

Nikolaos Silikas

List of Publications by Year in descending order

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Version: 2024-02-01

142
papers

6,260
citations

50276

46
h-index

79698

73
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143
all docs

143
docs citations

143
times ranked

4445
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of curing modes on conversion and shrinkage of dual-cure resin-cements. <i>Dental Materials</i> , 2022, 38, 194-203.	3.5	16
2	Properties of A Model Self-Healing Microcapsule-Based Dental Composite Reinforced with Silica Nanoparticles. <i>Journal of Functional Biomaterials</i> , 2022, 13, 19.	4.4	8
3	Quantitative nano-mechanical mapping AFM-based method for elastic modulus and surface roughness measurements of model polymer infiltrated ceramics. <i>Dental Materials</i> , 2022, 38, 935-945.	3.5	9
4	Influence of curing modes on monomer elution, sorption and solubility of dual-cure resin-cements. <i>Dental Materials</i> , 2022, 38, 978-988.	3.5	14
5	Effect of Different Solutions on the Colour Stability of Nanoparticles or Fibre Reinforced PMMA. <i>Polymers</i> , 2022, 14, 1521.	4.5	8
6	Long-term hydrolytic stability of CAD/CAM composite blocks. <i>European Journal of Oral Sciences</i> , 2022, 130, .	1.5	7
7	Effects of three food-simulating liquids on the roughness and hardness of CAD/CAM polymer composites. <i>Dental Materials</i> , 2022, 38, 874-885.	3.5	5
8	The Effect of Number and Distribution of Mini Dental Implants on Overdenture Stability: An In Vitro Study. <i>Materials</i> , 2022, 15, 2988.	2.9	2
9	Is the radiopacity of CAD/CAM aesthetic materials sufficient?. <i>Dental Materials</i> , 2022, 38, 1072-1081.	3.5	3
10	Does the Length of Mini Dental Implants Affect Their Resistance to Failure by Overloading?. <i>Dentistry Journal</i> , 2022, 10, 117.	2.3	2
11	The Effects of Toothbrush Wear on the Surface Roughness and Gloss of Resin Composites with Various Types of Matrices. <i>Dentistry Journal</i> , 2021, 9, 8.	2.3	15
12	Persistent inhibition of <i>Candida albicans</i> biofilm and hyphae growth on titanium by graphene nanocoating. <i>Dental Materials</i> , 2021, 37, 370-377.	3.5	27
13	Fighting viruses with materials science: Prospects for antivirus surfaces, drug delivery systems and artificial intelligence. <i>Dental Materials</i> , 2021, 37, 496-507.	3.5	12
14	Effect of Air-Abraded Versus Laser-Fused Fluorapatite Glass-Ceramics on Shear Bond Strength of Repair Materials to Zirconia. <i>Materials</i> , 2021, 14, 1468.	2.9	5
15	Polymerization shrinkage and shrinkage stress development in ultra-rapid photo-polymerized bulk fill resin composites. <i>Dental Materials</i> , 2021, 37, 559-567.	3.5	26
16	Evaluating Polishability of Zirconia Impregnated PMMA Nanocomposite for Denture Base Application. <i>Symmetry</i> , 2021, 13, 976.	2.2	2
17	Material behavior of resin composites with and without fibers after extended water storage. <i>Dental Materials Journal</i> , 2021, 40, 557-565.	1.8	6
18	Influence of surface treatments and cyclic fatigue on subsurface defects and mechanical properties of zirconia frameworks. <i>Dental Materials</i> , 2021, 37, 905-913.	3.5	9

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19	Flexural Strength and Hardness of Filler-Reinforced PMMA Targeted for Denture Base Application. <i>Materials</i> , 2021, 14, 2659.	2.9	40
20	Chemical Characterisation of Silanised Zirconia Nanoparticles and Their Effects on the Properties of PMMA-Zirconia Nanocomposites. <i>Materials</i> , 2021, 14, 3212.	2.9	6
21	Assessing Fracture Toughness and Impact Strength of PMMA Reinforced with Nano-Particles and Fibre as Advanced Denture Base Materials. <i>Materials</i> , 2021, 14, 4127.	2.9	25
22	The effect of different storage media on the monomer elution and hardness of CAD/CAM composite blocks. <i>Dental Materials</i> , 2021, 37, 1202-1213.	3.5	10
23	Influence of curing modes on thermal stability, hardness development and network integrity of dual-cure resin cements. <i>Dental Materials</i> , 2021, 37, 1854-1864.	3.5	20
24	Graphene nanocoating provides superb long-lasting corrosion protection to titanium alloy. <i>Dental Materials</i> , 2021, 37, 1553-1560.	3.5	15
25	Behaviour of PMMA Resin Composites Incorporated with Nanoparticles or Fibre following Prolonged Water Storage. <i>Nanomaterials</i> , 2021, 11, 3453.	4.1	1
26	Analysis of Residual Ridge Morphology in a Group of Edentulous Patients Seeking NHS Dental Implant Provisionâ€”A Retrospective Observational Lateral Cephalometric Study. <i>Diagnostics</i> , 2021, 11, 2348.	2.6	5
27	A review and current state of autonomic self-healing microcapsules-based dental resin composites. <i>Dental Materials</i> , 2020, 36, 329-342.	3.5	33
28	Assessing Tensile Bond Strength Between Denture Teeth and Nano-Zirconia Impregnated PMMA Denture Base. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 9611-9625.	6.7	6
29	Conversion kinetics of rapid photo-polymerized resin composites. <i>Dental Materials</i> , 2020, 36, 1266-1274.	3.5	35
30	Long-Term Sorption and Solubility of Zirconia-Impregnated PMMA Nanocomposite in Water and Artificial Saliva. <i>Materials</i> , 2020, 13, 3732.	2.9	10
31	Effect of Cleansers on the Colour Stability of Zirconia Impregnated PMMA Bio-Nanocomposite. <i>Nanomaterials</i> , 2020, 10, 1757.	4.1	7
32	Pre-heating time and exposure duration: Effects on post-irradiation properties of a thermo-viscous resin-composite. <i>Dental Materials</i> , 2020, 36, 787-793.	3.5	23
33	Response of two gingival cell lines to CAD/CAM composite blocks. <i>Dental Materials</i> , 2020, 36, 1214-1225.	3.5	16
34	Evaluation of Equivalent Flexural Strength for Complete Removable Dentures Made of Zirconia-Impregnated PMMA Nanocomposites. <i>Materials</i> , 2020, 13, 2580.	2.9	19
35	Osteogenic potential of graphene coated titanium is independent of transfer technique. <i>Materialia</i> , 2020, 9, 100604.	2.7	12
36	Self-Etch Silane Primer: Reactivity and Bonding with a Lithium Disilicate Ceramic. <i>Materials</i> , 2020, 13, 641.	2.9	18

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37	Effect of universal adhesives on microtensile bond strength to hybrid ceramic. BMC Oral Health, 2019, 19, 178.	2.3	12
38	Interaction of a tripeptide with titania surfaces: RGD adsorption on rutile TiO ₂ (110) and model dental implant surfaces. Materials Science and Engineering C, 2019, 105, 110030.	7.3	7
39	Measurement of Fracture Strength of Zirconia Dental Implant Abutments with Internal and External Connections Using Acoustic Emission. Materials, 2019, 12, 2009.	2.9	1
40	Pre-heating effects on extrusion force, stickiness and packability of resin-based composite. Dental Materials, 2019, 35, 1594-1602.	3.5	29
41	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
42	Viscoelastic stability of pre-cured resin-composite CAD/CAM structures. Dental Materials, 2019, 35, 1166-1172.	3.5	12
43	Hardness and fracture toughness of resin-composite materials with and without fibers. Dental Materials, 2019, 35, 1194-1203.	3.5	59
44	Silane reactivity and resin bond strength to lithium disilicate ceramic surfaces. Dental Materials, 2019, 35, 1082-1094.	3.5	23
45	Investigating the Mechanical Properties of ZrO ₂ -Impregnated PMMA Nanocomposite for Denture-Based Applications. Materials, 2019, 12, 1344.	2.9	64
46	Preliminary study of hydroxyapatite particles air abrasive blasting on Mg-4Zn-0.3Ca surface. AIP Conference Proceedings, 2019, , .	0.4	0
47	Multitechnique characterization of conventional and experimental Ag-based brazing alloys for orthodontic applications. Dental Materials, 2018, 34, e25-e35.	3.5	2
48	Micro-CT and FE-SEM enamel analyses of calcium-based agent application after bleaching. Clinical Oral Investigations, 2018, 22, 961-970.	3.0	15
49	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
50	Physical and chemical properties of model composites containing quaternary ammonium methacrylates. Dental Materials, 2018, 34, 143-151.	3.5	35
51	Effect of the Composition of CAD/CAM Composite Blocks on Mechanical Properties. BioMed Research International, 2018, 2018, 1-8.	1.9	63
52	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
53	Simultaneous Evaluation of Creep Deformation and Recovery of Bulk-Fill Dental Composites Immersed in Food-Simulating Liquids. Materials, 2018, 11, 1180.	2.9	12
54	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

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55	Academy of Dental Materials guidanceâ€”Resin composites: Part Iâ€”Mechanical properties. Dental Materials, 2017, 33, 880-894.	3.5	198
56	Academy of Dental Materials guidanceâ€”Resin composites: Part IIâ€”Technique sensitivity (handling,) Tj ETQq0 0 0 ggBT /Overlock 10 T	3.5	114
57	Surface and bulk properties of dental resin- composites after solvent storage. Dental Materials, 2016, 32, 987-997.	3.5	58
58	Novel silane encapsulation system for tribochemical resin bonding to a Co-Cr alloy. Journal of Dentistry, 2016, 50, 60-68.	4.1	7
59	Polymerization shrinkage kinetics and shrinkage-stress in dental resin-composites. Dental Materials, 2016, 32, 998-1006.	3.5	149
60	The Effect of Cyclic Loading on the Compressive Strength of Core Buildâ€”Up Materials. Journal of Prosthodontics, 2015, 24, 549-552.	3.7	6
61	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
62	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
63	Chemical, mechanical and biological properties of contemporary composite surface sealers. Dental Materials, 2015, 31, 1474-1486.	3.5	10
64	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
65	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
66	Resin-based composites show similar kinetic profiles for dimensional change and recovery with solvent storage. Dental Materials, 2015, 31, e201-e217.	3.5	20
67	Development of viscoelastic stability of resin-composites incorporating novel matrices. Dental Materials, 2015, 31, 1561-1566.	3.5	11
68	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
69	Shrinkage, stress, and modulus of dimethacrylate, ormocer, and silorane composites. Journal of Conservative Dentistry, 2015, 18, 384.	0.9	24
70	Metallurgical characterization of experimental Ag-based soldering alloys. Saudi Dental Journal, 2014, 26, 139-144.	1.6	3
71	Multitechnique characterization of CPTi surfaces after electro discharge machining (EDM). Clinical Oral Investigations, 2014, 18, 67-75.	3.0	9
72	Post-cure depth of cure of bulk fill dental resin-composites. Dental Materials, 2014, 30, 149-154.	3.5	199

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73	Effect of etching time and resin bond on the flexural strength of IPS e.max Press glass ceramic. <i>Dental Materials</i> , 2014, 30, e330-e336.	3.5	65
74	Water sorption and solubility of core build-up materials. <i>Dental Materials</i> , 2014, 30, e324-e329.	3.5	25
75	Micro-Raman spectroscopic analysis of TiO ₂ phases on the root surfaces of commercial dental implants. <i>Dental Materials</i> , 2014, 30, 861-867.	3.5	20
76	Hygroscopic expansion kinetics of dental resin-composites. <i>Dental Materials</i> , 2014, 30, 143-148.	3.5	36
77	Rheological properties of resin composites according to variations in composition and temperature. <i>Dental Materials</i> , 2014, 30, 517-524.	3.5	52
78	Degree of conversion of bulk-fill compared to conventional resin-composites at two time intervals. <i>Dental Materials</i> , 2013, 29, e213-e217.	3.5	204
79	The influence of nanoscale inorganic content over optical and surface properties of model composites. <i>Journal of Dentistry</i> , 2013, 41, e45-e53.	4.1	44
80	The relationship between cyclic hygroscopic dimensional changes and water sorption/desorption of self-adhering and new resin-matrix composites. <i>Dental Materials</i> , 2013, 29, e218-e226.	3.5	27
81	Evaluation of UDMA's potential as a substitute for Bis-GMA in orthodontic adhesives. <i>Dental Materials</i> , 2013, 29, 898-905.	3.5	48
82	Filler size of resin-composites, percentage of voids and fracture toughness: is there a correlation?. <i>Dental Materials Journal</i> , 2012, 31, 523-527.	1.8	34
83	Degradation resistance of ormocer- and dimethacrylate-based matrices with different filler contents. <i>Journal of Dentistry</i> , 2012, 40, 86-90.	4.1	16
84	Fungicidal amounts of antifungals are released from impregnated denture lining material for up to 28 days. <i>Journal of Dentistry</i> , 2012, 40, 506-512.	4.1	29
85	Impregnation with antimicrobials challenge bonding properties and water sorption behaviour of an acrylic liner. <i>Journal of Dentistry</i> , 2012, 40, 693-699.	4.1	8
86	Creep deformation of restorative resin-composites intended for bulk-fill placement. <i>Dental Materials</i> , 2012, 28, 928-935.	3.5	98
87	Nanoindentation creep versus bulk compressive creep of dental resin-composites. <i>Dental Materials</i> , 2012, 28, 1171-1182.	3.5	30
88	Nanomechanical properties of dental resin-composites. <i>Dental Materials</i> , 2012, 28, 1292-1300.	3.5	110
89	Impregnation with antimicrobials has an impact on degree of conversion and colour stability of acrylic liner. <i>Dental Materials Journal</i> , 2012, 31, 1008-1013.	1.8	7
90	Finite element analysis of bonded model Class I ã€œrestorationsã€™ after shrinkage. <i>Dental Materials</i> , 2012, 28, 123-132.	3.5	29

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91	Viscoelastic stability of resin-composites under static and dynamic loading. Dental Materials, 2012, 28, e15-e18.	3.5	16
92	Effectiveness of self-adhesive luting cements in bonding to chlorhexidine-treated dentin. Dental Materials, 2012, 28, 495-501.	3.5	86
93	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
94	Initial polishing time affects gloss retention in resin composites. American Journal of Dentistry, 2012, 25, 303-6.	0.1	7
95	Degradation resistance of silorane, experimental ormocer and dimethacrylate resin-based dental composites. Journal of Oral Science, 2011, 53, 413-419.	1.7	48
96	Effect of Extraoral Aging Conditions on Mechanical Properties of Maxillofacial Silicone Elastomer. Journal of Prosthodontics, 2011, 20, 439-446.	3.7	43
97	Surface integrity of solvent-challenged ormocer-matrix composite. Dental Materials, 2011, 27, 173-179.	3.5	24
98	Diffusion and concurrent solubility of self-adhering and new resin-matrix composites during water sorption/desorption cycles. Dental Materials, 2011, 27, 197-205.	3.5	100
99	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
100	3D-FE analysis of soft liner-acrylic interfaces under shear loading. Dental Materials, 2011, 27, 445-454.	3.5	8
101	Experimental and FE shear-bonding strength at core/veneer interfaces in bilayered ceramics. Dental Materials, 2011, 27, 590-597.	3.5	56
102	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
103	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
104	Curing efficiency of high-intensity light-emitting diode (LED) devices. Journal of Oral Science, 2010, 52, 187-195.	1.7	31
105	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
106	Effect of Net Fiber Reinforcement Surface Treatment on Soft Denture Liner Retention and Longevity. Journal of Prosthodontics, 2010, 19, 258-262.	3.7	18
107	A laboratory evaluation of the physical and mechanical properties of selected root canal sealers. International Endodontic Journal, 2010, 43, 882-888.	5.0	16
108	Shrinkage Stresses Generated during Resin-Composite Applications: A Review. Journal of Dental Biomechanics, 2010, 1, .	1.2	124

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109	Sequential software processing of micro-XCT dental-images for 3D-FE analysis. <i>Dental Materials</i> , 2009, 25, e47-e55.	3.5	57
110	<i>In vitro</i> pulp chamber temperature rise from irradiation and exotherm of flowable composites. <i>International Journal of Paediatric Dentistry</i> , 2009, 19, 48-54.	1.8	53
111	Evaluation of Root Canal Obturation: A Three-dimensional In Vitro Study. <i>Journal of Endodontics</i> , 2009, 35, 541-544.	3.1	152
112	Edge strength of indirect restorative materials. <i>Journal of Dentistry</i> , 2009, 37, 799-806.	4.1	25
113	Effect of nanofillers' size on surface properties after toothbrush abrasion. <i>American Journal of Dentistry</i> , 2009, 22, 60-4.	0.1	46
114	Effect of filler size and shape on local nanoindentation modulus of resin-composites. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 3561-3566.	3.6	49
115	In-depth hardness profiles of Stainless Steel and Ni-Ti endodontic instrument cross-sections by nano-indentation. <i>International Endodontic Journal</i> , 2008, 41, 747-754.	5.0	4
116	Edge strength of resin-composite margins. <i>Dental Materials</i> , 2008, 24, 129-133.	3.5	41
117	Correlation of filler content and elastic properties of resin-composites. <i>Dental Materials</i> , 2008, 24, 932-939.	3.5	163
118	Initial versus final fracture of metal-free crowns, analyzed via acoustic emission. <i>Dental Materials</i> , 2008, 24, 1289-1295.	3.5	49
119	Extended Setting Shrinkage Behavior of Endodontic Sealers. <i>Journal of Endodontics</i> , 2008, 34, 90-93.	3.1	58
120	Three-dimensional Evaluation of Effectiveness of Hand and Rotary Instrumentation for Retreatment of Canals Filled with Different Materials. <i>Journal of Endodontics</i> , 2008, 34, 1370-1373.	3.1	128
121	Colour-stability and gloss-retention of silorane and dimethacrylate composites with accelerated aging. <i>Journal of Dentistry</i> , 2008, 36, 945-952.	4.1	79
122	Edge-strength of flowable resin-composites. <i>Journal of Dentistry</i> , 2008, 36, 63-68.	4.1	31
123	Ex vivo surface and mechanical properties of coated orthodontic archwires. <i>European Journal of Orthodontics</i> , 2008, 30, 661-667.	2.4	98
124	Effect of nanofillers in adhesive and aesthetic properties of dental resin-composites. <i>International Journal of Nano and Biomaterials</i> , 2007, 1, 116.	0.1	11
125	Effect of New Obturating Materials on Vertical Root Fracture Resistance of Endodontically Treated Teeth. <i>Journal of Endodontics</i> , 2007, 33, 732-736.	3.1	89
126	Shrinkage behaviour of flowable resin-composites related to conversion and filler-fraction. <i>Journal of Dentistry</i> , 2007, 35, 651-655.	4.1	107

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127	Time-dependent viscoelastic creep and recovery of flowable composites. <i>European Journal of Oral Sciences</i> , 2007, 115, 517-521.	1.5	56
128	3D-marginal adaptation versus setting shrinkage in light-cured microhybrid resin composites. <i>Dental Materials</i> , 2007, 23, 272-278.	3.5	72
129	Surface characterization of precious alloys treated with thione metal primers. <i>Dental Materials</i> , 2007, 23, 665-673.	3.5	40
130	A mathematical model for simulating the bone remodeling process under mechanical stimulus. <i>Dental Materials</i> , 2007, 23, 1073-1078.	3.5	162
131	Influence of P/L ratio and peroxide/amine concentrations on shrinkage-strain kinetics during setting of PMMA/MMA biomaterial formulations. <i>Biomaterials</i> , 2005, 26, 197-204.	11.4	68
132	In vitro degradation of polyurethane orthodontic elastomeric modules. <i>Journal of Oral Rehabilitation</i> , 2005, 32, 72-77.	3.0	54
133	Comparative assessment of the roughness, hardness, and wear resistance of aesthetic bracket materials. <i>Dental Materials</i> , 2005, 21, 890-894.	3.5	43
134	Surface characterization of modern resin composites: a multitechnique approach. <i>American Journal of Dentistry</i> , 2005, 18, 95-100.	0.1	46
135	Tensile properties of orthodontic elastomeric chains. <i>European Journal of Orthodontics</i> , 2004, 26, 157-162.	2.4	58
136	Titanium orthodontic brackets: structure, composition, hardness and ionic release. <i>Dental Materials</i> , 2004, 20, 693-700.	3.5	48
137	Multi-technique characterization of retrieved bone cement from revised total hip arthroplasties. <i>Journal of Materials Science: Materials in Medicine</i> , 2003, 14, 967-972.	3.6	13
138	In vitro characterization of two laboratory-processed resin composites. <i>Dental Materials</i> , 2003, 19, 393-398.	3.5	49
139	AFM and SEM study of the effects of etching on IPS-Empress 2™ dental ceramic. <i>Surface Science</i> , 2001, 491, 388-394.	1.9	24
140	Light intensity effects on resin-composite degree of conversion and shrinkage strain. <i>Dental Materials</i> , 2000, 16, 292-296.	3.5	393
141	High pressure liquid chromatography of dentin primers and bonding agents. <i>Dental Materials</i> , 2000, 16, 81-88.	3.5	12
142	Rheology of urethane dimethacrylate and diluent formulations. <i>Dental Materials</i> , 1999, 15, 257-261.	3.5	55