

J Neil Waddell

List of Publications by Year in descending order

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88
papers

1,755
citations

279487

23
h-index

329751

37
g-index

89
all docs

89
docs citations

89
times ranked

1766
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive Technology: Update on Current Materials and Applications in Dentistry. Journal of Prosthodontics, 2017, 26, 156-163.	1.7	200
2	The Uniqueness of the Human Anterior Dentition: A Geometric Morphometric Analysis. Journal of Forensic Sciences, 2007, 52, 671-677.	0.9	73
3	Bond Strength of Denture Teeth to Heat-Cured, CAD/CAM and 3D Printed Denture Acrylics. Journal of Prosthodontics, 2020, 29, 415-421.	1.7	73
4	Mechanical Properties of Human Dura Mater in Tension – An Analysis at an Age Range of 2 to 94 Years. Scientific Reports, 2019, 9, 16655.	1.6	72
5	Pressed ceramics onto zirconia. Part 2: Indentation fracture and influence of cooling rate on residual stresses. Dental Materials, 2011, 27, 1111-1118.	1.6	66
6	Tongue Pressure Patterns During Water Swallowing. Dysphagia, 2010, 25, 11-19.	1.0	62
7	Measuring Intraoral Pressure: Adaptation of a Dental Appliance Allows Measurement During Function. Dysphagia, 2008, 23, 237-243.	1.0	54
8	Pressed ceramics onto zirconia. Part 1: Comparison of crystalline phases present, adhesion to a zirconia system and flexural strength. Dental Materials, 2011, 27, 1204-1212.	1.6	51
9	Influence of veneering porcelain thickness and cooling rate on residual stresses in zirconia molar crowns. Dental Materials, 2014, 30, 271-280.	1.6	49
10	Influence of the bonder on the adhesion of porcelain to machined titanium as determined by the strain energy release rate. Dental Materials, 2007, 23, 822-828.	1.6	43
11	Clinical tooth preparations and associated measuring methods: A systematic review. Journal of Prosthetic Dentistry, 2015, 113, 175-184.	1.1	42
12	Using a Motion-Capture System to Record Dynamic Articulation for Application in CAD/CAM Software. Journal of Prosthodontics, 2009, 18, 703-710.	1.7	40
13	Cracking of Porcelain Surfaces Arising from Abrasive Grinding with a Dental Air Turbine. Journal of Prosthodontics, 2011, 20, 613-620.	1.7	40
14	Comparison of the microstructure and phase stability of as-cast, CAD/CAM and powder metallurgy manufactured Co-Cr dental alloys. Dental Materials, 2015, 31, e306-e315.	1.6	38
15	Mechanical properties of human oral mucosa tissues are site dependent: A combined biomechanical, histological and ultrastructural approach. Clinical and Experimental Dental Research, 2020, 6, 602-611.	0.8	37
16	Investigation of the elastic modulus, tensile and flexural strength of five skull simulant materials for impact testing of a forensic skin/skull/brain model. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 68, 303-307.	1.5	35
17	Influence of water, loading rate and bonder on the adhesion of porcelain to titanium. Journal of Dentistry, 2006, 34, 485-490.	1.7	31
18	TONGUE-PALATE INTERACTIONS DURING SWALLOWING. Journal of Texture Studies, 2011, 42, 95-102.	1.1	29

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19	Spark anodization of titanium-zirconium alloy: surface characterization and bioactivity assessment. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 221.	1.7	29
20	Intraoral pH and temperature during sleep with and without mouth breathing. <i>Journal of Oral Rehabilitation</i> , 2016, 43, 356-363.	1.3	28
21	Physical and metallurgical considerations of failures of soldered bars in bar attachment systems for implant overdentures: A review of the literature. <i>Journal of Prosthetic Dentistry</i> , 2006, 96, 283-288.	1.1	27
22	Adhesive evaluation of three types of resilient denture liners bonded to heat-polymerized, autopolymerized, or CAD-CAM acrylic resin denture bases. <i>Journal of Prosthetic Dentistry</i> , 2018, 120, 699-705.	1.1	26
23	Comparison of hardness and polishability of various occlusal splint materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 115, 104270.	1.5	24
24	Mechanical properties of the human scalp in tension. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 84, 188-197.	1.5	23
25	An Investigation on the Correlation between the Mechanical Properties of Human Skull Bone, Its Geometry, Microarchitectural Properties, and Water Content. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-8.	1.1	22
26	Reporting numeric values of complete crowns. Part 1: Clinical preparation parameters. <i>Journal of Prosthetic Dentistry</i> , 2015, 114, 67-74.	1.1	20
27	Elastic behavior of brain simulants in comparison to porcine brain at different loading velocities. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 609-615.	1.5	19
28	Simulated clinical adjustment and intra-oral polishing of two translucent, monolithic zirconia dental ceramics: An in vitro investigation of surface roughness. <i>Journal of Dentistry</i> , 2020, 101, 103447.	1.7	19
29	The influence of opaque application methods on the bond strength and final shade of PFM restorations. <i>Journal of Dentistry</i> , 2010, 38, e143-e149.	1.7	18
30	Simulating backscatter of blood from cranial gunshot wounds using pig models. <i>International Journal of Legal Medicine</i> , 2016, 130, 985-994.	1.2	18
31	Effect of autoclave induced low-temperature degradation on the adhesion energy between yttria-stabilized zirconia veneered with porcelain. <i>Dental Materials</i> , 2013, 29, e263-e270.	1.6	17
32	Continuous measurement of intra-oral pH and temperature: development, validation of an appliance and a pilot study. <i>Journal of Oral Rehabilitation</i> , 2015, 42, 563-570.	1.3	17
33	Surface Characteristics and Biofilm Development on Selected Dental Ceramic Materials. <i>International Journal of Dentistry</i> , 2017, 2017, 1-6.	0.5	17
34	Evaluation of wear behaviour of various occlusal splint materials and manufacturing processes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 105053.	1.5	17
35	Compressive rib fracture: Peri-mortem and post-mortem trauma patterns in a pig model. <i>Legal Medicine</i> , 2013, 15, 193-201.	0.6	16
36	A comparison between rib fracture patterns in peri- and post-mortem compressive injury in a piglet model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 33, 67-75.	1.5	16

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37	Porcelain bonding to novel Co–Cr alloys: Influence of interfacial reactions on phase stability, plasticity and adhesion. <i>Dental Materials</i> , 2016, 32, 1504-1512.	1.6	16
38	Adhesion of porcelain to three-dimensionally printed and soft milled cobalt chromium. <i>Journal of Prosthodontic Research</i> , 2020, 64, 120-127.	1.1	16
39	Evaluation of surface roughness, hardness and elastic modulus of nanoparticle containing light-polymerized denture glaze materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103601.	1.5	15
40	Scanning Electron Microscopy Observations of Failures of Implant Overdenture Bars: A Case Series Report. <i>Clinical Implant Dentistry and Related Research</i> , 2010, 12, 26-38.	1.6	14
41	Investigation of dental materials as skin simulants for forensic skin/skull/brain model impact testing. <i>Forensic Science, Medicine, and Pathology</i> , 2015, 11, 552-557.	0.6	14
42	Convergence angles and margin widths of tooth preparations by New Zealand dental students. <i>Journal of Prosthetic Dentistry</i> , 2016, 116, 74-79.	1.1	13
43	Coordinate geometry method for capturing and evaluating crown preparation geometry. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 481-487.	1.1	12
44	Use of agar/glycerol and agar/glycerol/water as a translucent brain simulant for ballistic testing. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 65, 665-671.	1.5	12
45	Finite element models and material data for analysis of infant head impacts. <i>Heliyon</i> , 2018, 4, e01010.	1.4	12
46	The cooling efficiency of different dental high-speed handpiece coolant port designs. <i>Heliyon</i> , 2019, 5, e02185.	1.4	12
47	Mechanical Properties of Laser-Sintered 3D-Printed Cobalt Chromium and Soft-Milled Cobalt Chromium. <i>Prosthesis</i> , 2020, 2, 313-320.	1.1	12
48	Topographical mapping of the mechanical characteristics of the human neurocranium considering the role of individual layers. <i>Scientific Reports</i> , 2021, 11, 3721.	1.6	12
49	Reporting numeric values of complete crowns. Part 2: Retention and resistance theories. <i>Journal of Prosthetic Dentistry</i> , 2015, 114, 75-80.	1.1	11
50	Histomorphometric and histologic evaluation of titanium–zirconium (αTiZr) implants with anodized surfaces. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 86.	1.7	11
51	Wear Behavior of Occlusal Splint Materials Manufactured By Various Methods: A Systematic Review. <i>Journal of Prosthodontics</i> , 2022, 31, 472-487.	1.7	10
52	Optical Properties and Color Stability of Denture Teeth—A Systematic Review. <i>Journal of Prosthodontics</i> , 2022, 31, 385-398.	1.7	10
53	Scalp simulation – A novel approach to site-specific biomechanical modeling of the skin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 308-313.	1.5	9
54	A biomechanical comparison between human calvarial bone and a skull simulant considering the role of attached periosteum and dura mater. <i>International Journal of Legal Medicine</i> , 2019, 133, 1603-1610.	1.2	9

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55	Adhesion of Denture Characterizing Composites to Heat-Cured, CAD/CAM and 3D Printed Denture Base Resins. <i>Journal of Prosthodontics</i> , 2021, 30, 83-90.	1.7	9
56	Estimation of jaw-opening forces in adults. <i>Orthodontics and Craniofacial Research</i> , 2018, 21, 57-62.	1.2	8
57	Quantification of subconcussive impact forces to the head using a forensic model. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 747-751.	0.8	7
58	The effect of light curing intensity on bulk-fill composite resins: heat generation and chemomechanical properties. <i>Biomaterial Investigations in Dentistry</i> , 2021, 8, 137-151.	3.0	7
59	Understanding Craniofacial Blunt Force Injury: A Biomechanical Perspective. <i>Forensic Pathology Reviews</i> , 2009, , 39-51.	0.1	7
60	Fabrication of a self-retaining surgical template for surgical placement of dental implants for the partially edentulous patient. <i>Journal of Prosthetic Dentistry</i> , 2005, 93, 95-96.	1.1	6
61	Influence of a tungsten metal conditioner on the adhesion and residual stress of porcelain bonded to cobalt-chromium alloy. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 584-590.	1.1	6
62	Microstructure, phase content, and thermal stability of a cast Co-Cr dental alloy after porcelain sintering cycles using electron backscatter diffraction. <i>Journal of Materials Research</i> , 2015, 30, 2188-2196.	1.2	6
63	The Effect of Low-Processing Temperature on the Physicochemical and Mechanical Properties of Bovine Hydroxyapatite Bone Substitutes. <i>Materials</i> , 2022, 15, 2798.	1.3	6
64	Development of a bite force transducer for measuring maximum voluntary bite forces between individual opposing tooth surfaces. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 109, 103846.	1.5	5
65	Fibre-reinforced and repaired PMMA denture base resin: Effect of placement on the flexural strength and load-bearing capacity. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 124, 104828.	1.5	5
66	Optical and mechanical properties of conventional, milled and 3D-printed denture teeth. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 105061.	1.5	5
67	Investigation of dental alginate and agar impression materials as a brain simulant for ballistic testing. <i>Forensic Science International</i> , 2016, 263, 169-175.	1.3	4
68	Real-time pulp temperature change at different tooth sites during fabrication of temporary resin crowns. <i>Heliyon</i> , 2019, 5, e02971.	1.4	4
69	Effect of Two Brands of Glaze Material on the Flexural Strength and Probability of Failure of High Translucent Monolithic Zirconia. <i>Materials</i> , 2021, 14, 7022.	1.3	4
70	Bond Strength between CAD/CAM PMMA Denture Base Resins and Characterisation Composites. <i>Oral</i> , 2022, 2, 75-87.	0.6	4
71	Conservation of intraoral pressure changes during swallowing. <i>Journal of Dental Sciences</i> , 2012, 7, 324-329.	1.2	3
72	Can the Measurement of Jaw-Opening Forces Assist in the Diagnosis of Temporomandibular Disorders?. <i>Journal of Oral and Facial Pain and Headache</i> , 2020, 34, 199-205.	0.7	3

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73	Structure and properties of baleen in the Southern right (<i>Eubalaena australis</i>) and Pygmy right whales (<i>Caperea marginata</i>). <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103939.	1.5	3
74	Investigation of dental elastomers as oral mucosa simulant materials. <i>Clinical and Experimental Dental Research</i> , 2021, 7, 754-762.	0.8	3
75	Different Undercut Depths Influence on Fatigue Behavior and Retentive Force of Removable Partial Denture Clasp Materials: A Systematic Review. <i>Journal of Prosthodontics</i> , 2023, 32, 108-115.	1.7	3
76	Silver solder tattoo, a novel form of oral pigmentation identified with the use of field emission scanning electron microscopy and electron dispersive spectrography. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2011, 112, e6-e10.	1.6	2
77	Biomechanical investigation of impact induced rib fractures of a porcine infant surrogate model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 62, 588-598.	1.5	2
78	Adhesion between zirconia and indirect composite resin. <i>International Journal of Adhesion and Adhesives</i> , 2016, 69, 72-78.	1.4	2
79	The influence of undercut depths on the accuracy of casts poured from irreversible hydrocolloid impression materials. <i>Heliyon</i> , 2020, 6, e03143.	1.4	2
80	Wear Resistance of Bulk-Fill Dental Resins Cured by Different Light-Curing Settings. <i>Biotribology</i> , 2021, 28, 100197.	0.9	2
81	Elemental composition of imported porcelain-fused-to-metal crowns—a pilot study. <i>New Zealand Dental Journal</i> , 2010, 106, 50-4.	0.1	2
82	Curing through Ceramics: Influence of Different Light-Curing Units and Curing Modes on Bond Strength. <i>Oral</i> , 2022, 2, 62-74.	0.6	2
83	Effect of a glaze layer on adhesion energy between resin cements to zirconia ceramic. <i>International Journal of Adhesion and Adhesives</i> , 2018, 84, 451-456.	1.4	1
84	Anatomical head model to measure impact force transfer through the head layers and their displacement. <i>Journal of Concussion</i> , 2018, 2, 205970021877782.	0.2	1
85	The influence of flame and furnace soldering method on the stress corrosion, fatigue resistance and fracture toughness of soldered bar attachment systems for implant overdentures. <i>Journal of the Royal Society of New Zealand</i> , 2020, 50, 115-131.	1.0	1
86	Real-time in vitro measurement of denture-mucosa pressure distribution in a typical edentulous patient with and without implants: Development of a methodology. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 119, 104531.	1.5	1
87	Measuring Changes in Jaw Opening Forces to Assess the Degree of Improvement in Patients with Temporomandibular Disorders. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1224.	1.3	1
88	Denture Mucosa Pressure Distribution and Pressure Pain Threshold in In Vivo, In Vitro and In Silico Studies: A Literature Review. <i>Oral</i> , 2022, 2, 112-125.	0.6	0