Nikolaos Silikas

List of Publications by Year
in descending order

142 papers	6,260 citations	50276 46 h-index	79698 73 g-index
143 all docs	143 docs citations	143 times ranked	4445 citing authors

#	Article	IF	Citations
1	Light intensity effects on resin-composite degree of conversion and shrinkage strain. Dental Materials, 2000, 16, 292-296.	3.5	393
2	Degree of conversion of bulk-fill compared to conventional resin-composites at two time intervals. Dental Materials, 2013, 29, e213-e217.	3.5	204
3	Post-cure depth of cure of bulk fill dental resin-composites. Dental Materials, 2014, 30, 149-154.	3.5	199
4	Academy of Dental Materials guidanceâ€”Resin composites: Part Iâ€”Mechanical properties. Dental Materials, 2017, 33, 880-894.	3.5	198
5	Correlation of filler content and elastic properties of resin-composites. Dental Materials, 2008, 24, 932-939.	3.5	163
6	A mathematical model for simulating the bone remodeling process under mechanical stimulus. Dental Materials, 2007, 23, 1073-1078.	3.5	162
7	Evaluation of Root Canal Obturation: A Three-dimensional In Vitro Study. Journal of Endodontics, 2009, 35, 541-544.	3.1	152
8	Polymerization shrinkage kinetics and shrinkage-stress in dental resin-composites. Dental Materials, 2016, 32, 998-1006.	3.5	149
9	Three-dimensional Evaluation of Effectiveness of Hand and Rotary Instrumentation for Retreatment of Canals Filled with Different Materials. Journal of Endodontics, 2008, 34, 1370-1373.	3.1	128
10	Shrinkage Stresses Generated during Resin-Composite Applications: A Review. Journal of Dental Biomechanics, 2010, 1, .	1.2	124
11	Long-term sorption and solubility of bulk-fill and conventional resin-composites in water and artificial saliva. Journal of Dentistry, 2015, 43, 1511-1518.	4.1	117
12	Hygroscopic dimensional changes of self-adhering and new resin-matrix composites during water sorption/desorption cycles. Dental Materials, 2011, 27, 259-266.	3.5	116
13	Academy of Dental Materials guidanceâ€”Resin composites: Part IIâ€”Technique sensitivity (handling,) Tj ETQq1 1 0.784314 rgBT /Ov	3.5	114
14	Nanomechanical properties of dental resin-composites. Dental Materials, 2012, 28, 1292-1300.	3.5	110
15	Shrinkage behaviour of flowable resin-composites related to conversion and filler-fraction. Journal of Dentistry, 2007, 35, 651-655.	4.1	107
16	Diffusion and concurrent solubility of self-adhering and new resinâ€“matrix composites during water sorption/desorption cycles. Dental Materials, 2011, 27, 197-205.	3.5	100
17	Ex vivo surface and mechanical properties of coated orthodontic archwires. European Journal of Orthodontics, 2008, 30, 661-667.	2.4	98
18	Creep deformation of restorative resin-composites intended for bulk-fill placement. Dental Materials, 2012, 28, 928-935.	3.5	98

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19	Post-irradiation hardness development, chemical softening, and thermal stability of bulk-fill and conventional resin-composites. Journal of Dentistry, 2015, 43, 209-218.	4.1	96
20	Polymerization kinetics and impact of post polymerization on the Degree of Conversion of bulk-fill resin-composite at clinically relevant depth. Dental Materials, 2015, 31, 1207-1213.	3.5	95
21	Effect of New Obturating Materials on Vertical Root Fracture Resistance of Endodontically Treated Teeth. Journal of Endodontics, 2007, 33, 732-736.	3.1	89
22	Effectiveness of self-adhesive luting cements in bonding to chlorhexidine-treated dentin. Dental Materials, 2012, 28, 495-501.	3.5	86
23	Colour-stability and gloss-retention of silorane and dimethacrylate composites with accelerated aging. Journal of Dentistry, 2008, 36, 945-952.	4.1	79
24	3D-marginal adaptation versus setting shrinkage in light-cured microhybrid resin composites. Dental Materials, 2007, 23, 272-278.	3.5	72
25	Mechanical properties of coated superelastic archwires in conventional and self-ligating orthodontic brackets. American Journal of Orthodontics and Dentofacial Orthopedics, 2010, 137, 213-217.	1.7	72
26	Analysis of long-term monomer elution from bulk-fill and conventional resin-composites using high performance liquid chromatography. Dental Materials, 2015, 31, 1587-1598.	3.5	70
27	Influence of P/L ratio and peroxide/amine concentrations on shrinkage-strain kinetics during setting of PMMA/MMA biomaterial formulations. Biomaterials, 2005, 26, 197-204.	11.4	68
28	Effect of etching time and resin bond on the flexural strength of IPS e.max Press glass ceramic. Dental Materials, 2014, 30, e330-e336.	3.5	65
29	Investigating the Mechanical Properties of ZrO2-Impregnated PMMA Nanocomposite for Denture-Based Applications. Materials, 2019, 12, 1344.	2.9	64
30	Effect of the Composition of CAD/CAM Composite Blocks on Mechanical Properties. BioMed Research International, 2018, 2018, 1-8.	1.9	63
31	Hardness and fracture toughness of resin-composite materials with and without fibers. Dental Materials, 2019, 35, 1194-1203.	3.5	59
32	Tensile properties of orthodontic elastomeric chains. European Journal of Orthodontics, 2004, 26, 157-162.	2.4	58
33	Extended Setting Shrinkage Behavior of Endodontic Sealers. Journal of Endodontics, 2008, 34, 90-93.	3.1	58
34	Surface and bulk properties of dental resin- composites after solvent storage. Dental Materials, 2016, 32, 987-997.	3.5	58
35	Sequential software processing of micro-XCT dental-images for 3D-FE analysis. Dental Materials, 2009, 25, e47-e55.	3.5	57
36	Timeâ€dependent viscoâ€elastic creep and recovery of flowable composites. European Journal of Oral Sciences, 2007, 115, 517-521.	1.5	56

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37	Experimental and FE shear-bonding strength at core/veneer interfaces in bilayered ceramics. Dental Materials, 2011, 27, 590-597.	3.5	56
38	Rheology of urethane dimethacrylate and diluent formulations. Dental Materials, 1999, 15, 257-261.	3.5	55
39	In vitro degradation of polyurethane orthodontic elastomeric modules. Journal of Oral Rehabilitation, 2005, 32, 72-77.	3.0	54
40	In vitro pulp chamber temperature rise from irradiation and exotherm of flowable composites. International Journal of Paediatric Dentistry, 2009, 19, 48-54.	1.8	53
41	Rheological properties of resin composites according to variations in composition and temperature. Dental Materials, 2014, 30, 517-524.	3.5	52
42	In vitro characterization of two laboratory-processed resin composites. Dental Materials, 2003, 19, 393-398.	3.5	49
43	Effect of filler size and shape on local nanoindentation modulus of resin-composites. Journal of Materials Science: Materials in Medicine, 2008, 19, 3561-3566.	3.6	49
44	Initial versus final fracture of metal-free crowns, analyzed via acoustic emission. Dental Materials, 2008, 24, 1289-1295.	3.5	49
45	Titanium orthodontic brackets: structure, composition, hardness and ionic release. Dental Materials, 2004, 20, 693-700.	3.5	48
46	Degradation resistance of silorane, experimental ormocer and dimethacrylate resin-based dental composites. Journal of Oral Science, 2011, 53, 413-419.	1.7	48
47	Evaluation of UDMA's potential as a substitute for Bis-GMA in orthodontic adhesives. Dental Materials, 2013, 29, 898-905.	3.5	48
48	Surface characterization of modern resin composites: a multitechnique approach. American Journal of Dentistry, 2005, 18, 95-100.	0.1	46
49	Effect of nanofillers' size on surface properties after toothbrush abrasion. American Journal of Dentistry, 2009, 22, 60-4.	0.1	46
50	The influence of nanoscale inorganic content over optical and surface properties of model composites. Journal of Dentistry, 2013, 41, e45-e53.	4.1	44
51	Qualitative and quantitative characterization of monomers of uncured bulk-fill and conventional resin-composites using liquid chromatography/mass spectrometry. Dental Materials, 2015, 31, 711-720.	3.5	44
52	Comparative assessment of the roughness, hardness, and wear resistance of aesthetic bracket materials. Dental Materials, 2005, 21, 890-894.	3.5	43
53	Effect of Extraoral Aging Conditions on Mechanical Properties of Maxillofacial Silicone Elastomer. Journal of Prosthodontics, 2011, 20, 439-446.	3.7	43
54	Edge strength of resin-composite margins. Dental Materials, 2008, 24, 129-133.	3.5	41

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55	Methacrylate- and silorane-based composite restorations: Hardness, depth of cure and interfacial gap formation as a function of the energy dose. Dental Materials, 2011, 27, 1162-1169.	3.5	41
56	Surface characterization of precious alloys treated with thione metal primers. Dental Materials, 2007, 23, 665-673.	3.5	40
57	Flexural Strength and Hardness of Filler-Reinforced PMMA Targeted for Denture Base Application. Materials, 2021, 14, 2659.	2.9	40
58	Hygroscopic expansion kinetics of dental resin-composites. Dental Materials, 2014, 30, 143-148.	3.5	36
59	Physical and chemical properties of model composites containing quaternary ammonium methacrylates. Dental Materials, 2018, 34, 143-151.	3.5	35
60	Conversion kinetics of rapid photo-polymerized resin composites. Dental Materials, 2020, 36, 1266-1274.	3.5	35
61	Filler size of resin-composites, percentage of voids and fracture toughness: is there a correlation?. Dental Materials Journal, 2012, 31, 523-527.	1.8	34
62	A review and current state of autonomic self-healing microcapsules-based dental resin composites. Dental Materials, 2020, 36, 329-342.	3.5	33
63	Edge-strength of flowable resin-composites. Journal of Dentistry, 2008, 36, 63-68.	4.1	31
64	Curing efficiency of high-intensity light-emitting diode (LED) devices. Journal of Oral Science, 2010, 52, 187-195.	1.7	31
65	Nanoindentation creep versus bulk compressive creep of dental resin-composites. Dental Materials, 2012, 28, 1171-1182.	3.5	30
66	Fungicidal amounts of antifungals are released from impregnated denture lining material for up to 28 days. Journal of Dentistry, 2012, 40, 506-512.	4.1	29
67	Finite element analysis of bonded model Class I â€˜restorationsâ€™ after shrinkage. Dental Materials, 2012, 28, 123-132.	3.5	29
68	Pre-heating effects on extrusion force, stickiness and packability of resin-based composite. Dental Materials, 2019, 35, 1594-1602.	3.5	29
69	The relationship between cyclic hygroscopic dimensional changes and water sorption/desorption of self-adhering and new resin-matrix composites. Dental Materials, 2013, 29, e218-e226.	3.5	27
70	Persistent inhibition of Candida albicans biofilm and hyphae growth on titanium by graphene nanocoating. Dental Materials, 2021, 37, 370-377.	3.5	27
71	The effect of chewing simulation on surface roughness of resin composite when opposed by zirconia ceramic and lithium disilicate ceramic. Dental Materials, 2018, 34, e15-e24.	3.5	26
72	Polymerization shrinkage and shrinkage stress development in ultra-rapid photo-polymerized bulk fill resin composites. Dental Materials, 2021, 37, 559-567.	3.5	26

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73	Edge strength of indirect restorative materials. Journal of Dentistry, 2009, 37, 799-806.	4.1	25
74	Water sorption and solubility of core build-up materials. Dental Materials, 2014, 30, e324-e329.	3.5	25
75	Assessing Fracture Toughness and Impact Strength of PMMA Reinforced with Nano-Particles and Fibre as Advanced Denture Base Materials. Materials, 2021, 14, 4127.	2.9	25
76	AFM and SEM study of the effects of etching on IPS-Empress 2TM dental ceramic. Surface Science, 2001, 491, 388-394.	1.9	24
77	Surface integrity of solvent-challenged ormocer-matrix composite. Dental Materials, 2011, 27, 173-179.	3.5	24
78	Shrinkage, stress, and modulus of dimethacrylate, ormocer, and silorane composites. Journal of Conservative Dentistry, 2015, 18, 384.	0.9	24
79	Improved mechanical performance of self-adhesive resin cement filled with hybrid nanofibers-embedded with niobium pentoxide. Dental Materials, 2019, 35, e272-e285.	3.5	23
80	Silane reactivity and resin bond strength to lithium disilicate ceramic surfaces. Dental Materials, 2019, 35, 1082-1094.	3.5	23
81	Pre-heating time and exposure duration: Effects on post-irradiation properties of a thermo-viscous resin-composite. Dental Materials, 2020, 36, 787-793.	3.5	23
82	Micro-Raman spectroscopic analysis of TiO2 phases on the root surfaces of commercial dental implants. Dental Materials, 2014, 30, 861-867.	3.5	20
83	Resin-based composites show similar kinetic profiles for dimensional change and recovery with solvent storage. Dental Materials, 2015, 31, e201-e217.	3.5	20
84	Influence of curing modes on thermal stability, hardness development and network integrity of dual-cure resin cements. Dental Materials, 2021, 37, 1854-1864.	3.5	20
85	Evaluation of Equivalent Flexural Strength for Complete Removable Dentures Made of Zirconia-Impregnated PMMA Nanocomposites. Materials, 2020, 13, 2580.	2.9	19
86	Effect of Net Fiber Reinforcement Surface Treatment on Soft Denture Liner Retention and Longevity. Journal of Prosthodontics, 2010, 19, 258-262.	3.7	18
87	Self-Etch Silane Primer: Reactivity and Bonding with a Lithium Disilicate Ceramic. Materials, 2020, 13, 641.	2.9	18
88	A laboratory evaluation of the physical and mechanical properties of selected root canal sealers. International Endodontic Journal, 2010, 43, 882-888.	5.0	16
89	Degradation resistance of ormocer- and dimethacrylate-based matrices with different filler contents. Journal of Dentistry, 2012, 40, 86-90.	4.1	16
90	Viscoelastic stability of resin-composites under static and dynamic loading. Dental Materials, 2012, 28, e15-e18.	3.5	16

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91	The effect of desiccation on water sorption, solubility and hygroscopic volumetric expansion of dentine replacement materials. Dental Materials, 2018, 34, e205-e213.	3.5	16
92	Response of two gingival cell lines to CAD/CAM composite blocks. Dental Materials, 2020, 36, 1214-1225.	3.5	16
93	Influence of curing modes on conversion and shrinkage of dual-cure resin-cements. Dental Materials, 2022, 38, 194-203.	3.5	16
94	Development and testing of novel bisphenol A-free adhesives for lingual fixed retainer bonding. European Journal of Orthodontics, 2017, 39, 1-8.	2.4	15
95	Micro-CT and FE-SEM enamel analyses of calcium-based agent application after bleaching. Clinical Oral Investigations, 2018, 22, 961-970.	3.0	15
96	The Effects of Toothbrush Wear on the Surface Roughness and Gloss of Resin Composites with Various Types of Matrices. Dentistry Journal, 2021, 9, 8.	2.3	15
97	Graphene nanocoating provides superb long-lasting corrosion protection to titanium alloy. Dental Materials, 2021, 37, 1553-1560.	3.5	15
98	Influence of curing modes on monomer elution, sorption and solubility of dual-cure resin-cements. Dental Materials, 2022, 38, 978-988.	3.5	14
99	Multi-technique characterization of retrieved bone cement from revised total hip arthroplasties. Journal of Materials Science: Materials in Medicine, 2003, 14, 967-972.	3.6	13
100	High pressure liquid chromatography of dentin primers and bonding agents. Dental Materials, 2000, 16, 81-88.	3.5	12
101	Simultaneous Evaluation of Creep Deformation and Recovery of Bulk-Fill Dental Composites Immersed in Food-Simulating Liquids. Materials, 2018, 11, 1180.	2.9	12
102	Effect of universal adhesives on microtensile bond strength to hybrid ceramic. BMC Oral Health, 2019, 19, 178.	2.3	12
103	Viscoelastic stability of pre-cured resin-composite CAD/CAM structures. Dental Materials, 2019, 35, 1166-1172.	3.5	12
104	Osteogenic potential of graphene coated titanium is independent of transfer technique. Materialia, 2020, 9, 100604.	2.7	12
105	Fighting viruses with materials science: Prospects for antivirus surfaces, drug delivery systems and artificial intelligence. Dental Materials, 2021, 37, 496-507.	3.5	12
106	Effect of nanofillers in adhesive and aesthetic properties of dental resin-composites. International Journal of Nano and Biomaterials, 2007, 1, 116.	0.1	11
107	Effect of Filler Size and Temperature on Packing Stress and Viscosity of Resin-composites. International Journal of Molecular Sciences, 2011, 12, 5330-5338.	4.1	11
108	Development of viscoelastic stability of resin-composites incorporating novel matrices. Dental Materials, 2015, 31, 1561-1566.	3.5	11

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109	Chemical, mechanical and biological properties of contemporary composite surface sealers. Dental Materials, 2015, 31, 1474-1486.	3.5	10
110	Long-Term Sorption and Solubility of Zirconia-Impregnated PMMA Nanocomposite in Water and Artificial Saliva. Materials, 2020, 13, 3732.	2.9	10
111	The effect of different storage media on the monomer elution and hardness of CAD/CAM composite blocks. Dental Materials, 2021, 37, 1202-1213.	3.5	10
112	Multitechnique characterization of CPTi surfaces after electro discharge machining (EDM). Clinical Oral Investigations, 2014, 18, 67-75.	3.0	9
113	Influence of surface treatments and cyclic fatigue on subsurface defects and mechanical properties of zirconia frameworks. Dental Materials, 2021, 37, 905-913.	3.5	9
114	Quantitative nano-mechanical mapping AFM-based method for elastic modulus and surface roughness measurements of model polymer infiltrated ceramics. Dental Materials, 2022, 38, 935-945.	3.5	9
115	3D-FE analysis of soft linerâ€“acrylic interfaces under shear loading. Dental Materials, 2011, 27, 445-454.	3.5	8
116	Impregnation with antimicrobials challenge bonding properties and water sorption behaviour of an acrylic liner. Journal of Dentistry, 2012, 40, 693-699.	4.1	8
117	Properties of A Model Self-Healing Microcapsule-Based Dental Composite Reinforced with Silica Nanoparticles. Journal of Functional Biomaterials, 2022, 13, 19.	4.4	8
118	Effect of Different Solutions on the Colour Stability of Nanoparticles or Fibre Reinforced PMMA. Polymers, 2022, 14, 1521.	4.5	8
119	Impregnation with antimicrobials has an impact on degree of conversion and colour stability of acrylic liner. Dental Materials Journal, 2012, 31, 1008-1013.	1.8	7
120	Novel silane encapsulation system for tribochemical resin bonding to a Co-Cr alloy. Journal of Dentistry, 2016, 50, 60-68.	4.1	7
121	Interaction of a tripeptide with titania surfaces: RGD adsorption on rutile TiO2(110) and model dental implant surfaces. Materials Science and Engineering C, 2019, 105, 110030.	7.3	7
122	Effect of Cleansers on the Colour Stability of Zirconia Impregnated PMMA Bio-Nanocomposite. Nanomaterials, 2020, 10, 1757.	4.1	7
123	Effects of procedures of remineralization around orthodontics bracket bonded by self-etching primer on its shear bond strength. Journal of Orthodontic Science, 2012, 1, 63.	0.8	7
124	Initial polishing time affects gloss retention in resin composites. American Journal of Dentistry, 2012, 25, 303-6.	0.1	7
125	Longâ€term hydrolytic stability of CAD/CAM composite blocks. European Journal of Oral Sciences, 2022, 130, .	1.5	7
126	The Effect of Cyclic Loading on the Compressive Strength of Core Buildâ€Up Materials. Journal of Prosthodontics, 2015, 24, 549-552.	3.7	6

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127	Assessing Tensile Bond Strength Between Denture Teeth and Nano-Zirconia Impregnated PMMA Denture Base . International Journal of Nanomedicine, 2020, Volume 15, 9611-9625.	6.7	6
128	Material behavior of resin composites with and without fibers after extended water storage. Dental Materials Journal, 2021, 40, 557-565.	1.8	6
129	Chemical Characterisation of Silanised Zirconia Nanoparticles and Their Effects on the Properties of PMMA-Zirconia Nanocomposites. Materials, 2021, 14, 3212.	2.9	6
130	Effect of Air-Abraded Versus Laser-Fused Fluorapatite Glass-Ceramics on Shear Bond Strength of Repair Materials to Zirconia. Materials, 2021, 14, 1468.	2.9	5
131	Analysis of Residual Ridge Morphology in a Group of Edentulous Patients Seeking NHS Dental Implant Provisionâ€"A Retrospective Observational Lateral Cephalometric Study. Diagnostics, 2021, 11, 2348.	2.6	5
132	Effects of three food-simulating liquids on the roughness and hardness of CAD/CAM polymer composites. Dental Materials, 2022, 38, 874-885.	3.5	5
133	Inâ€depth hardness profiles of Stainless Steel and Niâ€Ti endodontic instrument crossâ€sections by nanoâ€indentation. International Endodontic Journal, 2008, 41, 747-754.	5.0	4
134	Metallurgical characterization of experimental Ag-based soldering alloys. Saudi Dental Journal, 2014, 26, 139-144.	1.6	3
135	Is the radiopacity of CAD/CAM aesthetic materials sufficient?. Dental Materials, 2022, 38, 1072-1081.	3.5	3
136	Multitechnique characterization of conventional and experimental Ag-based brazing alloys for orthodontic applications. Dental Materials, 2018, 34, e25-e35.	3.5	2
137	Evaluating Polishability of Zirconia Impregnated PMMA Nanocomposite for Denture Base Application. Symmetry, 2021, 13, 976.	2.2	2
138	The Effect of Number and Distribution of Mini Dental Implants on Overdenture Stability: An In Vitro Study. Materials, 2022, 15, 2988.	2.9	2
139	Does the Length of Mini Dental Implants Affect Their Resistance to Failure by Overloading?. Dentistry Journal, 2022, 10, 117.	2.3	2
140	Measurement of Fracture Strength of Zirconia Dental Implant Abutments with Internal and External Connections Using Acoustic Emission. Materials, 2019, 12, 2009.	2.9	1
141	Behaviour of PMMA Resin Composites Incorporated with Nanoparticles or Fibre following Prolonged Water Storage. Nanomaterials, 2021, 11, 3453.	4.1	1
142	Preliminary study of hydroxyapatite particles air abrasive blasting on Mg-4Zn-0.3Ca surface. AIP Conference Proceedings, 2019, , .	0.4	0