## William M Johnston

List of Publications by Year in descending order

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145 papers 4,886 citations

76196 40 h-index 62 g-index

145 all docs 145 docs citations

145 times ranked 3044 citing authors

#	Article	IF	CITATIONS
1	Color acceptance of direct dental restorative materials by human observers. Color Research and Application, 2000, 25, 278-285.	0.8	188
2	Attractiveness, acceptability, and value of orthodontic appliances. American Journal of Orthodontics and Dentofacial Orthopedics, 2009, 135, 276-277.	0.8	183
3	Color measurement in dentistry. Journal of Dentistry, 2009, 37, e2-e6.	1.7	181
4	Color stainability of CAD/CAM and nanocomposite resin materials. Journal of Prosthetic Dentistry, 2016, 115, 71-75.	1.1	163
5	Color and translucency changes during and after curing of esthetic restorative materials. Dental Materials, 1997, 13, 89-97.	1.6	152
6	Color accuracy of commercial digital cameras for use in dentistry. Dental Materials, 2006, 22, 553-559.	1.6	146
7	Variation in color between intended matched shade and fabricated shade of dental porcelain. Journal of Prosthetic Dentistry, 2002, 87, 657-666.	1.1	123
8	Porcelain thickness and cement shade effects on the colour and translucency of porcelain veneering materials. Journal of Dentistry, 2013, 41, 1043-1050.	1.7	105
9	Coverage error of three conceptually different shade guide systems to vital unrestored dentition. Journal of Prosthetic Dentistry, 2007, 98, 175-185.	1.1	103
10	Accuracy of different digital scanning techniques and scan bodies for complete-arch implant-supported prostheses. Journal of Prosthetic Dentistry, 2020, 123, 96-104.	1.1	100
11	Comparison of incisor inclination in patients with Class III malocclusion treated with orthognathic surgery or orthodontic camouflage. American Journal of Orthodontics and Dentofacial Orthopedics, 2009, 135, 146.e1-146.e9.	0.8	97
12	Review of Translucency Determinations and Applications to Dental Materials. Journal of Esthetic and Restorative Dentistry, 2014, 26, 217-223.	1.8	96
13	Attractiveness, acceptability, and value of orthodontic appliances. American Journal of Orthodontics and Dentofacial Orthopedics, 2009, 135, 276.e1-276.e12.	0.8	93
14	Optical properties and surface roughness of prepolymerized poly(methyl methacrylate) denture base materials. Journal of Prosthetic Dentistry, 2019, 121, 347-352.	1.1	92
15	New Shade Guide for Evaluation of Tooth Whitening—Colorimetric Study. Journal of Esthetic and Restorative Dentistry, 2007, 19, 276-283.	1.8	77
16	Orthodontic appliance preferences of children and adolescents. American Journal of Orthodontics and Dentofacial Orthopedics, 2010, 138, 698.e1-698.e12.	0.8	75
17	Assessment of perceived orthodontic appliance attractiveness. American Journal of Orthodontics and Dentofacial Orthopedics, 2008, 133, S68-S78.	0.8	74
18	Effect of esthetic core shades on the final color of IPS Empress all-ceramic crowns. Journal of Prosthetic Dentistry, 2006, 96, 397-401.	1.1	73

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19	Measurement of color for craniofacial structures using a 45/0-degree optical configuration. Journal of Prosthetic Dentistry, 2007, 97, 45-53.	1.1	73
20	Evaluation of the wear resistance of new nanocomposite resin restorative materials. Journal of Prosthetic Dentistry, 2008, 99, 435-443.	1.1	71
21	Use of a porcelain color discrimination test to evaluate color difference formulas. Journal of Prosthetic Dentistry, 2007, 98, 101-109.	1.1	69
22	Polymerization efficiency of chemically cured and visible light-cured orthodontic adhesives: Degree of cure. American Journal of Orthodontics and Dentofacial Orthopedics, 1995, 108, 294-301.	0.8	65
23	Minimum Color Differences for Discriminating Mismatch between Composite and Tooth Color. Journal of Esthetic and Restorative Dentistry, 2001, 13, 41-48.	1.8	65
24	Effect of surface treatments and coffee thermocycling on the color and translucency of CAD-CAM monolithic glass-ceramic. Journal of Prosthetic Dentistry, 2018, 120, 263-268.	1.1	65
25	Bond strengths of one- and two-step self-etch adhesive systems. Journal of Prosthetic Dentistry, 2007, 97, 216-222.	1.1	62
26	InÂvitro color stainability and relative translucency of CAD-CAM restorative materials used for laminate veneers and complete crowns. Journal of Prosthetic Dentistry, 2019, 122, 160-166.	1.1	59
27	The effects of manipulative variables on the color of ceramic metal restorations. Journal of Prosthetic Dentistry, 1988, 60, 297-303.	1.1	58
28	Residual monomer leaching from chemically cured and visible light-cured orthodontic adhesives. American Journal of Orthodontics and Dentofacial Orthopedics, 1995, 108, 316-321.	0.8	57
29	Accuracy of Kubelka–Munk reflectance theory for dental resin composite material. Dental Materials, 2012, 28, 729-735.	1.6	55
30	Evaluation of patient experience and satisfaction with CAD-CAM-fabricated complete dentures: A retrospective survey study. Journal of Prosthetic Dentistry, 2016, 116, 524-528.	1.1	55
31	Effect of thickness on optical properties of monolithic CAD-CAM ceramics. Journal of Dentistry, 2018, 71, 38-42.	1.7	55
32	Effect of substrate shades on the color of ceramic laminate veneers. Journal of Prosthetic Dentistry, 2011, 106, 179-183.	1.1	53
33	Evaluating Tooth Color Change from Carbamide Peroxide Gel. Journal of the American Dental Association, 1993, 124, 65-72.	0.7	52
34	Optical characteristics of contemporary dental composite resin materials. Journal of Dentistry, 2013, 41, 771-778.	1.7	52
35	Estimating the color of maxillary central incisors based on age and gender. Journal of Prosthetic Dentistry, 2008, 100, 93-98.	1.1	51
36	Fracture incidence on debonding of orthodontic brackets from porcelain veneer laminates. Journal of Prosthetic Dentistry, 1991, 66, 631-637.	1.1	46

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37	Porcelain adherence to high-palladium alloys. Journal of Prosthetic Dentistry, 1993, 70, 386-394.	1.1	44
38	Measuring the Color of Maxillofacial Prosthetic Material. Journal of Dental Research, 2010, 89, 1522-1527.	2.5	42
39	Duration of Tooth Color Change After Bleaching. Journal of the American Dental Association, 1991, 122, 54-59.	0.7	40
40	Color Adjustment Potential of Resin Composites. Journal of Dental Research, 2008, 87, 499-503.	2.5	40
41	Influence of dental rotary instruments on the roughness and wettability of human dentin surfaces. Journal of Prosthetic Dentistry, 2009, 102, 81-88.	1.1	40
42	Estrogen deficiency increases variability of tissue mineral density of alveolar bone surrounding teeth. Archives of Oral Biology, 2010, 55, 599-605.	0.8	40
43	Effect of shading technique and thickness on color stability and translucency of new generation translucent zirconia. Journal of Dentistry, 2018, 73, 19-23.	1.7	40
44	Influence of tooth preparation taper and cement type on recementation strength of complete metal crowns. Journal of Prosthetic Dentistry, 2009, 102, 354-361.	1.1	38
45	Effect of pH on tooth discoloration from food colorant in vitro. Journal of Dentistry, 2010, 38, e106-e109.	1.7	37
46	Improved Flexural Strength of N-Vinyl-Pyrrolidone Modified Acrylic Acid Copolymers for Glass-Ionomers. Journal of Macromolecular Science - Pure and Applied Chemistry, 1998, 35, 1615-1629.	1.2	34
47	InÂvitro fit of CAD-CAM complete arch screw-retained titanium and zirconia implant prostheses fabricated on 4 implants. Journal of Prosthetic Dentistry, 2018, 119, 409-416.	1.1	34
48	Smear layer instability caused by hemostatic agents. Journal of Prosthetic Dentistry, 1996, 76, 477-482.	1.1	33
49	Viscoelastic behavior and fracture toughness of six glass-ionomer cements. Journal of Prosthetic Dentistry, 2006, 96, 266-272.	1.1	33
50	Effect of different high-palladium metal-ceramic alloys on the color of opaque and dentin porcelain. Journal of Prosthetic Dentistry, 2004, 92, 170-178.	1.1	32
51	Effects of dental laboratory processing variables and in vitro testing medium on the porcelain adherence of high-palladium casting alloys. Journal of Prosthetic Dentistry, 1998, 79, 514-519.	1.1	31
52	Direct light transmittance through ceramic brackets. American Journal of Orthodontics and Dentofacial Orthopedics, 1995, 107, 11-19.	0.8	30
53	Effects of fabrication and shading technique on the color and translucency of new-generation translucent zirconia after coffee thermocycling. Journal of Prosthetic Dentistry, 2018, 120, 603-608.	1.1	30
54	The determination of optical absorption and scattering in translucent porcelain. Color Research and Application, 1986, 11, 125-130.	0.8	29

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55	Formulation of Visible Light-Curable Glass-Ionomer Cements Containing N-Vinylpyrrolidone. Journal of Macromolecular Science - Pure and Applied Chemistry, 1998, 35, 1631-1650.	1.2	29
56	Effect of bleaching on tooth discolouration from food colourant in vitro. Journal of Dentistry, 2011, 39, e52-e56.	1.7	28
57	Regional variation of bone tissue properties at the human mandibular condyle. Bone, 2015, 77, 98-106.	1.4	28
58	Effect of different resin cements and surface treatments on the shear bond strength of ceramic-glass polymer materials. Journal of Prosthetic Dentistry, 2018, 120, 454-461.	1.1	28
59	Potentiodynamic polarization study of the in vitro corrosion behavior of 3 high-palladium alloys and a gold-palladium alloy in 5 media. Journal of Prosthetic Dentistry, 2002, 87, 86-93.	1.1	26
60	Appearance Differences Between Lots and Brands of Similar Shade Designations of Dental Composite Resins. Journal of Esthetic and Restorative Dentistry, 2017, 29, E6-E14.	1.8	25
61	Torsional bond strength and failure pattern of ceramic brackets bonded to composite resin laminate veneers. European Journal of Orthodontics, 1995, 17, 533-540.	1.1	24
62	Evaluating Porcelain Color Match of Different Porcelain Shade-Matching Systems. Journal of Esthetic and Restorative Dentistry, 2000, 12, 271-280.	1.8	24
63	Evaluation of high-temperature distortion of high-palladium metal-ceramic crowns. Journal of Prosthetic Dentistry, 2001, 85, 133-140.	1.1	24
64	Color and translucency stability of contemporary resinâ€based restorative materials. Journal of Esthetic and Restorative Dentistry, 2021, 33, 899-905.	1.8	24
65	Relative fracture toughness of bis-acryl interim resin materials. Journal of Prosthetic Dentistry, 2011, 106, 118-125.	1.1	23
66	Marginal discrepancy of CAD-CAM complete-arch fixed implant-supported frameworks. Journal of Prosthetic Dentistry, 2018, 120, 65-70.	1.1	23
67	InÂvitro evaluation of the accuracy and precision of intraoral and extraoral complete-arch scans. Journal of Prosthetic Dentistry, 2021, 126, 665-670.	1.1	23
68	Comparison of micro-CT and cone beam CT-based assessments for relative difference of grey level distribution in a human mandible. Dentomaxillofacial Radiology, 2013, 42, 25117764.	1.3	21
69	A Comparison of Zirconia and Titanium Abutments for Microleakage. Clinical Implant Dentistry and Related Research, 2015, 17, e643-51.	1.6	20
70	Vickers Hardness Investigation of Work-Hardening in Used NiTi Rotary Instruments. Journal of Endodontics, 2006, 32, 1191-1193.	1.4	19
71	Confirmation of theoretical colour predictions for layering dental composite materials. Journal of Dentistry, 2014, 42, 419-424.	1.7	19
72	Effect of different high-palladium metal-ceramic alloys on the color of opaque porcelain. Journal of Prosthodontics, 2000, 9, 71-76.	1.7	18

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73	Color formulation and reproduction of opaque dental ceramic. Dental Materials, 2005, 21, 665-670.	1.6	18
74	Mechanical properties, fracture surface characterization, and microstructural analysis of six noble dental casting alloys. Journal of Prosthetic Dentistry, 2011, 105, 394-402.	1.1	18
75	Effects of pigments on dynamic mechanicalÂproperties of a maxillofacial prosthetic elastomer. Journal of Prosthetic Dentistry, 2014, 112, 1298-1303.	1.1	18
76	Color and translucency of zirconia infrastructures and porcelain-layered systems. Journal of Prosthetic Dentistry, 2019, 121, 510-516.	1.1	18
77	Surface roughness of high-performance polymers used for fixed implant-supported prostheses. Journal of Prosthetic Dentistry, 2021, 126, 254.e1-254.e6.	1.1	18
78	Interfacial corrections of maxillofacial elastomers for Kubelka–Munk theory using non-contact measurements. Dental Materials, 2009, 25, 1163-1168.	1.6	17
79	Effects of orthodontic treatment on human alveolar bone density distribution. Clinical Oral Investigations, 2013, 17, 2033-2040.	1.4	17
80	Efficacy of Cone-Beam Computed Tomography in Evaluating Bone Quality for Optimum Implant Treatment Planning. Implant Dentistry, 2017, 26, 405-411.	1.7	17
81	Fracture analysis of monolithic CADâ€CAM crowns. Journal of Esthetic and Restorative Dentistry, 2019, 31, 346-352.	1.8	17
82	Prospective patients rate practice factors: Development of a questionnaire. American Journal of Orthodontics and Dentofacial Orthopedics, 2011, 139, 235-241.	0.8	16
83	A novel regression model from RGB image data to spectroradiometric correlates optimized for tooth colored shades. Journal of Dentistry, 2016, 51, 45-48.	1.7	16
84	Illuminant effect on the coverage error of a gingiva-colored composite resin shade guide. Journal of Prosthetic Dentistry, 2016, 116, 770-776.	1.1	15
85	Potentiodynamic polarization study of the corrosion behavior of palladium-silver dental alloys. Journal of Prosthetic Dentistry, 2018, 119, 650-656.	1.1	15
86	Effects of interimplant distance and cyclic dislodgement on retention of LOCATOR and ball attachments: An inÂvitro study. Journal of Prosthetic Dentistry, 2019, 122, 550-556.	1.1	15
87	Color comparisons of denture teeth and shade guides. Journal of Prosthetic Dentistry, 1986, 56, 31-34.	1.1	14
88	Electrochemical impedance spectroscopy study of high-palladium dental alloys. Part I: behavior at open-circuit potential. Journal of Materials Science: Materials in Medicine, 2002, 13, 435-442.	1.7	14
89	The effect of different adhesives on vinyl polysiloxane bond strength to two tray materials. Journal of Prosthetic Dentistry, 2005, 94, 209-213.	1.1	14
90	Translucency estimation for thick pigmented maxillofacial elastomer. Journal of Dentistry, 2011, 39, e2-e8.	1.7	14

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91	Effect of feldspathic porcelain layering on the marginal fit of zirconia and titanium complete-arch fixed implant-supported frameworks. Journal of Prosthetic Dentistry, 2018, 120, 71-78.	1.1	14
92	Impact of number of registration points on the positional accuracy of a prosthetic treatment plan incorporated into a cone beam computed tomography scan by surface scan registration: An in vitro study. Clinical Oral Implants Research, 2019, 30, 826-832.	1.9	14
93	Concentration additivity of kubelka-munk optical coefficients of porcelain mixtures. Color Research and Application, 1986, 11, 131-137.	0.8	13
94	Cervical vertebral bone mineral density changes in adolescents during orthodontic treatment. American Journal of Orthodontics and Dentofacial Orthopedics, 2014, 146, 183-189.	0.8	13
95	Dislodgement force analysis of an overdenture attachmentÂsystem. Journal of Prosthetic Dentistry, 2020, 123, 291-298.	1.1	13
96	Shear Bond Strength of the Amalgam-Resin Composite Interface. Operative Dentistry, 2007, 32, 341-346.	0.6	12
97	Comparison of the metal-to-ceramic bondÂstrengths of four noble alloys withÂpress-on-metal and conventional porcelain layering techniques. Journal of Prosthetic Dentistry, 2014, 112, 1194-1200.	1.1	12
98	Primary stability and viscoelastic displacement of mini-implant system under loading. Clinical Biomechanics, 2017, 41, 28-33.	0.5	12
99	Surface properties of dental amalgam: roughness produced by setting reaction. Journal of the American Dental Association, 1977, 94, 891-894.	0.7	11
100	Concentration additivity of coefficients for maxillofacial elastomer pigmented to skin colors. Dental Materials, 2009, 25, 1468-1473.	1.6	11
101	The effect of metal recasting on porcelain-metal bonding: A force-to-failure study. Journal of Prosthetic Dentistry, 2010, 104, 165-172.	1.1	11
102	Fracture analysis of CAD-CAM high-density polymers used for interim implant-supported fixed, cantilevered prostheses. Journal of Prosthetic Dentistry, 2018, 120, 79-84.	1.1	11
103	The effects of a liquid dispersing agent and a microcrystalline additive on the physical properties of type IV gypsum. Journal of Prosthetic Dentistry, 1988, 60, 630-637.	1.1	10
104	Optical properties of human trabecular meshwork in the visible and near-infrared region., 1999, 25, 348-362.		10
105	Viscoelastic properties of elastomeric chains: An investigation of pigment and manufacturing effects. American Journal of Orthodontics and Dentofacial Orthopedics, 2012, 141, 315-326.	0.8	10
106	Electrochemical impedance spectroscopy study of high-palladium dental alloys. Part II: behavior at active and passive potentials. Journal of Materials Science: Materials in Medicine, 2002, 13, 443-448.	1.7	9
107	Distortion of CAD-CAM-fabricated implant-fixed titanium and zirconia complete dental prosthesis frameworks. Journal of Prosthetic Dentistry, 2018, 119, 116-123.	1.1	9
108	Effect of cyclic loading on reverse torque values of angled screw channel systems. Journal of Prosthetic Dentistry, 2022, 128, 458-466.	1.1	9

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109	Effect of thickness, cement shade, and coffee thermocycling on the optical properties of zirconia reinforced lithium silicate ceramic. Journal of Esthetic and Restorative Dentistry, 2021, 33, 1132-1138.	1.8	9
110	The effect of unfilled resin dilution on composite resin hardness and abrasion resistance. Journal of Prosthetic Dentistry, 1993, 70, 214-218.	1.1	8
111	Three-year effect of unfilled resin dilution on water sorption of a light-cured microfill and hybrid composite resin. Journal of Prosthetic Dentistry, 1996, 75, 364-366.	1.1	8
112	The development of a novel shade selection program for fixed shade translucent dental materials. Journal of Dentistry, 2017, 62, 81-84.	1.7	7
113	Electrochemical impedance spectroscopy study of corrosion characteristics of palladium–silver dental alloys. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1777-1786.	1.6	7
114	Effect of polyhedral silsesquioxane (POSS) on the flexural strength and color of interim materials. Journal of Prosthetic Dentistry, 2014, 112, 228-234.	1.1	6
115	Analysis of color differences in stained contemporary esthetic dental materials. Journal of Prosthetic Dentistry, 2021, 126, 438-445.	1.1	6
116	In vitro optical characterization of dental resin composite aged in darkness. Color Research and Application, 2020, 45, 345-351.	0.8	6
117	Displacement and performance of abutments in narrow-diameter implants with different internal connections. Journal of Prosthetic Dentistry, 2022, 127, 100-106.	1.1	6
118	Screw stability of <scp>CADâ€CAM</scp> titanium and zirconia abutments on different implants: An in vitro study. Clinical Implant Dentistry and Related Research, 2021, 23, 373-379.	1.6	6
119	VISIBLE LIGHT-CURABLE N-METHACRYLOYL GLUTAMIC ACID MODIFIED POLYELECTRO LYTES FOR USE IN DENTAL APPLICATIONS. Journal of Macromolecular Science - Pure and Applied Chemistry, 2000, 37, 911-926.	1.2	5
120	Microstructure, elemental composition, hardness and crystal structure study of the interface between a noble implant component and cast noble alloys. Journal of Prosthetic Dentistry, 2011, 106, 170-178.	1.1	5
121	Effect of metal opaquer on the final color of 3 ceramic crown types on 3 abutment configurations. Journal of Prosthetic Dentistry, 2018, 120, 375-381.	1.1	5
122	Effects of orthognathic surgery on quality of life compared with nonsurgical controls in an American population. American Journal of Orthodontics and Dentofacial Orthopedics, 2020, 158, 555-563.	0.8	5
123	The Application of Blue Polymer Curing Lights for Diagnostic Transillumination. Journal of the American Dental Association, 1983, 106, 839-842.	0.7	4
124	Relative microhardness of glass ionomer restorative materials as an indicator of finishing time. Journal of the American Dental Association, 1989, 118, 599-602.	0.7	4
125	Repair of glass ionomer restorative materials: Flexure strength of specimens repaired by two methods. Journal of Prosthetic Dentistry, 1989, 62, 261-264.	1.1	4
126	Characterization of cast-to implant components from five manufacturers. Journal of Prosthetic Dentistry, 2009, 102, 216-223.	1.1	3

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127	Effect of alloy recasting on the color of opaque porcelain applied on different dental alloy systems. Journal of Prosthetic Dentistry, 2012, 108, 362-369.	1.1	3
128	Effect of framework material on the color of implant-supported complete-arch fixed dental prostheses. Journal of Prosthetic Dentistry, 2019, 122, 69-75.	1.1	3
129	Optical properties of bisacryl-, composite-, ceramic- resin restorative materials: An aging simulation study. Journal of Esthetic and Restorative Dentistry, 2020, 33, 913-918.	1.8	3
130	ICP-MS measurements of elemental release from two palladium alloys into a corrosion testing medium for different solution volumes and agitation conditions. Journal of Prosthetic Dentistry, 2021, , .	1.1	3
131	Effect of Crown Height on the Screw Stability of Titanium Screwâ€Retained Crowns. Journal of Prosthodontics, 2021, 30, 515-519.	1.7	3
132	Rehearsal's effect on recall and comprehension of orthodontic informed consent. American Journal of Orthodontics and Dentofacial Orthopedics, 2021, 159, e331-e341.	0.8	3
133	Color and translucency of enamel in vital maxillary central incisors. Journal of Prosthetic Dentistry, 2023, 130, 878-884.	1.1	3
134	Novel sensor to investigate microstructural contributions to corrosion of highâ€palladium dental alloys. Medical Devices & Sensors, 2020, 3, e10060.	2.7	2
135	Adhesive strength of 3 long-term resilient liners to CAD-CAM denture base polymers and heat-polymerized polymethyl methacrylate with thermocycling. Journal of Prosthetic Dentistry, 2024, 131, 494-499.	1.1	2
136	Effect of three-dimensionally printed surface patterns on the peak tensile load of a plasticized acrylic-resin resilient liner. Journal of Prosthetic Dentistry, 2022, , .	1.1	2
137	Radiographic Blind Test of Curvature of the Posterior Border of the Mandibular Ramus as a Morphological Indicator of Gender. Journal of Prosthodontics, 2016, 25, 670-674.	1.7	1
138	Associations of pretreatment parameters with changes during orthodontic treatment. Orthodontics and Craniofacial Research, 2019, 22, 120-126.	1.2	1
139	Idealized force decay of orthodontic elastomeric chains follows Nutting Equation. Medical Devices & Sensors, 2021, 4, e10145.	2.7	1
140	Compressive Characteristics of an Internally Threaded Post System. Journal of Prosthodontics, 1996, 5, 105-110.	1.7	0
141	Accuracy and pourability of gypsum preweighed packages. Journal of Prosthodontics, 2001, 10, 86-90.	1.7	0
142	COMMENTARY. Color Changes of Dental Resin Composites before and after Polymerization and Storage in Water. Journal of Esthetic and Restorative Dentistry, 2011, 23, 189-190.	1.8	0
143	Accuracy and pourability of gypsum preweighed packages. Journal of Prosthodontics, 2001, 10, 86-90.	1.7	0
144	Color and translucency of milled polymethyl methacrylate crowns on non–tooth-colored interim abutments with different surface treatments. Journal of Prosthetic Dentistry, 2024, 131, 102-109.	1.1	0

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145	Coverage error of three resin composite systems to vital unrestored maxillary anterior teeth. Journal of Esthetic and Restorative Dentistry, 2022, , .	1.8	0