

Michael V Swain

List of Publications by Year in descending order

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Version: 2024-02-01

435
papers

20,624
citations

10389

72
h-index

19190

118
g-index

441
all docs

441
docs citations

441
times ranked

13638
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical failure of posterior teeth due to caries and occlusal wear- A modelling study. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104942.	3.1	7
2	The influence of yttria content on the microstructure, phase stability and mechanical properties of dental zirconia. Ceramics International, 2022, 48, 5361-5368.	4.8	19
3	Bone remodeling following mandibular reconstruction using fibula free flap. Journal of Biomechanics, 2022, 133, 110968.	2.1	10
4	The Effect of Varying Occlusal Loading Conditions on Stress Distribution in Roots of Sound and Instrumented Molar Teeth: A Finite Element Analysis. Journal of Endodontics, 2022, 48, 893-901.	3.1	10
5	Development of transformation bands in ceria-stabilized-zirconia based composites during bending at room temperature. Journal of the European Ceramic Society, 2021, 41, 691-705.	5.7	13
6	A time-dependent mechanobiology-based topology optimization to enhance bone growth in tissue scaffolds. Journal of Biomechanics, 2021, 117, 110233.	2.1	23
7	Effect of the Location of Dental Mini-Implants on Strain Distribution under Mandibular Kennedy Class I Implant-Retained Removable Partial Dentures. International Journal of Dentistry, 2021, 2021, 1-7.	1.5	6
8	On fatigue failure prediction of prosthetic devices through XFEM analysis. International Journal of Fatigue, 2021, 147, 106160.	5.7	8
9	Indentation of the cornea: A Bi-layer contact problem. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 118, 104463.	3.1	4
10	A machine learning-based multiscale model to predict bone formation in scaffolds. Nature Computational Science, 2021, 1, 532-541.	8.0	17
11	Microstructural heterogeneity of the collagenous network in the loaded and unloaded periodontal ligament and its biomechanical implications. Journal of Structural Biology, 2021, 213, 107772.	2.8	6
12	Efficacy of dental materials in terms of apparent mineral density restoration: composite resin, glass ionomer cement and infiltrant. Composites Part C: Open Access, 2021, , 100192.	3.2	6
13	Effects of buccal thickness augmentation on bone remodeling after maxillary anterior implantation. Biomechanics and Modeling in Mechanobiology, 2020, 19, 133-145.	2.8	12
14	Fracture modeling of brittle biomaterials by the phase-field method. Engineering Fracture Mechanics, 2020, 224, 106752.	4.3	18
15	Phase transformation induces plasticity with negligible damage in ceria-stabilized zirconia-based ceramics. Acta Materialia, 2020, 183, 261-273.	7.9	40
16	The geometrical structure of interfaces in dental enamel: A FIB-STEM investigation. Acta Biomaterialia, 2020, 104, 17-27.	8.3	14
17	Nanoscale pathways for human tooth decay – Central planar defect, organic-rich precipitate and high-angle grain boundary. Biomaterials, 2020, 235, 119748.	11.4	26
18	A modular design strategy to integrate mechanotransduction concepts in scaffold-based bone tissue engineering. Acta Biomaterialia, 2020, 118, 100-112.	8.3	23

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19	Monolithic crowns fracture analysis: The effect of material properties, cusp angle and crown thickness. <i>Dental Materials</i> , 2020, 36, 1038-1051.	3.5	28
20	Fatigue degradation of bilayered ceramic structures under different biaxial loading schemes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 104, 103651.	3.1	3
21	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.	1.9	1
22	The bulk compressive creep and recovery behavior of human dentine and resin-based dental materials. <i>Dental Materials</i> , 2020, 36, 366-376.	3.5	3
23	Mechanical and finite element models of corneal keratoprotheses. <i>Advanced Engineering Research</i> , 2020, 20, 350-359.	0.4	0
24	Nondestructive characterization of bone tissue scaffolds for clinical scenarios. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 89, 150-161.	3.1	27
25	The effects of core material and cooling rate on fabrication defects in the veneer of bi-layered all-ceramic systems. <i>Ceramics International</i> , 2019, 45, 15876-15882.	4.8	2
26	Clinicians's Ability to Detect a Palpable Difference in Spinal Stiffness Compared With a Mechanical Device. <i>Journal of Manipulative and Physiological Therapeutics</i> , 2019, 42, 89-95.	0.9	8
27	Size or hierarchical dependence of the elastic modulus of three ceramic-composite CAD/CAM materials. <i>Dental Materials</i> , 2019, 35, 953-962.	3.5	13
28	<i>In vivo</i> effects of different orthodontic loading on root resorption and correlation with mechanobiological stimulus in periodontal ligament. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190108.	3.4	34
29	Why a zero CTE mismatch may be better for veneered Y-TZP structures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 96, 261-268.	3.1	9
30	Modelling of stress distribution and fracture in dental occlusal fissures. <i>Scientific Reports</i> , 2019, 9, 4682.	3.3	29
31	Nanoindentation-based study of the mechanical behavior of bulk supercrystalline ceramic-organic nanocomposites. <i>Journal of the European Ceramic Society</i> , 2019, 39, 3247-3256.	5.7	50
32	Microcomputed Tomography Calibration Using Polymers and Minerals for Enamel Mineral Content Quantitation. <i>Medical Principles and Practice</i> , 2019, 28, 247-255.	2.4	8
33	Investigation on masticatory muscular functionality following oral reconstruction – An inverse identification approach. <i>Journal of Biomechanics</i> , 2019, 90, 1-8.	2.1	17
34	Influence of veneer pore defects on fracture behavior of bilayered lithium disilicate glass-ceramic crowns. <i>Dental Materials</i> , 2019, 35, e83-e95.	3.5	3
35	Thermal induced deflection of a porcelain-zirconia bilayer: Influence of cooling rate. <i>Dental Materials</i> , 2019, 35, 574-584.	3.5	10
36	Effects of acid-alkali treatment on bioactivity and osteoinduction of porous titanium: An in vitro study. <i>Materials Science and Engineering C</i> , 2019, 94, 200-210.	7.3	28

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37	Missing Surface Estimation Based on Modified Tikhonov Regularization: Application for Destructed Dental Tissue. <i>IEEE Transactions on Image Processing</i> , 2018, 27, 2433-2446.	9.8	9
38	Instrumented indentation for determination of mechanical properties of human cornea after ultraviolet- A crosslinking. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1413-1420.	4.0	13
39	In-vitro wear of natural tooth surface opposed with zirconia reinforced lithium silicate glass ceramic after accelerated ageing. <i>Dental Materials</i> , 2018, 34, 551-559.	3.5	29
40	Validation of finite-element simulations with synchrotron radiography – A descriptive study of micromechanics in two-piece dental implants. <i>Heliyon</i> , 2018, 4, e00524.	3.2	7
41	Fractographic Analysis of a Split Tooth Presenting Radiographically as a Horizontal Root Fracture in an Unrestored Mandibular Second Molar. <i>Journal of Endodontics</i> , 2018, 44, 304-311.	3.1	7
42	Influence of ageing on glass and resin bonding of dental glass-ceramic veneer adhesion to zirconia: A fracture mechanics analysis and interpretation. <i>Acta Biomaterialia</i> , 2018, 74, 454-463.	8.3	5
43	Biomechanical analysis of bone remodeling following mandibular reconstruction using fibula free flap. <i>Medical Engineering and Physics</i> , 2018, 56, 1-8.	1.7	24
44	Relationship between growth, maturation and musculoskeletal conditions in adolescents: a systematic review. <i>British Journal of Sports Medicine</i> , 2018, 52, 1246-1252.	6.7	36
45	Frictional coefficient during flossing of teeth. <i>Dental Materials</i> , 2018, 34, 1727-1734.	3.5	6
46	FTIR characterization of the setting reaction of bio-dentine. <i>Dental Materials</i> , 2018, 34, 1645-1651.	3.5	11
47	Synthesis of stabilized hydroxyapatite nanosuspensions for enamel caries remineralization. <i>Australian Dental Journal</i> , 2018, 63, 356-364.	1.5	6
48	Characterization of inter-crystallite peptides in human enamel rods reveals contribution by the Y allele of amelogenin. <i>Journal of Structural Biology</i> , 2018, 204, 26-37.	2.8	3
49	Evidence that metallic proxies are unsuitable for assessing the mechanics of microwear formation and a new theory of the meaning of microwear. <i>Royal Society Open Science</i> , 2018, 5, 171699.	2.4	33
50	Micro-CT based modelling for characterising injection-moulded porous titanium implants. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e02779.	2.1	7
51	Bone morphological effects on post-implantation remodeling of maxillary anterior buccal bone: A clinical and biomechanical study. <i>Journal of Prosthodontic Research</i> , 2017, 61, 393-402.	2.8	22
52	Three-dimensional characterization and distribution of fabrication defects in bilayered lithium disilicate glass-ceramic molar crowns. <i>Dental Materials</i> , 2017, 33, e178-e185.	3.5	7
53	Computational and clinical investigation on the role of mechanical vibration on orthodontic tooth movement. <i>Journal of Biomechanics</i> , 2017, 60, 57-64.	2.1	25
54	A simple basis for determination of the modulus and hydraulic conductivity of human ocular surface using nano-indentation. <i>Acta Biomaterialia</i> , 2017, 50, 312-321.	8.3	16

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55	Comparison of three and four point bending evaluation of two adhesive bonding systems for glass-ceramic zirconia bi-layered ceramics. <i>Dental Materials</i> , 2017, 33, 1004-1011.	3.5	16
56	Simulation of multi-stage nonlinear bone remodeling induced by fixed partial dentures of different configurations: a comparative clinical and numerical study. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 411-423.	2.8	11
57	Removal of dentin non-collagenous structures results in the unraveling of microfibril bundles in collagen type I. <i>Connective Tissue Research</i> , 2017, 58, 414-423.	2.3	13
58	Micro-CT analysis of naturally arrested brown spot enamel lesions. <i>Journal of Dentistry</i> , 2017, 56, 105-111.	4.1	19
59	Efficacy of Fluoride Varnishes with Added Calcium Phosphate in the Protection of the Structural and Mechanical Properties of Enamel. <i>BioMed Research International</i> , 2017, 2017, 1-7.	1.9	11
60	Ageing under mechanical stress: first experiments for a silver based multilayer mirror. , 2017, , .		0
61	The Relationship of Mandibular Morphology with Residual Ridge Resorption Associated with Implant-Retained Overdentures. <i>International Journal of Prosthodontics</i> , 2016, 29, 573-580.	1.7	7
62	Immunolocalization and distribution of proteoglycans in carious dentine. <i>Australian Dental Journal</i> , 2016, 61, 288-297.	1.5	13
63	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.	3.1	2
64	Torsion of a circular punch attached to an elastic half-space with a coating with periodically depth-varying elastic properties. <i>Archive of Applied Mechanics</i> , 2016, 86, 1247-1254.	2.2	17
65	Dental abrasion as a cutting process. <i>Interface Focus</i> , 2016, 6, 20160008.	3.0	11
66	Effect of core ceramic grinding on fracture behaviour of bilayered zirconia veneering ceramic systems under two loading schemes. <i>Dental Materials</i> , 2016, 32, 1453-1463.	3.5	11
67	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.	3.5	16
68	Yielding behaviors of polymeric scaffolds with implications to tissue engineering. <i>Materials Letters</i> , 2016, 184, 108-111.	2.6	20
69	Shear Strength and Interfacial Toughness Characterization of Sapphire-Epoxy Interfaces for Nacre-Inspired Composites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27322-27331.	8.0	8
70	Atomic-scale compositional mapping reveals Mg-rich amorphous calcium phosphate in human dental enamel. <i>Science Advances</i> , 2016, 2, e1601145.	10.3	107
71	Does high level youth sports participation increase the risk of femoroacetabular impingement? A review of the current literature. <i>Pediatric Rheumatology</i> , 2016, 14, 16.	2.1	41
72	Topological design of all-ceramic dental bridges for enhancing fracture resistance. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016, 32, e02749.	2.1	30

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73	Effects of design parameters on fracture resistance of glass simulated dental crowns. Dental Materials, 2016, 32, 373-384.	3.5	15
74	The role of proteoglycans in the nanoindentation creep behavior of human dentin. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 55, 264-270.	3.1	27
75	Quantitative characterization and micro-CT mineral mapping of natural fissural enamel lesions. Journal of Dentistry, 2016, 46, 23-29.	4.1	16
76	Fracture behavior of inlay and onlay fixed partial dentures – An in-vitro experimental and XFEM modeling study. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 279-290.	3.1	21
77	A comparative study of new and current methods for dental micro-CT image denoising. Dentomaxillofacial Radiology, 2016, 45, 20150302.	2.7	20
78	Biomechanical investigation into the role of the periodontal ligament in optimising orthodontic force: a finite element case study. Archives of Oral Biology, 2016, 66, 98-107.	1.8	59
79	Determination of oral mucosal Poisson's ratio and coefficient of friction from in-vivo contact pressure measurements. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 357-365.	1.6	13
80	Mechanical benefits of conservative restoration for dental fissure caries. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 53, 11-20.	3.1	29
81	Interpenetrating network ceramic-resin composite dental restorative materials. Dental Materials, 2016, 32, 34-42.	3.5	119
82	Microstructure, phase content, and thermal stability of a cast Co-Cr dental alloy after porcelain sintering cycles using electron backscatter diffraction. Journal of Materials Research, 2015, 30, 2188-2196.	2.6	6
83	Investigation of Mucosa-Induced Residual Ridge Resorption Under Implant-Retained Overdentures and Complete Dentures in the Mandible. International Journal of Oral and Maxillofacial Implants, 2015, 30, 657-666.	1.4	31
84	Design for minimizing fracture risk of all-ceramic cantilever dental bridge. Bio-Medical Materials and Engineering, 2015, 26, S19-S25.	0.6	4
85	Shape Optimization for Additive Manufacturing of Removable Partial Dentures - A New Paradigm for Prosthetic CAD/CAM. PLoS ONE, 2015, 10, e0132552.	2.5	44
86	Influence of structural hierarchy on the fracture behaviour of tooth enamel. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140130.	3.4	66
87	Computational modeling of dynamic behaviors of human teeth. Journal of Biomechanics, 2015, 48, 4214-4220.	2.1	17
88	A fast and accurate dental micro-CT image denoising based on total variation modeling. , 2015, , .		4
89	A comparative study on complete and implant retained denture treatments – A biomechanics perspective. Journal of Biomechanics, 2015, 48, 512-519.	2.1	50
90	Bone's responses to different designs of implant-supported fixed partial dentures. Biomechanics and Modeling in Mechanobiology, 2015, 14, 403-411.	2.8	36

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91	A Critical Review of Dental Implant Materials with an Emphasis on Titanium versus Zirconia. <i>Materials</i> , 2015, 8, 932-958.	2.9	373
92	The Schwickerath adhesion test: A fracture mechanics analysis. <i>Dental Materials</i> , 2015, 31, 986-991.	3.5	12
93	Damage tolerance of indirect restorative materials (including PICN) after simulated bur adjustments. <i>Dental Materials</i> , 2015, 31, 684-694.	3.5	76
94	Raman spectroscopic characterisation of resin-infiltrated hypomineralised enamel. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5661-5671.	3.7	18
95	Effect of tooth bleaching agents on protein content and mechanical properties of dental enamel. <i>Acta Biomaterialia</i> , 2015, 20, 120-128.	8.3	79
96	Biomechanics of oral mucosa. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150325.	3.4	79
97	Comparison of the microstructure and phase stability of as-cast, CAD/CAM and powder metallurgy manufactured Co-Cr dental alloys. <i>Dental Materials</i> , 2015, 31, e306-e315.	3.5	38
98	Influence of ultraviolet photofunctionalization on the surface characteristics of zirconia-based dental implant materials. <i>Dental Materials</i> , 2015, 31, e14-e24.	3.5	60
99	The combined effect of alumina and silica co-doping on the ageing resistance of 3Y-TZP bioceramics. <i>Acta Biomaterialia</i> , 2015, 11, 477-487.	8.3	87
100	Comparing Contact Pressure Induced by a Conventional Complete Denture and an Implant-Retained Overdenture. <i>Applied Mechanics and Materials</i> , 2014, 553, 384-389.	0.2	2
101	The contribution of proteoglycans to the mechanical behavior of mineralized tissues. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 38, 91-104.	3.1	41
102	Ceramic implants (Y-TZP): are they a viable alternative to titanium implants for the support of overdentures? A randomized clinical trial. <i>Clinical Oral Implants Research</i> , 2014, 25, 1366-1377.	4.5	71
103	Surface characteristics and microbial adherence ability of modified polymethylmethacrylate by fluoridated glass fillers. <i>Australian Dental Journal</i> , 2014, 59, 482-489.	1.5	22
104	Strain-rate stiffening of cortical bone: observations and implications from nanoindentation experiments. <i>Nanoscale</i> , 2014, 6, 14863-14871.	5.6	20
105	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.	2.8	6
106	Patients' perspectives on zirconia and titanium implants with a novel distribution supporting maxillary and mandibular overdentures: a qualitative study. <i>Clinical Oral Implants Research</i> , 2014, 25, 587-597.	4.5	14
107	Influence of veneering porcelain thickness and cooling rate on residual stresses in zirconia molar crowns. <i>Dental Materials</i> , 2014, 30, 271-280.	3.5	49
108	Projectile penetration into ballistic gelatin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 29, 385-392.	3.1	40

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109	Impact of oral fluids on dental ceramics: What is the clinical relevance?. <i>Dental Materials</i> , 2014, 30, 33-42.	3.5	72
110	Differences in morphogenesis of 3D cultured primary human osteoblasts under static and microfluidic growth conditions. <i>Biomaterials</i> , 2014, 35, 3208-3219.	11.4	24
111	Elemental and chemical characterization of dolphin enamel and dentine using X-ray and Raman microanalyzes (Cetacea: Delphinoidea and Inioidea). <i>Journal of Structural Biology</i> , 2014, 185, 58-68.	2.8	20
112	The effect of fiber aspect ratio and volume loading on the flexural properties of flowable dental composite. <i>Dental Materials</i> , 2014, 30, 1234-1244.	3.5	53
113	Wear behavior of human enamel against lithium disilicate glass ceramic and type III gold. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 1399-1405.	2.8	39
114	Adhesion determination of dental porcelain to zirconia using the Schwickerath test: Strength vs. fracture energy approach. <i>Acta Biomaterialia</i> , 2014, 10, 4861-4869.	8.3	24
115	Micromechanical characterization of prismless enamel in the tuatara, <i>Sphenodon punctatus</i> . <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 39, 210-217.	3.1	10
116	Fluoride release, recharge and flexural properties of polymethylmethacrylate containing fluoridated glass fillers. <i>Australian Dental Journal</i> , 2014, 59, 208-214.	1.5	12
117	Survival-rate analysis of surface treated dental zirconia (Y-TZP) ceramics. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 2255-2264.	3.6	27
118	Coordinate geometry method for capturing and evaluating crown preparation geometry. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 481-487.	2.8	12
119	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.	3.1	16
120	Influence of veneer and cyclic loading on failure behavior of lithium disilicate glass-ceramic molar crowns. <i>Dental Materials</i> , 2014, 30, 164-171.	3.5	68
121	Effect of core ceramic grinding on fracture behaviour of bilayered lithium disilicate glass-ceramic under two loading schemes. <i>Journal of Dentistry</i> , 2014, 42, 1436-1445.	4.1	12
122	A periodontal ligament driven remodeling algorithm for orthodontic tooth movement. <i>Journal of Biomechanics</i> , 2014, 47, 1689-1695.	2.1	80
123	Hertzian contact response and damage tolerance of dental ceramics. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 34, 124-133.	3.1	34
124	Fractographic analysis of anterior bilayered ceramic crowns that failed by veneer chipping. <i>Quintessence International</i> , 2014, 45, 369-76.	0.4	4
125	Three dimensional quantification of mandibular bone remodeling using standard tessellation language registration based superimposition. <i>Clinical Oral Implants Research</i> , 2013, 24, 1273-1279.	4.5	21
126	Fractured zirconia implants and related implant designs: scanning electron microscopy analysis. <i>Clinical Oral Implants Research</i> , 2013, 24, 592-597.	4.5	34

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127	Thermally induced fracture for core-veneered dental ceramic structures. <i>Acta Biomaterialia</i> , 2013, 9, 8394-8402.	8.3	60
128	X-ray microdiffraction, TEM characterization and texture analysis of human dentin and enamel. <i>Journal of Microscopy</i> , 2013, 251, 144-153.	1.8	44
129	Residual stresses in Y-TZP crowns due to changes in the thermal contraction coefficient of veneers. <i>Dental Materials</i> , 2013, 29, 594-601.	3.5	40
130	Mechanical properties of polymer-infiltrated-ceramic-network materials. <i>Dental Materials</i> , 2013, 29, 419-426.	3.5	414
131	Fracture resistance of titanium and zirconia abutments: An in vitro study. <i>Journal of Prosthetic Dentistry</i> , 2013, 109, 304-312.	2.8	91
132	In-vitro strength degradation of dental ceramics and novel PICN material by sharp indentation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 26, 34-42.	3.1	119
133	Clothing increases the risk of indirect ballistic fractures. <i>Journal of Orthopaedic Surgery and Research</i> , 2013, 8, 42.	2.3	24
134	Multiscale design of surface morphological gradient for osseointegration. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 20, 387-397.	3.1	63
135	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.	3.5	17
136	Structural analysis of reactionary dentin formed in response to polymicrobial invasion. <i>Journal of Structural Biology</i> , 2013, 181, 207-222.	2.8	28
137	The all-ceramic, inlay supported fixed partial denture. Part 5. Extended finite element analysis validation. <i>Australian Dental Journal</i> , 2013, 58, 434-441.	1.5	15
138	Composite polymerization stress as a function of specimen configuration assessed by crack analysis and finite element analysis. <i>Dental Materials</i> , 2013, 29, 1026-1033.	3.5	18
139	Compressive rib fracture: Peri-mortem and post-mortem trauma patterns in a pig model. <i>Legal Medicine</i> , 2013, 15, 193-201.	1.3	16
140	Evaluating the efficiency of caries removal using an Er:YAG laser driven by fluorescence feedback control. <i>Archives of Oral Biology</i> , 2013, 58, 603-610.	1.8	20
141	Mechanical properties of dental tissues in dolphins (Cetacea: Delphinoidea and Inioidea). <i>Archives of Oral Biology</i> , 2013, 58, 773-779.	1.8	28
142	Finite Element Analysis of an Implant-Assisted Removable Partial Denture. <i>Journal of Prosthodontics</i> , 2013, 22, 550-555.	3.7	16
143	The all-ceramic, inlay supported fixed partial denture. Part 4. Fracture surface analyses of an experimental model, all-ceramic, inlay supported fixed partial denture. <i>Australian Dental Journal</i> , 2013, 58, 141-147.	1.5	4
144	Finite Element Analysis of a Novel Implant Distribution to Support Maxillary Overdentures. <i>International Journal of Oral and Maxillofacial Implants</i> , 2013, 28, e1-e10.	1.4	15

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145	FEA Evaluation of the Resistance Form of a Premolar Crown. <i>Journal of Prosthodontics</i> , 2013, 22, 304-312.	3.7	11
146	Tooth Eruption Results from Bone Remodelling Driven by Bite Forces Sensed by Soft Tissue Dental Follicles: A Finite Element Analysis. <i>PLoS ONE</i> , 2013, 8, e58803.	2.5	57
147	Titanium Versus Zirconia Implants Supporting Maxillary Overdentures: Three-Dimensional Finite Element Analysis. <i>International Journal of Oral and Maxillofacial Implants</i> , 2013, 28, e198-e208.	1.4	28
148	Strain Distribution in a Kennedy Class I Implant Assisted Removable Partial Denture under Various Loading Conditions. <i>International Journal of Dentistry</i> , 2013, 2013, 1-11.	1.5	18
149	Effect of surface treatments on the adhesion of self-adhesive resin cements to titanium. <i>Journal of Adhesive Dentistry</i> , 2013, 15, 65-71.	0.5	11
150	Hierarchical flexural strength of enamel: transition from brittle to damage-tolerant behaviour. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1265-1274.	3.4	55
151	Comparison of mechanical behaviors of enamel rod and interrod regions in enamel. <i>Journal of Materials Research</i> , 2012, 27, 448-456.	2.6	23
152	The effect of margin thickness, degree of convergence and bonding interlayer on the marginal failure of glass-simulated all-ceramic crowns. <i>Acta Biomaterialia</i> , 2012, 8, 4426-4437.	8.3	16
153	Development of a model mouth containing an artificial tongue to measure the release of volatile compounds. <i>Innovative Food Science and Emerging Technologies</i> , 2012, 15, 96-103.	5.6	20
154	The dentin organic matrix "limitations of restorative dentistry hidden on the nanometer scale. <i>Acta Biomaterialia</i> , 2012, 8, 2419-2433.	8.3	163
155	Finite element analysis suggests functional bone strain accounts for continuous post-eruptive emergence of teeth. <i>Archives of Oral Biology</i> , 2012, 57, 1070-1078.	1.8	15
156	A comparative mechanical and bone remodelling study of all-ceramic posterior inlay and onlay fixed partial dentures. <i>Journal of Dentistry</i> , 2012, 40, 48-56.	4.1	47
157	Regulation of reactionary dentin formation by odontoblasts in response to polymicrobial invasion of dentin matrix. <i>Bone</i> , 2012, 50, 265-275.	2.9	62
158	Mechanical heterogeneity of dentin at different length scales as determined by AFM phase contrast. <i>Micron</i> , 2012, 43, 1364-1371.	2.2	21
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