

William M Palin

List of Publications by Year in descending order

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73
papers

4,199
citations

94381

37
h-index

110317

64
g-index

74
all docs

74
docs citations

74
times ranked

3158
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in dimethacrylate-based dental composite technology and curing efficiency. <i>Dental Materials</i> , 2013, 29, 139-156.	1.6	401
2	Physico-mechanical characteristics of commercially available bulk-fill composites. <i>Journal of Dentistry</i> , 2014, 42, 993-1000.	1.7	311
3	Refractive Index Mismatch and Monomer Reactivity Influence Composite Curing Depth. <i>Journal of Dental Research</i> , 2008, 87, 84-88.	2.5	257
4	In vitro cuspal deflection and microleakage of maxillary premolars restored with novel low-shrink dental composites. <i>Dental Materials</i> , 2005, 21, 324-335.	1.6	190
5	Developments in low level light therapy (LLLT) for dentistry. <i>Dental Materials</i> , 2014, 30, 465-475.	1.6	182
6	Filler characteristics of modern dental resin composites and their influence on physico-mechanical properties. <i>Dental Materials</i> , 2016, 32, 1586-1599.	1.6	161
7	The influence of short and medium-term water immersion on the hydrolytic stability of novel low-shrink dental composites. <i>Dental Materials</i> , 2005, 21, 852-863.	1.6	155
8	Water uptake and strength characteristics of a nanofilled resin-based composite. <i>Journal of Dentistry</i> , 2008, 36, 186-193.	1.7	147
9	Photoinitiator type and applicability of exposure reciprocity law in filled and unfilled photoactive resins. <i>Dental Materials</i> , 2011, 27, 157-164.	1.6	147
10	Investigating filler morphology and mechanical properties of new low-shrinkage resin composite types. <i>Journal of Oral Rehabilitation</i> , 2010, 37, 364-376.	1.3	128
11	The mechanical properties of nanofilled resin-based composites: The impact of dry and wet cyclic pre-loading on bi-axial flexure strength. <i>Dental Materials</i> , 2009, 25, 188-197.	1.6	123
12	The influence of irradiation potential on the degree of conversion and mechanical properties of two bulk-fill flowable RBC base materials. <i>Dental Materials</i> , 2013, 29, 906-912.	1.6	109
13	Oxygen inhibition and incremental layer bond strengths of resin composites. <i>Dental Materials</i> , 2009, 25, 1338-1346.	1.6	108
14	Photoinitiation chemistry affects light transmission and degree of conversion of curing experimental dental resin composites. <i>Dental Materials</i> , 2007, 23, 807-813.	1.6	91
15	Bacterial adhesion mechanisms on dental implant surfaces and the influencing factors. <i>International Journal of Adhesion and Adhesives</i> , 2016, 69, 58-71.	1.4	87
16	Under the spotlight: mechanisms of photobiomodulation concentrating on blue and green light. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1877-1909.	1.6	76
17	Contemporary Issues in Light Curing. <i>Operative Dentistry</i> , 2014, 39, 4-14.	0.6	70
18	Shining a light on high volume photocurable materials. <i>Dental Materials</i> , 2018, 34, 695-710.	1.6	70

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19	Ultra-fast light-curing resin composite with increased conversion and reduced monomer elution. <i>Dental Materials</i> , 2014, 30, 594-604.	1.6	69
20	The dark art of light measurement: accurate radiometry for low-level light therapy. <i>Lasers in Medical Science</i> , 2016, 31, 789-809.	1.0	69
21	The mechanical properties of nanofilled resin-based composites: Characterizing discrete filler particles and agglomerates using a micromanipulation technique. <i>Dental Materials</i> , 2009, 25, 180-187.	1.6	67
22	Improved bonding of zirconia substructures to resin using a "glaze-on" technique. <i>Journal of Dentistry</i> , 2012, 40, 347-351.	1.7	59
23	Monomer conversion versus flexure strength of a novel dental composite. <i>Journal of Dentistry</i> , 2003, 31, 341-351.	1.7	56
24	The reliability in flexural strength testing of a novel dental composite. <i>Journal of Dentistry</i> , 2003, 31, 549-557.	1.7	54
25	The reliability of standardized flexure strength testing procedures for a light-activated resin-based composite. <i>Dental Materials</i> , 2005, 21, 911-919.	1.6	54
26	Two year clinical evaluation of a low-shrink resin composite material in UK general dental practices. <i>Dental Materials</i> , 2011, 27, 622-630.	1.6	54
27	Effects of Red Light-emitting Diode Irradiation on Dental Pulp Cells. <i>Journal of Dental Research</i> , 2012, 91, 961-966.	2.5	54
28	The effect of ultra-fast photopolymerisation of experimental composites on shrinkage stress, network formation and pulpal temperature rise. <i>Dental Materials</i> , 2014, 30, 1280-1289.	1.6	54
29	The Effect of Surface Preparation and Luting Agent on Bond Strength to a Zirconium-based Ceramic. <i>Operative Dentistry</i> , 2007, 32, 623-630.	0.6	53
30	Cuspal movement and microleakage in premolar teeth restored with resin-based filling materials cured using a "soft-start" polymerisation protocol. <i>Dental Materials</i> , 2007, 23, 637-643.	1.6	51
31	Reduced polymerization stress of MAPO-containing resin composites with increased curing speed, degree of conversion and mechanical properties. <i>Dental Materials</i> , 2014, 30, 507-516.	1.6	50
32	Cure width potential for MOD resin composite molar restorations. <i>Dental Materials</i> , 2008, 24, 1083-1094.	1.6	48
33	Chemistry of novel and contemporary resin-based dental adhesives. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103875.	1.5	47
34	Irradiation Modes Impact on Radical Entrapment in Photoactive Resins. <i>Journal of Dental Research</i> , 2010, 89, 1494-1498.	2.5	46
35	Competitive light absorbers in photoactive dental resin-based materials. <i>Dental Materials</i> , 2012, 28, 831-841.	1.6	44
36	Increased rates of photopolymerisation by ternary type II photoinitiator systems in dental resins. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 98, 71-78.	1.5	39

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37	Dynamic monitoring of refractive index change through photoactive resins. <i>Dental Materials</i> , 2010, 26, 1106-1112.	1.6	37
38	The effect of surface roughness on the flexure strength of an alumina reinforced all-ceramic crown material. <i>Journal of Dentistry</i> , 2002, 30, 153-160.	1.7	35
39	Extrinsic energy sources affect hardness through depth during set of a glass-ionomer cement. <i>Journal of Dentistry</i> , 2010, 38, 490-495.	1.7	35
40	Photopolymerization of highly filled dimethacrylate-based composites using Type I or Type II photoinitiators and varying co-monomer ratios. <i>Dental Materials</i> , 2016, 32, 136-148.	1.6	27
41	Development and application of LED arrays for use in phototherapy research. <i>Journal of Biophotonics</i> , 2017, 10, 1514-1525.	1.1	27
42	Experimental and FE displacement and polymerization stress of bonded restorations as a function of the C-Factor, volume and substrate stiffness. <i>Journal of Dentistry</i> , 2014, 42, 140-148.	1.7	25
43	Electrophoretic deposition of novel semi-permeable coatings on 3D-printed Ti-Nb alloy meshes for guided alveolar bone regeneration. <i>Dental Materials</i> , 2022, 38, 431-443.	1.6	18
44	Differential responses of myoblasts and myotubes to photobiomodulation are associated with mitochondrial number. <i>Journal of Biophotonics</i> , 2019, 12, e201800411.	1.1	17
45	The frictional coefficients and associated wear resistance of novel low-shrink resin-based composites. <i>Dental Materials</i> , 2005, 21, 1111-1118.	1.6	16
46	Dynamic monitoring of curing photoactive resins: A methods comparison. <i>Dental Materials</i> , 2010, 26, 565-570.	1.6	15
47	An evaluation of the technique sensitivity of a hydrothermal low-fusing dental ceramic. <i>Journal of Dentistry</i> , 2001, 29, 443-449.	1.7	14
48	Specimen aspect ratio and light transmission in photoactive dental resins. <i>Dental Materials</i> , 2012, 28, 1154-1161.	1.6	13
49	Structural Evidence That the Polymerization Rate Dictates Order and Intrinsic Strain Generation in Photocured Methacrylate Biomedical Polymers. <i>Macromolecules</i> , 2019, 52, 5377-5388.	2.2	12
50	Biaxial flexure strength determination of endodontically accessed ceramic restorations. <i>Dental Materials</i> , 2014, 30, 902-909.	1.6	11
51	On the inaccuracies of dental radiometers. <i>PLoS ONE</i> , 2021, 16, e0245830.	1.1	10
52	Photobiomodulation in Acute Traumatic Brain Injury: A Systematic Review and Meta-Analysis. <i>Journal of Neurotrauma</i> , 2023, 40, 210-227.	1.7	10
53	Photo-polymerisation variables influence the structure and subsequent thermal response of dental resin matrices. <i>Dental Materials</i> , 2020, 36, 343-352.	1.6	9
54	Effects of particulate filler systems on the properties and performance of dental polymer composites. , 2013, , 294-335.		8

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55	The mechanical behavior of the material-tissue and material-material interface in dental reconstructions. <i>International Journal of Adhesion and Adhesives</i> , 2016, 69, 2-14.	1.4	8
56	An evaluation of the mechanical properties of "hydrothermal"™ dental glass after water immersion and surface polishing. <i>Dental Materials</i> , 2003, 19, 92-100.	1.6	7
57	The Effect of UDMA/TEGDMA Mixtures and Bioglass Incorporation on the Mechanical and Physical Properties of Resin and Resin-Based Composite Materials. <i>Conference Papers in Science</i> , 2014, 2014, 1-5.	0.3	7
58	Bis(4-methyl phenyl)iodonium as an alternative component to diphenyliodonium in camphorquinone-based ternary initiating systems. <i>Dental Materials</i> , 2020, 36, 1282-1288.	1.6	7
59	"Let there be Light,"™ and there was Light, but was it Enough? A Review of Modern Dental Light Curing. <i>Dental Update</i> , 2021, 48, 633-640.	0.1	7
60	Low level light therapy (LLLT) for the treatment and management of dental and oral diseases. <i>Dental Update</i> , 2014, 41, 763-772.	0.1	6
61	Light and viscosity effects on the curing potential of bulk-fill composites placed in deep cavities. <i>Odontology / the Society of the Nippon Dental University</i> , 2021, 109, 874-883.	0.9	6
62	Photobiomodulation reduces hippocampal apoptotic cell death and produces a Raman spectroscopic "signature" PLoS ONE, 2022, 17, e0264533.	1.1	6
63	Potential for direct application of blue light for photo-disinfection of dentine. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 215, 112123.	1.7	5
64	Composition of Dental Resin-Based Composites for Direct Restorations. , 2018, , 11-24.		4
65	Biomodulatory effects of laser irradiation on dental pulp cells invitro. , 2015, , .		3
66	An audit of cavity and crown preparations and two direct restorations carried out by foundation dentists in the Oxford and Wessex Deaneries. <i>British Dental Journal</i> , 2014, 216, 421-425.	0.3	2
67	The effect of UV-Vis to near-infrared light on the biological response of human dental pulp cells. , 2015, , .		2
68	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.	2.3	2
69	Developing a More Appropriate Classification System for Modern Resin-Based Composite Technologies. , 2018, , 89-96.		2
70	Five Year Clinical Evaluation of Restorations Placed in a Low Shrinkage Stress Composite in UK General Dental Practices. <i>European journal of prosthodontics and restorative dentistry</i> , The, 2017, 25, 108-114.	0.3	2
71	The Effect of Bioglass Addition on Mechanical and Physical Properties of Photoactive UDMA-TEGDMA Resin Composites. <i>Key Engineering Materials</i> , 2013, 587, 215-221.	0.4	1
72	Beam profile measurements for dental phototherapy: the effect of distance, wavelength and tissue thickness. , 2015, , .		1

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73	Special Issue on "Biological and materials associated interfacial adhesion in modern dentistry" International Journal of Adhesion and Adhesives, 2016, 69, 1.	1.4	0