Cornelis Johannes Kleverlaan

List of Publications by Year
in descending order

73 papers	2,594 citations	218677 26 h-index	197818 49 g-index
73 all docs	73 docs citations	73 times ranked	2266 citing authors

#	Article	IF	Citations
1	Polymerization shrinkage and contraction stress of dental resin composites. Dental Materials, 2005, 21, 1150-1157.	3.5	413
2	The fracture resistance of a CAD/CAM Resin Nano Ceramic (RNC) and a CAD ceramic at different thicknesses. Dental Materials, 2014, 30, 954-962.	3.5	166
3	Mechanical reliability, fatigue strength and survival analysis of new polycrystalline translucent zirconia ceramics for monolithic restorations. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 85, 57-65.	3.1	153
4	Mechanical properties of glass ionomer cements affected by curing methods. Dental Materials, 2004, 20, 45-50.	3.5	140
5	Mechanical performance of implant-supported posterior crowns. Journal of Prosthetic Dentistry, 2015, 114, 59-66.	2.8	104
6	Wear resistance and abrasiveness of CAD-CAM monolithic materials. Journal of Prosthetic Dentistry, 2018, 120, 318.e1-318.e8.	2.8	91
7	The effect of grinding on the mechanical behavior of Y-TZP ceramics: A systematic review and meta-analyses. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 63, 417-442.	3.1	72
8	Cytokines TNF-Î±, IL-6, IL-17F, and IL-4 Differentially Affect Osteogenic Differentiation of Human Adipose Stem Cells. Stem Cells International, 2016, 2016, 1-9.	2.5	64
9	Mechanical behavior of a Y-TZP ceramic for monolithic restorations: effect of grinding and low-temperature aging. Materials Science and Engineering C, 2016, 63, 70-77.	7.3	63
10	Impact of machining on the flexural fatigue strength of glass and polycrystalline CAD/CAM ceramics. Dental Materials, 2017, 33, 1286-1297.	3.5	61
11	The effect of internal roughness and bonding on the fracture resistance and structural reliability of lithium disilicate ceramic. Dental Materials, 2017, 33, 1416-1425.	3.5	60
12	Loading frequencies up to 20 Hz as an alternative to accelerate fatigue strength tests in a Y-TZP ceramic. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 61, 79-86.	3.1	57
13	Development of a Full-Thickness Human Gingiva Equivalent Constructed from Immortalized Keratinocytes and Fibroblasts. Tissue Engineering - Part C: Methods, 2016, 22, 781-791.	2.1	55
14	The influence of environmental conditions on the material properties of setting glass-ionomer cements. Dental Materials, 2006, 22, 852-856.	3.5	53
15	Fatigue limit of polycrystalline zirconium oxide ceramics: Effect of grinding and low-temperature aging. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 61, 45-54.	3.1	53
16	Fatigue performance of adhesively cemented glass-, hybrid- and resin-ceramic materials for CAD/CAM monolithic restorations. Dental Materials, 2019, 35, 534-542.	3.5	48
17	Comparison of different low-temperature aging protocols: its effects on the mechanical behavior of Y-TZP ceramics. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 60, 324-330.	3.1	45
18	In vitro cytotoxicity of metallic ions released from dental alloys. Odontology / the Society of the Nippon Dental University, 2016, 104, 136-142.	1.9	45

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19	Effect of different materials and undercut on the removal force and stress distribution in circumferential clasps during direct retainer action in removable partial dentures. Dental Materials, 2020, 36, 179-186.	3.5	43
20	Curing efficiency and heat generation of various resin composites cured with high-intensity halogen lights. European Journal of Oral Sciences, 2004, 112, 84-88.	1.5	42
21	Early and long-term wear of â€˜Fast-setâ€™ conventional glassâ€“ionomer cements. Dental Materials, 2005, 21, 716-720.	3.5	41
22	The effect of hydrofluoric acid concentration on the fatigue failure load of adhesively cemented feldspathic ceramic discs. Dental Materials, 2018, 34, 667-675.	3.5	36
23	Hydrofluoric acid concentrations: Effect on the cyclic load-to-failure of machined lithium disilicate restorations. Dental Materials, 2018, 34, e255-e263.	3.5	36
24	Elastic Properties of Lithium Disilicate Versus Feldspathic Inlays: Effect on the Bonding by 3D Finite Element Analysis. Journal of Prosthodontics, 2018, 27, 741-747.	3.7	34
25	Contact- and contact-free wear between various resin composites. Dental Materials, 2015, 31, 134-140.	3.5	33
26	Mouthguard use and TMJ injury prevention with different occlusions: A threeâ€dimensional finite element analysis. Dental Traumatology, 2020, 36, 662-669.	2.0	31
27	Three-Dimensional Finite Element Analysis of Anterior Two-Unit Cantilever Resin-Bonded Fixed Dental Prostheses. Scientific World Journal, The, 2015, 2015, 1-10.	2.1	28
28	Fatigue failure load of feldspathic ceramic crowns after hydrofluoric acid etching at different concentrations. Journal of Prosthetic Dentistry, 2018, 119, 278-285.	2.8	28
29	Three-body wear effect on different CAD/CAM ceramics staining durability. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103579.	3.1	27
30	One-step ceramic primer as surface conditioner: Effect on the load-bearing capacity under fatigue of bonded lithium disilicate ceramic simplified restorations. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103686.	3.1	27
31	Fullâ€Crown Versus Endocrown Approach: A 3Dâ€Analysis of Both Restorations and the Effect of Ferrule and Restoration Material. Journal of Prosthodontics, 2021, 30, 335-344.	3.7	26
32	ILâ€6 counteracts the inhibitory effect of ILâ€4 on osteogenic differentiation of human adipose stem cells. Journal of Cellular Physiology, 2019, 234, 20520-20532.	4.1	25
33	How does hydrofluoric acid etching affect the cyclic load-to-failure of lithium disilicate restorations?. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 87, 306-311.	3.1	24
34	Fatigue behavior of zirconia under different loading conditions. Dental Materials, 2016, 32, 915-920.	3.5	23
35	Enhanced Osteogenic and Vasculogenic Differentiation Potential of Human Adipose Stem Cells on Biphasic Calcium Phosphate Scaffolds in Fibrin Gels. Stem Cells International, 2016, 2016, 1-12.	2.5	20
36	Survival Probability, Weibull Characteristics, Stress Distribution, and Fractographic Analysis of Polymer-Infiltrated Ceramic Network Restorations Cemented on a Chairside Titanium Base: An In Vitro and In Silico Study. Materials, 2020, 13, 1879.	2.9	20

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37	Fatigue resistance of simplified CADâ€“CAM restorations: Foundation material and ceramic thickness effects on the fatigue behavior of partially- and fully-stabilized zirconia. Dental Materials, 2021, 37, 568-577.	3.5	19
38	Wear of bulk-fill resin composites. Dental Materials, 2022, 38, 549-553.	3.5	19
39	Effect of zirconia surface treatment, resin cement and aging on the load-bearing capacity under fatigue of thin simplified full-contour Y-TZP restorations. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 97, 21-29.	3.1	18
40	Occlusal Wear of Provisional Implant-Supported Restorations. Clinical Implant Dentistry and Related Research, 2015, 17, 179-185.	3.7	17
41	Wear of direct resin composites and teeth: considerations for oral rehabilitation. European Journal of Oral Sciences, 2019, 127, 156-161.	1.5	16
42	Does the prosthesis weight matter? 3D finite element analysis of a fixed implant-supported prosthesis at different weights and implant numbers. Journal of Advanced Prosthodontics, 2020, 12, 67.	2.6	16
43	Influence of the foundation substrate on the fatigue behavior of bonded glass, zirconia polycrystals, and polymer infiltrated ceramic simplified CAD-CAM restorations. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 117, 104391.	3.1	15
44	Influence of shape and finishing on the corrosion of palladium-based dental alloys. Journal of Advanced Prosthodontics, 2015, 7, 56.	2.6	14
45	Cells Derived from Human Long Bone Appear More Differentiated and More Actively Stimulate Osteoclastogenesis Compared to Alveolar Bone-Derived Cells. International Journal of Molecular Sciences, 2020, 21, 5072.	4.1	13
46	Continuing the quest for autoimmunity due to oral metal exposure. Autoimmunity, 2015, 48, 494-501.	2.6	12
47	Effect of zirconia polycrystal and stainless steel on the wear of resin composites, dentin and enamel. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 91, 287-293.	3.1	12
48	Durability of staining and glazing on a hybrid ceramics after the three-body wear. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 109, 103856.	3.1	11
49	Survival probability of zirconia-reinforced lithium silicate ceramic: Effect of surface condition and fatigue test load profile. Dental Materials, 2020, 36, 808-815.	3.5	11
50	Qualitative and quantitative differences in the subgingival microbiome of the restored and unrestored teeth. Journal of Periodontal Research, 2019, 54, 405-412.	2.7	10
51	Toothbrushing Wear Resistance of Stained CAD/CAM Ceramics. Coatings, 2021, 11, 224.	2.6	10
52	Effect of different surface treatments on optical, colorimetric, and surface characteristics of a lithium disilicate glassâ€“ceramic. Journal of Esthetic and Restorative Dentistry, 2021, 33, 1017-1028.	3.8	10
53	Effects of occlusal splint therapy on opposing tooth tissues, filling materials and restorations. Journal of Oral Rehabilitation, 2021, 48, 1129-1134.	3.0	9
54	Mechanical behavior of a bi-layer glass ionomer. Dental Materials, 2013, 29, 1020-1025.	3.5	8

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55	Effect of a retention groove on the shear bond strength of dentin-bonded restorations. Journal of Prosthetic Dentistry, 2016, 116, 382-388.	2.8	8
56	Immunostimulatory capacity of dental casting alloys on endotoxin responsiveness. Journal of Prosthetic Dentistry, 2017, 117, 677-684.	2.8	8
57	Nonâ€“heat inactivated autologous serum increases accuracy of in vitro CFSE lymphocyte proliferation test (LPT) for nickel. Clinical and Experimental Allergy, 2020, 50, 722-732.	2.9	8
58	Polymethyl methacrylate does not adversely affect the osteogenic potential of human adipose stem cells or primary osteoblasts. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 1536-1545.	3.4	6
59	Clinical wear of approximal glass ionomer restorations protected with a nanofilled self-adhesive light-cured protective coating. Journal of Applied Oral Science, 2018, 26, e20180094.	1.8	5
60	Effect of surface treatment and glaze application on shade characterized resin-modified ceramic after toothbrushing. Journal of Prosthetic Dentistry, 2021, 125, 691.e1-691.e7.	2.8	5
61	Bonding longevity of flowable GIC layer in artificially carious dentin. International Journal of Adhesion and Adhesives, 2014, 51, 62-66.	2.9	4
62	Youngâ€™s modulus and Poisson ratio of composite materials: Influence of wet and dry storage. Dental Materials Journal, 2020, 39, 657-663.	1.8	4
63	Is the application of a silane-based coupling agent necessary to stabilize the fatigue performance of bonded simplified lithium disilicate restorations?. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 126, 104989.	3.1	4
64	Mechanoresponsiveness of human adipose stem cells on nanocomposite and microâ€hybrid composite. Journal of Biomedical Materials Research - Part A, 2017, 105, 2986-2994.	4.0	3
65	Fatigue resistance of composite resins and glass-ceramics on dentin and enamel. Journal of Prosthetic Dentistry, 2020, , .	2.8	3
66	The influence of roughness on the resistance to impact of different CAD/CAM dental ceramics. Brazilian Dental Journal, 2021, 32, 54-65.	1.1	3
67	Burst, Short, and Sustained Vitamin D3 Applications Differentially Affect Osteogenic Differentiation of Human Adipose Stem Cells. International Journal of Molecular Sciences, 2020, 21, 3202.	4.1	2
68	Effect of polyvinyl siloxane impression material on the polymerization of composite resin. Journal of Prosthetic Dentistry, 2017, 117, 552-558.	2.8	1
69	Effect of microwave crystallization on the wear resistance of reinforced glass-ceramics. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 111, 104009.	3.1	1
70	Effect of the composition and manufacturing process on the resin microtensile bond strength to ceramics. International Journal of Adhesion and Adhesives, 2022, 116, 103138.	2.9	1
71	Novel hybrid-glass-based material for infiltration of early caries lesions. Dental Materials, 2022, , .	3.5	1
72	Influence of testing environment on static fatigue behavior of a glass and a polycrystalline ceramic. Brazilian Dental Journal, 2021, 32, 56-64.	1.1	0

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73	Effect of light-curing time on microhardness of a restorative bulk-fill resin composite to lute CAD-CAM resin composite endocrowns. American Journal of Dentistry, 2020, 33, 331-336.	0.1	0