalian Cell Attachment to Additively Manufactured Prosthetics. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1616-1626.	5.2	40
48	Favorable residual stress induction by resin-cementation on dental porcelain. <i>Dental Materials</i> , 2017, 33, 1258-1265.	3.5	10
49	In-Situ Synchrotron X-ray Characterization of Corrosion Products in Zr Artificial Pits in Simulated Physiological Solutions. <i>Journal of the Electrochemical Society</i> , 2017, 164, C1003-C1012.	2.9	8
50	Synchrotron X-ray diffraction to understand crystallographic texture of enamel affected by Hunter syndrome. <i>Archives of Oral Biology</i> , 2017, 80, 193-196.	1.8	3
51	Adding functionality with additive manufacturing: Fabrication of titanium-based antibiotic eluting implants. <i>Materials Science and Engineering C</i> , 2016, 64, 407-415.	7.3	67
52	A quantitative method to measure biofilm removal efficiency from complex biomaterial surfaces using SEM and image analysis. <i>Scientific Reports</i> , 2016, 6, 32694.	3.3	62
53	Data acquisition variability using profilometry to produce accurate mean total volumetric wear and mean maximum wear depth measurements for the OHSU oral wear simulator. <i>Dental Materials</i> , 2016, 32, e176-e184.	3.5	11
54	Atraumatic surgical extrusion to improve tooth restorability. <i>Journal of Prosthetic Dentistry</i> , 2016, 115, 649-653.	2.8	25

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55	Synchrotron X-ray diffraction and scanning electron microscopy to understand enamel affected by metabolic disorder mucopolysaccharidosis. <i>Micron</i> , 2016, 83, 48-53.	2.2	3
56	Lipopolysaccharide inhibits or accelerates biomedical titanium corrosion depending on environmental acidity. <i>International Journal of Oral Science</i> , 2015, 7, 179-186.	8.6	49
57	Laminated ceramics with elastic interfaces: A mechanical advantage?. <i>Journal of Dentistry</i> , 2015, 43, 335-341.	4.1	11
58	Adherence of oral streptococci to nanostructured titanium surfaces. <i>Dental Materials</i> , 2015, 31, 1460-1468.	3.5	75
59	A synergistic effect of albumin and H <sub>2</sub> O <sub>2</sub> accelerates corrosion of Ti6Al4V. <i>Acta Biomaterialia</i> , 2015, 26, 355-365.	8.3	103
60	In vitro bioactivity of titanium-doped bioglass. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 1865-1873.	3.6	12
61	Strength Determination of Brittle Materials as Curved Monolithic Structures. <i>Journal of Dental Research</i> , 2014, 93, 412-416.	5.2	7
62	Biaxial flexure strength determination of endodontically accessed ceramic restorations. <i>Dental Materials</i> , 2014, 30, 902-909.	3.5	11
63	Do oval posts improve fracture resistance of teeth with oval root canals?. <i>Dental Traumatology</i> , 2014, 30, 232-235.	2.0	6
64	The strength of sintered and adhesively bonded zirconia/veneer-ceramic bilayers. <i>Journal of Dentistry</i> , 2014, 42, 1269-1276.	4.1	22
65	Testing rate and cementation seating load effects on resin-strengthening of a dental porcelain analogue. <i>Journal of Dentistry</i> , 2013, 41, 514-520.	4.1	9
66	Can a soda-lime glass be used to demonstrate how patterns of strength dependence are influenced by pre-cementation and resin-cementation variables?. <i>Journal of Dentistry</i> , 2013, 41, 24-30.	4.1	24
67	Initial fracture resistance and curing temperature rise of ten contemporary resin-based composites with increasing radiant exposure. <i>Journal of Dentistry</i> , 2013, 41, 455-463.	4.1	51
68	Atmospheric moisture effects on the testing rate and cementation seating load following resin-strengthening of a soda lime glass analogue for dental porcelain. <i>Journal of Dentistry</i> , 2013, 41, 1208-1213.	4.1	0
69	Lymphoid Aggregates That Resemble Tertiary Lymphoid Organs Define a Specific Pathological Subset in Metal-on-Metal Hip Replacements. <i>PLoS ONE</i> , 2013, 8, e63470.	2.5	50
70	Do "passive"™ medical titanium surfaces deteriorate in service in the absence of wear?. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3161-3164.	3.4	83
71	Titanium phosphate glass microspheres for bone tissue engineering. <i>Acta Biomaterialia</i> , 2012, 8, 4181-4190.	8.3	70
72	Improving the standard of the standard for glass ionomers: An alternative to the compressive fracture strength test for consideration?. <i>Journal of Dentistry</i> , 2012, 40, 189-201.	4.1	23

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73	The crushing truth about glass ionomer restoratives: Exposing the standard of the standard. Journal of Dentistry, 2012, 40, 181-188.	4.1	14
74	Improved bonding of zirconia substructures to resin using a "glaze-on" technique. Journal of Dentistry, 2012, 40, 347-351.	4.1	59
75	Machining variability impacts on the strength of a "chair-side" CAD/CAM ceramic. Dental Materials, 2012, 28, 880-887.	3.5	44
76	Disruption of enamel crystal formation quantified by synchrotron microdiffraction. Journal of Dentistry, 2012, 40, 1074-1080.	4.1	23
77	The influence of resin flexural modulus on the magnitude of ceramic strengthening. Dental Materials, 2012, 28, 769-776.	3.5	31
78	The deformation and strength of a dental ceramic following resin-cement coating. Journal of Dentistry, 2011, 39, 122-127.	4.1	13
79	Transient and residual stresses in a pressable glass-ceramic before and after resin-cement coating determined using profilometry. Journal of Dentistry, 2011, 39, 368-375.	4.1	17
80	Transient and residual stresses induced during the sintering of two dentin ceramics. Dental Materials, 2011, 27, 379-385.	3.5	14
81	The Oral Health Needs of Children, Adolescents and Young Adults Affected by a Mucopolysaccharide Disorder. JIMD Reports, 2011, 2, 51-58.	1.5	16
82	Biofilm formation on bone-anchored hearing aids. Journal of Laryngology and Otology, 2011, 125, 1125-1130.	0.8	23
83	Fluid Exudates From Inflamed Bone-Anchored Hearing Aids Demonstrate Elevated Levels of Cytokines and Biomarkers of Tissue and Bone Metabolism. Otology and Neurotology, 2010, 31, 433-439.	1.3	10
84	Seating load parameters impact on dental ceramic reinforcement conferred by cementation with resin-cements. Dental Materials, 2010, 26, 915-921.	3.5	28
85	Deformation of a Dental Ceramic following Adhesive Cementation. Journal of Dental Research, 2010, 89, 87-90.	5.2	18
86	Adhesive Cementation and the Strengthening of All-Ceramic Dental Restorations. Journal of Adhesion Science and Technology, 2009, 23, 945-959.	2.6	23
87	Oxygen inhibition and incremental layer bond strengths of resin composites. Dental Materials, 2009, 25, 1338-1346.	3.5	108
88	Application of analytical stress solutions to bi-axially loaded dental ceramic-dental cement bilayers. Dental Materials, 2008, 24, 1336-1342.	3.5	19
89	Quantifying the Strength of a Resin-coated Dental Ceramic. Journal of Dental Research, 2008, 87, 542-547.	5.2	52
90	Adhesive luting of all-ceramic restorations-the impact of cementation variables and short-term water storage on the strength of a feldspathic dental ceramic. Journal of Adhesive Dentistry, 2008, 10, 285-93.	0.5	17

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91	Resin Elasticity and the Strengthening of All-ceramic Restorations. Journal of Dental Research, 2007, 86, 519-523.	5.2	72
92	Resin strengthening of dental ceramicsâ€™The impact of surface texture and silane. Journal of Dentistry, 2007, 35, 416-424.	4.1	43
93	The impact of hydrofluoric acid surface treatments on the performance of a porcelain laminate restorative material. Dental Materials, 2007, 23, 461-468.	3.5	110
94	The impact of modifying alumina air abrasion parameters on the fracture strength of a porcelain laminate restorative material. Dental Materials, 2007, 23, 1332-1341.	3.5	27
95	The influence of cement lute, thermocycling and surface preparation on the strength of a porcelain laminate veneering material. Dental Materials, 2004, 20, 286-292.	3.5	66
96	The effect of thermocycling on the strength of porcelain laminate veneer (PLV) materials. Dental Materials, 2003, 19, 291-297.	3.5	38