

Albert Mehl

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

2,324
citations

26
h-index

48
g-index

61
ext. papers

2,853
ext. citations

3.5
avg, IF

5.46
L-index

#	Paper	IF	Citations
49	Accuracy of complete-arch dental impressions: a new method of measuring trueness and precision. <i>Journal of Prosthetic Dentistry</i> , 2013 , 109, 121-8	4	328
48	In vivo precision of conventional and digital methods of obtaining complete-arch dental impressions. <i>Journal of Prosthetic Dentistry</i> , 2016 , 115, 313-20	4	209
47	Wear characteristics of current aesthetic dental restorative CAD/CAM materials: two-body wear, gloss retention, roughness and Martens hardness. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 20, 113-25	4.1	169
46	The effect of zirconia sintering temperature on flexural strength, grain size, and contrast ratio. <i>Clinical Oral Investigations</i> , 2013 , 17, 269-74	4.2	153
45	In vivo precision of conventional and digital methods for obtaining quadrant dental impressions. <i>Clinical Oral Investigations</i> , 2016 , 20, 1495-504	4.2	109
44	The improvement of adhesive properties of PEEK through different pre-treatments. <i>Applied Surface Science</i> , 2012 , 258, 7213-7218	6.7	94
43	Root substance removal with Er:YAG laser radiation at different parameters using a new delivery system. <i>Journal of Periodontology</i> , 2000 , 71, 147-55	4.6	84
42	Antimicrobial effects of 2.94 microm Er:YAG laser radiation on root surfaces: an in vitro study. <i>Journal of Clinical Periodontology</i> , 2002 , 29, 73-8	7.7	83
41	CAD-CAM milled versus rapidly prototyped (3D-printed) complete dentures: An in vitro evaluation of trueness. <i>Journal of Prosthetic Dentistry</i> , 2019 , 121, 637-643	4	76
40	A 3-dimensional accuracy analysis of chairside CAD/CAM milling processes. <i>Journal of Prosthetic Dentistry</i> , 2014 , 112, 1425-31	4	75
39	3D volume-ablation rate and thermal side effects with the Er:YAG and Nd:YAG laser. <i>Dental Materials</i> , 1997 , 13, 246-51	5.7	74
38	Accuracy of complete- and partial-arch impressions of actual intraoral scanning systems in vitro. <i>International Journal of Computerized Dentistry</i> , 2019 , 22, 11-19	4.5	57
37	The effect of working tip angulation on root substance removal using Er:YAG laser radiation: an in vitro study. <i>Journal of Clinical Periodontology</i> , 2001 , 28, 220-6	7.7	52
36	CAD/CAM milled removable complete dentures: an in vitro evaluation of trueness. <i>Clinical Oral Investigations</i> , 2017 , 21, 2007-2019	4.2	51
35	Subgingival calculus detection with fluorescence induced by 655 nm InGaAsP diode laser radiation. <i>Journal of Periodontology</i> , 2002 , 73, 597-601	4.6	50
34	Antibacterial effects of pulsed Nd:YAG laser radiation at different energy settings in root canals. <i>Journal of Endodontics</i> , 2002 , 28, 24-9	4.7	48
33	Trueness of four different milling procedures used in dental CAD/CAM systems. <i>Clinical Oral Investigations</i> , 2017 , 21, 551-558	4.2	43

32	Influence of material surface on the scanning error of a powder-free 3D measuring system. <i>Clinical Oral Investigations</i> , 2015 , 19, 2035-43	4.2	39
31	Removal of bacterial endotoxin from root surface with Er:YAG laser. <i>American Journal of Dentistry</i> , 2003 , 16, 3-5	1.3	34
30	Root surface roughness following Er:YAG laser irradiation at different radiation energies and working tip angulations. <i>Journal of Clinical Periodontology</i> , 2002 , 29, 598-603	7.7	33
29	Biogeneric tooth: a new mathematical representation for tooth morphology in lower first molars. <i>European Journal of Oral Sciences</i> , 2005 , 113, 333-40	2.3	31
28	Virtual smile design systems: a current review. <i>International Journal of Computerized Dentistry</i> , 2015 , 18, 303-17	4.5	31
27	A validation study of reconstructed rapid prototyping models produced by two technologies. <i>Angle Orthodontist</i> , 2017 , 87, 782-787	2.6	30
26	Precision of guided scanning procedures for full-arch digital impressions in vivo. <i>Journal of Orofacial Orthopedics</i> , 2017 , 78, 466-471	2.9	30
25	Efficiency of a mathematical model in generating CAD/CAM-partial crowns with natural tooth morphology. <i>Clinical Oral Investigations</i> , 2011 , 15, 283-9	4.2	29
24	Clinical Evaluation of Indirect Particle-Filled Composite Resin CAD/CAM Partial Crowns after 24 Months. <i>Journal of Prosthodontics</i> , 2018 , 27, 694-699	3.9	26
23	Influence of material thickness on fractural strength of CAD/CAM fabricated ceramic crowns. <i>Dental Materials Journal</i> , 2017 , 36, 778-783	2.5	26
22	Effects of 2.94 microm Er:YAG laser radiation on root surfaces treated in situ: a histological study. <i>Journal of Periodontology</i> , 2003 , 74, 360-5	4.6	26
21	Influence of parameters on root surface roughness following treatment with a magnetostrictive ultrasonic scaler: an in vitro study. <i>Journal of Periodontology</i> , 2004 , 75, 1221-6	4.6	25
20	Chairside systems: a current review. <i>International Journal of Computerized Dentistry</i> , 2017 , 20, 123-149	4.5	22
19	The effectiveness of InGaAsP diode laser radiation to detect subgingival calculus as compared to an explorer. <i>Journal of Periodontology</i> , 2004 , 75, 744-9	4.6	21
18	Determination of changes on tooth-colored cervical restorations in vivo using a three-dimensional laser scanning device. <i>European Journal of Oral Sciences</i> , 2000 , 108, 233-8	2.3	21
17	Safety and efficiency of novel sonic scaler tips in vitro. <i>Journal of Clinical Periodontology</i> , 2003 , 30, 551-57.7		19
16	Effect of rubber dam on mercury exposure during amalgam removal. <i>European Journal of Oral Sciences</i> , 1999 , 107, 202-7	2.3	18
15	Accuracy in dental medicine, a new way to measure trueness and precision. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	17

14	Three-Dimensional Digital Evaluation of the Fit of Endocrowns Fabricated from Different CAD/CAM Materials. <i>Journal of Prosthodontics</i> , 2019 , 28, e504-e509	3.9	17
13	Fracture load of CAD/CAM-fabricated and 3D-printed composite crowns as a function of material thickness. <i>Clinical Oral Investigations</i> , 2019 , 23, 2777-2784	4.2	15
12	Polishing and coating of dental ceramic materials with 308 nm XeCl excimer laser radiation. <i>Dental Materials</i> , 1998 , 14, 186-93	5.7	12
11	In vivo tooth-color measurement with a new 3D intraoral scanning system in comparison to conventional digital and visual color determination methods. <i>International Journal of Computerized Dentistry</i> , 2017 , 20, 343-361	4.5	10
10	Marginal adaptation, fracture load and macroscopic failure mode of adhesively luted PMMA-based CAD/CAM inlays. <i>Dental Materials</i> , 2016 , 32, e22-9	5.7	8
9	A new concept for the integration of dynamic occlusion in the digital construction process. <i>International Journal of Computerized Dentistry</i> , 2012 , 15, 109-23	4.5	7
8	Accuracy of digital complete-arch, multi-implant scans made in the edentulous jaw with gingival movement simulation: An in vitro study. <i>Journal of Prosthetic Dentistry</i> , 2021 ,	4	5
7	Fracture load of three-unit full-contour fixed dental prostheses fabricated with subtractive and additive CAD/CAM technology. <i>Clinical Oral Investigations</i> , 2020 , 24, 1035-1042	4.2	4
6	Teaching dental undergraduate students restorative CAD/CAM technology: evaluation of a new concept. <i>International Journal of Computerized Dentistry</i> , 2019 , 22, 263-271	4.5	4
5	A three-dimensional morphometric study on the position of temporomandibular joints. <i>International Journal of Computerized Dentistry</i> , 2015 , 18, 319-31	4.5	3
4	Measurement of normal and pathological mandibular and temporomandibular joint kinematics: A systematic review. <i>Journal of Biomechanics</i> , 2020 , 111, 109994	2.9	2
3	Fracture Load of CAD/CAM Feldspathic Crowns Influenced by Abutment Material. <i>Materials</i> , 2020 , 13,	3.5	1
2	Low-Profile Electromagnetic Field Sensors in the Measurement and Modelling of Three-Dimensional Jaw Kinematics and Occlusal Loading. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 1561-1571	4.7	0
1	Is it possible to detect a true rotation axis of the temporomandibular joint with common pantographic methods? A fundamental kinematic analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 445-455	2.1	