

Dwayne Arola

List of Publications by Year in descending order

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190
papers

7,423
citations

46984

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h-index

74108

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all docs

195
docs citations

195
times ranked

5316
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering the Interface: Effects of Interfacial Adhesion and Substrate Thickness on the Ductility of Polymer-supported Metal Films. <i>Experimental Mechanics</i> , 2022, 62, 49-58.	1.1	5
2	Contributions of intra-build design parameters to mechanical properties in electron beam additive manufacturing of Ti6Al4V. <i>Materials Today Communications</i> , 2022, 30, 103190.	0.9	3
3	Odontoblast apoptosis and intratubular mineralization of sclerotic dentin with aging. <i>Archives of Oral Biology</i> , 2022, 136, 105371.	0.8	6
4	Tuning protective flexibility in nature: Case of the fish scale. <i>Natural Sciences</i> , 2022, 2, .	1.0	3
5	Contributions to enamel durability with aging: An application of data science tools. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 129, 105147.	1.5	0
6	3D printing of continuous carbon fiber reinforced polyphenylene sulfide: Exploring printability and importance of fiber volume fraction. <i>Additive Manufacturing</i> , 2022, 54, 102763.	1.7	9
7	Microstructure, mechanical properties and elemental composition of the terrestrial isopod <i>Armadillidium vulgare</i> cuticle. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 132, 105299.	1.5	2
8	Long-term antibacterial activity and cytocompatibility of novel low-shrinkage-stress, remineralizing composites. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2021, 32, 886-905.	1.9	7
9	Powder reuse and its contribution to porosity in additive manufacturing of Ti6Al4V. <i>Materialia</i> , 2021, 15, 100992.	1.3	24
10	Shrinkage Strains in the Dentin of Endodontically Treated Teeth with Water Loss. <i>Journal of Endodontics</i> , 2021, 47, 806-811.	1.4	6
11	The effect of preparation taper on the resistance to fracture of monolithic zirconia crowns. <i>Dental Materials</i> , 2021, 37, e427-e434.	1.6	4
12	Mammalian enamel: A universal tissue and diverse source of inspiration. <i>Acta Biomaterialia</i> , 2021, 136, 402-411.	4.1	5
13	A machine learning approach to investigate the materials science of enamel aging. <i>Dental Materials</i> , 2021, 37, 1761-1771.	1.6	6
14	Ceramic Inlay Bonded Interfaces in Minimally Invasive Preparations: Damage and Contributing Mechanisms in Sliding Contact. <i>Operative Dentistry</i> , 2021, , .	0.6	0
15	Effect of Airborne-Particle Abrasion Protocols and MDP-based Primer on the Bond Strength of Highly Translucent Zirconia. <i>Journal of Adhesive Dentistry</i> , 2021, 23, 437-446.	0.3	1
16	On the wear behavior and damage mechanism of bonded interface: Ceramic vs resin composite inlays. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 101, 103430.	1.5	11
17	Does the bond strength of highly translucent zirconia show a different dependence on the airborne-particle abrasion parameters in comparison to conventional zirconia?. <i>Journal of Prosthodontic Research</i> , 2020, 64, 60-70.	1.1	19
18	Control of Porosity in Freeze Casting. <i>Jom</i> , 2020, 72, 1477-1486.	0.9	3

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19	Fatigue resistance of metal-free cantilever bridges supported by labial laminate veneers. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103596.	1.5	0
20	Root fractures in seniors: Consequences of acute embrittlement of dentin. <i>Dental Materials</i> , 2020, 36, 1464-1473.	1.6	6
21	Vat polymerization-printed partially stabilized zirconia: Mechanical properties, reliability and structural defects. <i>Additive Manufacturing</i> , 2020, 36, 101450.	1.7	20
22	Bioactive low-shrinkage-stress nanocomposite suppresses <i>S. mutans</i> biofilm and preserves tooth dentin hardness. <i>Acta Biomaterialia</i> , 2020, 114, 146-157.	4.1	32
23	Bioinspired hierarchical impact tolerant materials. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 046009.	1.5	10
24	A Fractographic Analysis of Additively Manufactured Ti6Al4V by Electron Beam Melting: Effects of Powder Reuse. <i>Journal of Failure Analysis and Prevention</i> , 2020, 20, 794-803.	0.5	13
25	Powder Reuse in Electron Beam Melting Additive Manufacturing of Ti6Al4V: Particle Microstructure, Oxygen Content and Mechanical Properties. <i>Additive Manufacturing</i> , 2020, 35, 101216.	1.7	13
26	Contributions of intermolecular bonding and lubrication to the mechanical behavior of a natural armor. <i>Acta Biomaterialia</i> , 2020, 106, 242-255.	4.1	7
27	Electron beam additive manufacturing of Ti6Al4V: Evolution of powder morphology and part microstructure with powder reuse. <i>Materialia</i> , 2020, 9, 100631.	1.3	49
28	On the regeneration of fish scales: structure and mechanical behavior. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	5
29	Contribution of Root Canal Treatment to the Fracture Resistance of Dentin. <i>Journal of Endodontics</i> , 2019, 45, 189-193.	1.4	20
30	Health monitoring of wind turbine blades in operation using three-dimensional digital image correlation. <i>Mechanical Systems and Signal Processing</i> , 2019, 130, 470-483.	4.4	69
31	Interfibril hydrogen bonding improves the strain-rate response of natural armour. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180775.	1.5	10
32	Novel bioactive root canal sealer with antibiofilm and remineralization properties. <i>Journal of Dentistry</i> , 2019, 83, 67-76.	1.7	29
33	Wear and damage at the bonded interface between tooth enamel and resin composite. <i>Journal of Dentistry</i> , 2019, 83, 40-49.	1.7	8
34	Bonding durability, antibacterial activity and biofilm pH of novel adhesive containing antibacterial monomer and nanoparticles of amorphous calcium phosphate. <i>Journal of Dentistry</i> , 2019, 81, 91-101.	1.7	19
35	Designed for resistance to puncture: The dynamic response of fish scales. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 90, 451-459.	1.5	29
36	Residual Stresses in Cu/Ni Multilayer Thin Films Measured Using the Sin ² ψ Method. <i>Experimental Mechanics</i> , 2019, 59, 111-120.	1.1	14

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37	Fractographic analyses of failed one-piece zirconia implant restorations. <i>Dental Materials</i> , 2018, 34, 922-931.	1.6	13
38	Deformation behaviour of aged coronal dentin. <i>Gerodontology</i> , 2018, 35, 95-100.	0.8	3
39	Contributions of the layer topology and mineral content to the elastic modulus and strength of fish scales. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 78, 56-64.	1.5	6
40	The limiting layer of fish scales: Structure and properties. <i>Acta Biomaterialia</i> , 2018, 67, 319-330.	4.1	53
41	Durability of adhesive bonds to tooth structure involving the DEJ. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 557-565.	1.5	5
42	Effect of cryopreservation of teeth on the structural integrity of dentin. <i>Dental Materials</i> , 2018, 34, 1828-1835.	1.6	5
43	Durability of self-healing dental composites: A comparison of performance under monotonic and cyclic loading. <i>Materials Science and Engineering C</i> , 2018, 93, 1020-1026.	3.8	21
44	Evaluation of thermal expansion coefficient of carbon fiber reinforced composites using electronic speckle interferometry. <i>Optics Express</i> , 2018, 26, 531.	1.7	52
45	Bearing capacity of ceramic crowns before and after cyclic loading: An in vitro study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 87, 197-204.	1.5	6
46	The effect of adhesive failure and defects on the stress distribution in all-ceramic crowns. <i>Journal of Dentistry</i> , 2018, 75, 74-83.	1.7	9
47	Characterization of mechanical properties of aluminum cast alloy at elevated temperature. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2018, 39, 967-980.	1.9	8
48	Fatigue of human dentin by cyclic loading and during oral biofilm challenge. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 1978-1985.	1.6	12
49	Degradation in the fatigue crack growth resistance of human dentin by lactic acid. <i>Materials Science and Engineering C</i> , 2017, 73, 716-725.	3.8	11
50	Fatigue testing of biomaterials and their interfaces. <i>Dental Materials</i> , 2017, 33, 367-381.	1.6	53
51	Time dependent deformation behavior of dentin. <i>Archives of Oral Biology</i> , 2017, 76, 20-29.	0.8	9
52	Extracellular collagen demineralization-based chelate-and-rinse technique bridges the gap between wet and dry dentin bonding. <i>Acta Biomaterialia</i> , 2017, 57, 435-448.	4.1	33
53	Effect of acidic agents on the wear behavior of a polymer infiltrated ceramic network (PICN) material. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 74, 154-163.	1.5	26
54	Effects of EDC crosslinking on the stiffness of dentin hybrid layers evaluated by nanoDMA over time. <i>Dental Materials</i> , 2017, 33, 904-914.	1.6	13

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55	Assessing the feasibility of yttria-stabilized zirconia in novel designs as mandibular anterior fixed lingual retention after orthodontic treatment. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2017, 151, 63-73.	0.8	11
56	A comparative study on the wear behavior of a polymer infiltrated ceramic network (PICN) material and tooth enamel. <i>Dental Materials</i> , 2017, 33, 1351-1361.	1.6	37
57	Fatigue resistance of dentin bonds prepared with two- vs. three-step adhesives: Effect of carbodiimide. <i>Dental Materials</i> , 2017, 33, 1340-1350.	1.6	6
58	The Tooth. <i>Dental Clinics of North America</i> , 2017, 61, 651-668.	0.8	37
59	Reduction in Fracture Resistance of the Root with Aging. <i>Journal of Endodontics</i> , 2017, 43, 1494-1498.	1.4	39
60	The natural armors of fish: A comparison of the lamination pattern and structure of scales. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 73, 17-27.	1.5	34
61	Investigation on the remineralization effect of arginine toothpaste for early enamel caries: nanotribological and nanomechanical properties. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 435401.	1.3	1
62	Contact fatigue of human enamel: Experiments, mechanisms and modeling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 60, 438-450.	1.5	31
63	Comparison of human enamel and polymer-infiltrated-ceramic-network material ENAMIC through micro- and nano-mechanical testing. <i>Ceramics International</i> , 2016, 42, 10631-10637.	2.3	21
64	Designing Multiagent Dental Materials for Enhanced Resistance to Biofilm Damage at the Bonded Interface. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11779-11787.	4.0	59
65	Degradation in the fatigue strength of dentin by diamond bur preparations: Importance of cutting direction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 39-49.	1.6	9
66	Real-time three-dimensional digital image correlation for biomedical applications. <i>Journal of Biomedical Optics</i> , 2016, 21, 107003.	1.4	12
67	Protein-repellent and antibacterial functions of a calcium phosphate rechargeable nanocomposite. <i>Journal of Dentistry</i> , 2016, 52, 15-22.	1.7	41
68	Effect of carbodiimide on the fatigue crack growth resistance of resin-dentin bonds. <i>Dental Materials</i> , 2016, 32, 211-222.	1.6	18
69	Importance of tubule density to the fracture toughness of dentin. <i>Archives of Oral Biology</i> , 2016, 67, 9-14.	0.8	24
70	Effects of polar solvents on the mechanical behavior of fish scales. <i>Materials Science and Engineering C</i> , 2016, 61, 23-31.	3.8	21
71	On the importance of aging to the crack growth resistance of human enamel. <i>Acta Biomaterialia</i> , 2016, 32, 264-274.	4.1	21
72	On the stiffness of demineralized dentin matrices. <i>Dental Materials</i> , 2016, 32, 161-170.	1.6	18

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73	Effect of chemical composition and microstructure on the mechanical behavior of fish scales from <i>Megalops Atlanticus</i> . <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 56, 134-145.	1.5	45
74	Synergistic degradation of dentin by cyclic stress and buffer agitation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 44, 121-132.	1.5	4
75	Temperature effects on the fracture resistance of scales from <i>Cyprinus carpio</i> . <i>Acta Biomaterialia</i> , 2015, 14, 154-163.	4.1	19
76	Inhibition of matrix metalloproteinase activity in human dentin via novel antibacterial monomer. <i>Dental Materials</i> , 2015, 31, 284-292.	1.6	49
77	Caries management by risk assessment (CAMBRA) and its effect on the surface roughness of various restorative materials. <i>Journal of Prosthetic Dentistry</i> , 2015, 114, 543-548.	1.1	0
78	On the durability of resin-dentin bonds: Identifying the weakest links. <i>Dental Materials</i> , 2015, 31, 1109-1118.	1.6	31
79	The role of organic proteins on the crack growth resistance of human enamel. <i>Acta Biomaterialia</i> , 2015, 19, 33-45.	4.1	58
80	Effect of aging on the microstructure, hardness and chemical composition of dentin. <i>Archives of Oral Biology</i> , 2015, 60, 1811-1820.	0.8	59
81	Adherence of <i>Streptococcus mutans</i> on lithium disilicate porcelain specimens. <i>Journal of Prosthetic Dentistry</i> , 2015, 114, 696-701.	1.1	22
82	Importance of age on the dynamic mechanical behavior of intertubular and peritubular dentin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 42, 229-242.	1.5	57
83	Damage mechanisms in uniaxial compression of single enamel rods. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 42, 1-9.	1.5	14
84	On the Mechanics of Fatigue and Fracture in Teeth. <i>Applied Mechanics Reviews</i> , 2014, 66, 0308031-3080319.	4.5	83
85	Adopting the Principles of Collagen Biomineralization for Intrafibrillar Infiltration of Yttria-stabilized Zirconia into Three-Dimensional Collagen Scaffolds. <i>Advanced Functional Materials</i> , 2014, 24, 1895-1903.	7.8	22
86	Synthesis of antimicrobial silsesquioxane-silica hybrids by hydrolytic co-condensation of alkoxy silanes. <i>Polymer Chemistry</i> , 2014, 5, 454-462.	1.9	18
87	Fracture analysis for biological materials with an expanded cohesive zone model. <i>Journal of Biomechanics</i> , 2014, 47, 2244-2248.	0.9	13
88	A comparison of the fracture resistance of three machinable ceramics after thermal and mechanical fatigue. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 878-885.	1.1	36
89	Degradation in the fatigue strength of dentin by cutting, etching and adhesive bonding. <i>Dental Materials</i> , 2014, 30, 1061-1072.	1.6	13
90	An inset CT specimen for evaluating fracture in small samples of material. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 30, 358-368.	1.5	10

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91	Differences in the microstructure and fatigue properties of dentine between residents of North and South America. Archives of Oral Biology, 2014, 59, 1001-1012.	0.8	6
92	Characterization of the strain-life fatigue properties of thin sheet metal using an optical extensometer. Optics and Lasers in Engineering, 2014, 60, 44-48.	2.0	23
93	Fatigue of the resin-dentin interface: A new approach for evaluating the durability of dentin bonds. Dental Materials, 2013, 29, 437-449.	1.6	48
94	Accelerated fatigue of dentin with exposure to lactic acid. Biomaterials, 2013, 34, 8650-8659.	5.7	27
95	On the fatigue behavior of resin-dentin bonds after degradation by biofilm. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 18, 219-231.	1.5	34
96	Indentation damage and crack repair in human enamel. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 21, 178-184.	1.5	23
97	Hidden contributions of the enamel rods on the fracture resistance of human teeth. Acta Biomaterialia, 2013, 9, 4806-4814.	4.1	97
98	A characterization of the mechanical behavior of resin-infiltrated dentin using nanoscopic Dynamic Mechanical Analysis. Dental Materials, 2013, 29, 719-728.	1.6	35
99	Fatigue of the resin-enamel bonded interface and the mechanisms of failure. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 21, 121-132.	1.5	33
100	Dental primer and adhesive containing a new antibacterial quaternary ammonium monomer dimethylaminododecyl methacrylate. Journal of Dentistry, 2013, 41, 345-355.	1.7	138
101	Multiphase Intrafibrillar Mineralization of Collagen. Angewandte Chemie - International Edition, 2013, 52, 5762-5766.	7.2	42
102	Biomimetic Silicification of Demineralized Hierarchical Collagenous Tissues. Biomacromolecules, 2013, 14, 1661-1668.	2.6	23
103	The importance of microstructural variations on the fracture toughness of human dentin. Biomaterials, 2013, 34, 864-874.	5.7	64
104	Reduction of load-bearing capacity of all-ceramic crowns due to cement aging. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 17, 56-65.	1.5	22
105	Plastic Damage Induced Fracture Behaviors of Dental Ceramic Layer Structures Subjected to Monotonic Load. Journal of Prosthodontics, 2013, 22, 456-464.	1.7	7
106	Degradation in the Fatigue Resistance of Dentin by Bur and Abrasive Air-jet Preparations. Journal of Dental Research, 2012, 91, 894-899.	2.5	16
107	Design of Laser Treatment Protocols for Bacterial Disinfection in Root Canals Using Theoretical Modeling and MicroCT Imaging. Journal of Thermal Science and Engineering Applications, 2012, 4, .	0.8	1
108	Contributions of aging to the fatigue crack growth resistance of human dentin. Acta Biomaterialia, 2012, 8, 2737-2746.	4.1	57

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109	AN EXAMINATION OF ABRASIVE WATERJET PEENING WITH ELASTIC PRE-STRESS AND THE EFFECTS OF BOUNDARY CONDITIONS. <i>Machining Science and Technology</i> , 2012, 16, 71-95.	1.4	12
110	Intrafibrillar silicification of collagen scaffolds for sustained release of stem cell homing chemokine in hard tissue regeneration. <i>FASEB Journal</i> , 2012, 26, 4517-4529.	0.2	49
111	Quaternary ammonium silane-functionalized, methacrylate resin composition with antimicrobial activities and self-repair potential. <i>Acta Biomaterialia</i> , 2012, 8, 3270-3282.	4.1	66
112	Importance of aging to dehydration shrinkage of human dentin. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2012, 33, 333-344.	1.9	6
113	On the mechanical behavior of scales from <i>Cyprinus carpio</i> . <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 7, 17-29.	1.5	69
114	Nanoscope dynamic mechanical properties of intertubular and peritubular dentin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 7, 3-16.	1.5	62
115	The role of property gradients on the mechanical behavior of human enamel. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 9, 63-72.	1.5	47
116	Fracture toughening mechanism of cortical bone: An experimental and numerical approach. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 983-992.	1.5	31
117	Subtleties of biomineralisation revealed by manipulation of the eggshell membrane. <i>Biomaterials</i> , 2011, 32, 8743-8752.	5.7	36
118	Contributions of microstructure and chemical composition to the mechanical properties of dentin. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1127-1135.	1.7	41
119	Three-dimensional Elastic Image Registration Based on Strain Energy Minimization: Application to Prostate Magnetic Resonance Imaging. <i>Journal of Digital Imaging</i> , 2011, 24, 573-585.	1.6	8
120	The Reduction in Fatigue Crack Growth Resistance of Dentin with Depth. <i>Journal of Dental Research</i> , 2011, 90, 1031-1036.	2.5	49
121	MACHINING OF CORTICAL BONE: SIMULATIONS OF CHIP FORMATION MECHANICS USING METAL MACHINING MODELS. <i>Machining Science and Technology</i> , 2011, 15, 206-230.	1.4	26
122	Changes in stiffness of resin-infiltrated demineralized dentin after remineralization by a bottom-up biomimetic approach. <i>Acta Biomaterialia</i> , 2010, 6, 1453-1461.	4.1	35
123	Fracture processes and mechanisms of crack growth resistance in human enamel. <i>Jom</i> , 2010, 62, 76-82.	0.9	33
124	Fatigue of zirconia and dental bridge geometry: Design implications. <i>Dental Materials</i> , 2010, 26, 1133-1136.	1.6	32
125	Fatigue of biomaterials: Hard tissues. <i>International Journal of Fatigue</i> , 2010, 32, 1400-1412.	2.8	59
126	Fatigue of the bone/cement interface and loosening of total joint replacements. <i>International Journal of Fatigue</i> , 2010, 32, 1639-1649.	2.8	22

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127	Functional biomimetic analogs help remineralize apatite-depleted demineralized resin-infiltrated dentin via a bottom-up approach. <i>Acta Biomaterialia</i> , 2010, 6, 2740-2750.	4.1	94
128	Fatigue and human umbilical cord stem cell seeding characteristics of calcium phosphate-chitosan biodegradable fiber scaffolds. <i>Biomaterials</i> , 2010, 31, 840-847.	5.7	94
129	Vertical fracture of root filled teeth restored with posts: the effects of patient age and dentine thickness. <i>International Endodontic Journal</i> , 2010, 43, 218-225.	2.3	63
130	Microstructure and mechanical behavior of radicular and coronal dentin. <i>Endodontic Topics</i> , 2009, 20, 30-51.	0.5	32
131	Dehydration and the dynamic dimensional changes within dentin and enamel. <i>Dental Materials</i> , 2009, 25, 937-945.	1.6	37
132	Comments on: "Hertzian contact response of dentin with loading rate and orientation" by N.R. da Silva, F. Lalani, P.G. Coelho, E.A. Clark, C.A. de Oliveira Fernandes, V.P. Thompson [<i>Arch. Oral Biol.</i> 53 (2008) 729-735]. <i>Archives of Oral Biology</i> , 2009, 54, 1125-1127.	0.8	1
133	Abrasive waterjet peening with elastic prestress: A parametric evaluation. <i>International Journal of Machine Tools and Manufacture</i> , 2009, 49, 134-141.	6.2	39
134	Ageing and the reduction in fracture toughness of human dentin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2009, 2, 550-559.	1.5	111
135	On the R-curve behavior of human tooth enamel. <i>Biomaterials</i> , 2009, 30, 4037-4046.	5.7	163
136	Role of prism decussation on fatigue crack growth and fracture of human enamel. <i>Acta Biomaterialia</i> , 2009, 5, 3045-3056.	4.1	102
137	The Effect of Age on Bacterial Penetration of Radicular Dentin. <i>Journal of Endodontics</i> , 2009, 35, 78-81.	1.4	88
138	A study of mechanical and thermal properties of materials in electronic packaging: application of micro DIC. <i>International Journal of Materials and Product Technology</i> , 2009, 34, 200.	0.1	0
139	A comparison of fatigue crack growth in human enamel and hydroxyapatite. <i>Biomaterials</i> , 2008, 29, 4847-4854.	5.7	75
140	The influence of surface topography on wear debris generation at the cement/bone interface under cyclic loading. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1935-1943.	1.7	4
141	Mechanical properties of human enamel as a function of age and location in the tooth. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2317-2324.	1.7	138
142	An examination of fatigue striations in human dentin: <i>In vitro</i> and <i>in vivo</i> . <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 85B, 149-159.	1.6	21
143	Contact fracture of full-ceramic crowns subjected to occlusal loads. <i>Journal of Biomechanics</i> , 2008, 41, 2995-3001.	0.9	24
144	Measurement of microstrains across loaded resin-dentin interfaces using microscopic moiré interferometry. <i>Dental Materials</i> , 2008, 24, 859-866.	1.6	21

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145	On the brittleness of enamel and selected dental materials. Dental Materials, 2008, 24, 1477-1485.	1.6	121
146	Fracture and aging of dentine. , 2008, , 314-342.		4
147	MACHINING OF CORTICAL BONE: SURFACE TEXTURE, SURFACE INTEGRITY AND CUTTING FORCES. Machining Science and Technology, 2008, 12, 100-118.	1.4	45
148	Automatic determination of parameters in photoelasticity. Optics and Lasers in Engineering, 2007, 45, 860-867.	2.0	18
149	Transition behavior in fatigue of human dentin: Structure and anisotropy. Biomaterials, 2007, 28, 3867-3875.	5.7	23
150	A comparison of fatigue crack growth in resin composite, dentin and the interface. Dental Materials, 2007, 23, 608-614.	1.6	45
151	A method for characterizing the mechanical behaviour of hoof horn. Journal of Materials Science, 2007, 42, 1108-1115.	1.7	11
152	Methods for Examining the Fatigue and Fracture Behavior of Hard Tissues. Experimental Mechanics, 2007, 47, 325-336.	1.1	50
153	Age, dehydration and fatigue crack growth in dentin. Biomaterials, 2006, 27, 2507-2517.	5.7	147
154	Tubule orientation and the fatigue strength of human dentin. Biomaterials, 2006, 27, 2131-2140.	5.7	104
155	Hydration and dynamic fatigue of dentin. Journal of Biomedical Materials Research - Part A, 2006, 77A, 148-159.	2.1	17
156	Fatigue of the cement/bone interface: The surface texture of bone and loosening. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 76B, 287-297.	1.6	27
157	IMPROVING FATIGUE STRENGTH OF METALS USING ABRASIVE WATERJET PEENING. Machining Science and Technology, 2006, 10, 197-218.	1.4	83
158	Effects of aging on the mechanical behavior of human dentin. Biomaterials, 2005, 26, 4051-4061.	5.7	152
159	Stress ratio contributes to fatigue crack growth in dentin. Journal of Biomedical Materials Research - Part A, 2005, 73A, 201-212.	2.1	20
160	Applications of digital image correlation to biological tissues. Journal of Biomedical Optics, 2004, 9, 691.	1.4	168
161	Parametric Effects on Particle Deposition in Abrasive Waterjet Surface Treatments. Machining Science and Technology, 2004, 8, 171-192.	1.4	13
162	On the mechanical behavior of carbon-carbon optic grids determined using a bi-axial optical extensometer. Journal of Materials Science, 2004, 39, 4495-4505.	1.7	10

#	ARTICLE	IF	CITATIONS
163	The effects of tubule orientation on fatigue crack growth in dentin. Journal of Biomedical Materials Research Part B, 2003, 67A, 78-86.	3.0	29
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