

# Kirsten L Van Landuyt

## List of Publications by Year in descending order

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124  
papers

11,658  
citations

44042

48  
h-index

27389

106  
g-index

125  
all docs

125  
docs citations

125  
times ranked

6275  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Critical Review of the Durability of Adhesion to Tooth Tissue: Methods and Results. Journal of Dental Research, 2005, 84, 118-132.	2.5	1,412
2	Systematic review of the chemical composition of contemporary dental adhesives. Biomaterials, 2007, 28, 3757-3785.	5.7	1,066
3	Buonocore memorial lecture. Adhesion to enamel and dentin: current status and future challenges. Operative Dentistry, 2003, 28, 215-35.	0.6	1,023
4	Clinical effectiveness of contemporary adhesives: A systematic review of current clinical trials. Dental Materials, 2005, 21, 864-881.	1.6	679
5	Bonding of an auto-adhesive luting material to enamel and dentin. Dental Materials, 2004, 20, 963-971.	1.6	463
6	Monomer-Solvent Phase Separation in One-step Self-etch Adhesives. Journal of Dental Research, 2005, 84, 183-188.	2.5	361
7	How much do resin-based dental materials release? A meta-analytical approach. Dental Materials, 2011, 27, 723-747.	1.6	345
8	Technique-Sensitivity of Contemporary Adhesives. Dental Materials Journal, 2005, 24, 1-13.	0.8	295
9	Bonding effectiveness of adhesive luting agents to enamel and dentin. Dental Materials, 2007, 23, 71-80.	1.6	289
10	Eight-year clinical evaluation of a 2-step self-etch adhesive with and without selective enamel etching. Dental Materials, 2010, 26, 1176-1184.	1.6	243
11	Is secondary caries with composites a material-based problem?. Dental Materials, 2015, 31, e247-e277.	1.6	234
12	Meta-analytical Review of Parameters Involved in Dentin Bonding. Journal of Dental Research, 2012, 91, 351-357.	2.5	196
13	The role of HEMA in one-step self-etch adhesives. Dental Materials, 2008, 24, 1412-1419.	1.6	181
14	How to simulate wear? Overview of existing methods. Dental Materials, 2006, 22, 693-701.	1.6	177
15	Nanolayering of phosphoric acid ester monomer on enamel and dentin. Acta Biomaterialia, 2011, 7, 3187-3195.	4.1	168
16	Bulk-filling of high C-factor posterior cavities: Effect on adhesion to cavity-bottom dentin. Dental Materials, 2013, 29, 269-277.	1.6	165
17	Extension of a one-step self-etch adhesive into a multi-step adhesive. Dental Materials, 2006, 22, 533-544.	1.6	143
18	Microtensile Bond Strength and Interfacial Characterization of 11 Contemporary Adhesives Bonded to Bur-cut Dentin. Operative Dentistry, 2010, 35, 94-104.	0.6	118

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19	Environmental Scanning Electron Microscopy Connected with Energy Dispersive X-ray Analysis and Raman Techniques to Study ProRoot Mineral Trioxide Aggregate and Calcium Silicate Cements in Wet Conditions and in Real Time. <i>Journal of Endodontics</i> , 2010, 36, 851-857.	1.4	111
20	Contamination of nanoparticles by endotoxin: evaluation of different test methods. <i>Particle and Fibre Toxicology</i> , 2012, 9, 41.	2.8	109
21	A randomized controlled study evaluating the effectiveness of a two-step self-etch adhesive with and without selective phosphoric-acid etching of enamel. <i>Dental Materials</i> , 2005, 21, 375-383.	1.6	105
22	Thirteen-year randomized controlled clinical trial of a two-step self-etch adhesive in non-cariou cervical lesions. <i>Dental Materials</i> , 2015, 31, 308-314.	1.6	103
23	Micro-tensile bond strength of adhesives bonded to class-I cavity-bottom dentin after thermo-cycling. <i>Dental Materials</i> , 2005, 21, 999-1007.	1.6	101
24	Are one-step adhesives easier to use and better performing? Multifactorial assessment of contemporary one-step self-etching adhesives. <i>Journal of Adhesive Dentistry</i> , 2009, 11, 175-90.	0.3	100
25	A 13-year clinical evaluation of two three-step etch-and-rinse adhesives in non-cariou class-V lesions. <i>Clinical Oral Investigations</i> , 2012, 16, 129-137.	1.4	96
26	Secondary caries: prevalence, characteristics, and approach. <i>Clinical Oral Investigations</i> , 2020, 24, 683-691.	1.4	94
27	Enzymatic degradation of adhesive-dentin interfaces produced by mild self-etch adhesives. <i>European Journal of Oral Sciences</i> , 2010, 118, 494-501.	0.7	89
28	Filler Debonding & Subhybrid-layer Failures in Self-etch Adhesives. <i>Journal of Dental Research</i> , 2010, 89, 1045-1050.	2.5	89
29	Three-year clinical effectiveness of a two-step self-etch adhesive in cervical lesions. <i>European Journal of Oral Sciences</i> , 2005, 113, 512-518.	0.7	83
30	Bonding effectiveness of two contemporary self-etch adhesives to enamel and dentin. <i>Journal of Dentistry</i> , 2009, 37, 872-883.	1.7	82
31	Bond strength of self-etch adhesives to dentin prepared with three different diamond burs. <i>Dental Materials</i> , 2008, 24, 978-985.	1.6	80
32	Nanoparticles in dentistry. <i>Dental Materials</i> , 2017, 33, 1298-1314.	1.6	78
33	Influence of Er,Cr:YSGG Laser Treatment on Microtensile Bond Strength of Adhesives to Enamel. <i>Operative Dentistry</i> , 2008, 33, 448-455.	0.6	75
34	Bonding effectiveness and interfacial characterization of a nano-filled resin-modified glass-ionomer. <i>Dental Materials</i> , 2009, 25, 1347-1357.	1.6	75
35	Five-year clinical effectiveness of a two-step self-etching adhesive. <i>Journal of Adhesive Dentistry</i> , 2007, 9, 7-10.	0.3	75
36	Effect of Water Storage on the Bonding Effectiveness of 6 Adhesives to Class I Cavity Dentin. <i>Operative Dentistry</i> , 2006, 31, 456-465.	0.6	73

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37	Toxicity of Nanoparticles Embedded in Paints Compared with Pristine Nanoparticles in Mice. <i>Toxicological Sciences</i> , 2014, 141, 132-140.	1.4	70
38	Nanoparticle release from dental composites. <i>Acta Biomaterialia</i> , 2014, 10, 365-374.	4.1	68
39	Agglomeration of titanium dioxide nanoparticles increases toxicological responses in vitro and in vivo. <i>Particle and Fibre Toxicology</i> , 2020, 17, 10.	2.8	66
40	Influence of dentin cavity surface finishing on micro-tensile bond strength of adhesives. <i>Dental Materials</i> , 2008, 24, 492-501.	1.6	64
41	Immediate bonding effectiveness of contemporary composite cements to dentin. <i>Clinical Oral Investigations</i> , 2010, 14, 569-577.	1.4	60
42	Monomer elution in relation to degree of conversion for different types of composite. <i>Journal of Dentistry</i> , 2015, 43, 1448-1455.	1.7	60
43	Long-term elution of monomers from resin-based dental composites. <i>Dental Materials</i> , 2019, 35, 477-485.	1.6	59
44	Restoring cervical lesions with flexible composites. <i>Dental Materials</i> , 2007, 23, 749-754.	1.6	58
45	Global Methylation and Hydroxymethylation in DNA from Blood and Saliva in Healthy Volunteers. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	58
46	Four-year clinical evaluation of a self-adhesive luting agent for ceramic inlays. <i>Clinical Oral Investigations</i> , 2013, 17, 739-750.	1.4	54
47	Influence of Three Specimen Fixation Modes on the Micro-tensile Bond Strength of Adhesives to Dentin. <i>Dental Materials Journal</i> , 2007, 26, 694-699.	0.8	53
48	Evaluation of cell responses toward adhesives with different photoinitiating systems. <i>Dental Materials</i> , 2015, 31, 916-927.	1.6	52
49	Dentin-smear remains at self-etch adhesive interface. <i>Dental Materials</i> , 2014, 30, 1147-1153.	1.6	50
50	Should we be concerned about composite (nano-)dust?. <i>Dental Materials</i> , 2012, 28, 1162-1170.	1.6	48
51	Scientific update on nanoparticles in dentistry. <i>International Dental Journal</i> , 2018, 68, 299-305.	1.0	48
52	Critical analysis of the influence of different parameters on the microtensile bond strength of adhesives to dentin. <i>Journal of Adhesive Dentistry</i> , 2008, 10, 7-16.	0.3	47
53	Epigenetic effects of carbon nanotubes in human monocytic cells. <i>Mutagenesis</i> , 2017, 32, 181-191.	1.0	46
54	Cytotoxicity and Bioactivity of Dental Pulp-Capping Agents towards Human Tooth-Pulp Cells: A Systematic Review of In-Vitro Studies and Meta-Analysis of Randomized and Controlled Clinical Trials. <i>Materials</i> , 2020, 13, 2670.	1.3	46

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55	Clinical effectiveness of a one-step self-etch adhesive in non-carious cervical lesions at 2 years. <i>Clinical Oral Investigations</i> , 2012, 16, 889-897.	1.4	42
56	NaOCl degradation of a HEMA-free all-in-one adhesive bonded to enamel and dentin following two air-blowing techniques. <i>Journal of Dentistry</i> , 2007, 35, 74-83.	1.7	40
57	Biofilm-induced changes to the composite surface. <i>Journal of Dentistry</i> , 2017, 63, 36-43.	1.7	40
58	Freshly-mixed and setting calcium-silicate cements stimulate human dental pulp cells. <i>Dental Materials</i> , 2018, 34, 797-808.	1.6	40
59	Three-year clinical performance of a HEMA-free one-step self-etch adhesive in non-carious cervical lesions. <i>European Journal of Oral Sciences</i> , 2011, 119, 511-516.	0.7	37
60	Degree of conversion and monomer elution of CQ/amine and TPO adhesives. <i>Dental Materials</i> , 2014, 30, 695-701.	1.6	36
61	The elution and breakdown behavior of constituents from various light-cured composites. <i>Dental Materials</i> , 2014, 30, 619-631.	1.6	35
62	Cyto-genotoxic and DNA methylation changes induced by different crystal phases of TiO <sub>2</sub> -np in bronchial epithelial (16-HBE) cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2017, 796, 1-12.	0.4	35
63	Bonding to ground versus unground enamel in fluorosed teeth. <i>Dental Materials</i> , 2007, 23, 1250-1255.	1.6	34
64	Development of a Self-etch Adhesive for Resin-modified Glass Ionomers. <i>Journal of Dental Research</i> , 2006, 85, 349-353.	2.5	33
65	Effect of dentin location and long-term water storage on bonding effectiveness of dentin adhesives. <i>Dental Materials Journal</i> , 2011, 30, 7-13.	0.8	33
66	A novel high sensitivity UPLC-MS/MS method for the evaluation of bisphenol A leaching from dental materials. <i>Scientific Reports</i> , 2018, 8, 6981.	1.6	31
67	Qualitative analysis of dental material ingredients, composite resins and sealants using liquid chromatography coupled to quadrupole time of flight mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1576, 90-100.	1.8	31
68	In-vitro transdental diffusion of monomers from adhesives. <i>Journal of Dentistry</i> , 2018, 75, 91-97.	1.7	31
69	Fatigue resistance of dentin/composite interfaces with an additional intermediate elastic layer. <i>European Journal of Oral Sciences</i> , 2005, 113, 77-82.	0.7	30
70	Intracellular uptake and toxicity of three different Titanium particles. <i>Dental Materials</i> , 2015, 31, 734-744.	1.6	30
71	Modified tricalcium silicate cement formulations with added zirconium oxide. <i>Clinical Oral Investigations</i> , 2017, 21, 895-905.	1.4	30
72	Technique sensitivity of water-free one-step adhesives. <i>Dental Materials</i> , 2008, 24, 1258-1267.	1.6	29

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73	Limited interaction of a self-adhesive flowable composite with dentin/enamel characterized by TEM. <i>Dental Materials</i> , 2017, 33, 209-217.	1.6	29
74	Quick bonding using a universal adhesive. <i>Clinical Oral Investigations</i> , 2020, 24, 2837-2851.	1.4	29
75	Microrotary fatigue resistance of a HEMA-free all-in-one adhesive bonded to dentin. <i>Journal of Adhesive Dentistry</i> , 2007, 9, 373-9.	0.3	29
76	Release and protein binding of components from resin based composites in native saliva and other extraction media. <i>Dental Materials</i> , 2015, 31, 496-504.	1.6	28
77	Bond Durability of Composite Luting Agents to Ceramic When Exposed to Long-term Thermocycling. <i>Operative Dentistry</i> , 2007, 32, 372-379.	0.6	27
78	Interfacial fracture toughness of aged adhesive-dentin interfaces. <i>Dental Materials</i> , 2015, 31, 462-472.	1.6	26
79	How effectively do hydraulic calcium-silicate cements re-mineralize demineralized dentin. <i>Dental Materials</i> , 2017, 33, 434-445.	1.6	26
80	Bonding effectiveness and interfacial characterization of a HEMA/TEGDMA-free three-step etch&rinse adhesive. <i>Journal of Dentistry</i> , 2008, 36, 767-773.	1.7	25
81	Simultaneous analysis of bisphenol A based compounds and other monomers leaching from resin-based dental materials by UHPLC-MS/MS. <i>Journal of Separation Science</i> , 2017, 40, 1063-1075.	1.3	25
82	Experimental tricalcium silicate cement induces reparative dentinogenesis. <i>Dental Materials</i> , 2018, 34, 1410-1423.	1.6	25
83	Optimization of the concentration of photo-initiator in a one-step self-etch adhesive. <i>Dental Materials</i> , 2009, 25, 982-988.	1.6	24
84	Temporal variability of global DNA methylation and hydroxymethylation in buccal cells of healthy adults: Association with air pollution. <i>Environment International</i> , 2018, 111, 301-308.	4.8	24
85	Effect of Opalescence® bleaching gels on the elution of bulk-fill composite components. <i>Dental Materials</i> , 2016, 32, 127-135.	1.6	23
86	Bisphenol A as degradation product of monomers used in resin-based dental materials. <i>Dental Materials</i> , 2021, 37, 1020-1029.	1.6	23
87	Two-year clinical evaluation of a self-adhesive luting agent for ceramic inlays. <i>Journal of Adhesive Dentistry</i> , 2010, 12, 151-61.	0.3	23
88	Nano-titanium dioxide modulates the dermal sensitization potency of DNCB. <i>Particle and Fibre Toxicology</i> , 2012, 9, 15.	2.8	22
89	Correlative micro-Raman/EPMA analysis of the hydraulic calcium silicate cement interface with dentin. <i>Clinical Oral Investigations</i> , 2016, 20, 1663-1673.	1.4	22
90	TEM interfacial characterization of an experimental self-adhesive filling material bonded to enamel/dentin. <i>Dental Materials</i> , 2011, 27, 818-824.	1.6	21

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91	Effect of Opalescence® bleaching gels on the elution of dental composite components. <i>Dental Materials</i> , 2015, 31, 745-757.	1.6	20
92	A randomized, controlled trial evaluating the three-year clinical effectiveness of two etch & rinse adhesives in cervical lesions. <i>Operative Dentistry</i> , 2004, 29, 376-85.	0.6	20
93	Five-year clinical performance of a HEMA-free one-step self-etch adhesive in noncarious cervical lesions. <i>Clinical Oral Investigations</i> , 2014, 18, 1045-1052.	1.4	19
94	Cytotoxicity and induction of DNA double-strand breaks by components leached from dental composites in primary human gingival fibroblasts. <i>Dental Materials</i> , 2013, 29, 971-979.	1.6	19
95	Cytotoxic effects of composite dust on human bronchial epithelial cells. <i>Dental Materials</i> , 2016, 32, 1482-1491.	1.6	19
96	Bonding to enamel using alternative Enamel Conditioner/etchants. <i>Dental Materials</i> , 2019, 35, 1415-1429.	1.6	19
97	No Evidence for DNA Double-strand Breaks Caused by Endodontic Sealers. <i>Journal of Endodontics</i> , 2012, 38, 636-641.	1.4	18
98	Zinc-Calcium-Fluoride Bioglass-Based Innovative Multifunctional Dental Adhesive with Thick Adhesive Resin Film Thickness. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 30120-30135.	4.0	18
99	Monomer release from direct and indirect adhesive restorations: A comparative in vitro study. <i>Dental Materials</i> , 2020, 36, 1275-1281.	1.6	18
100	Body distribution of SiO <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> core-shell nanoparticles after intravenous injection and intratracheal instillation. <i>Nanotoxicology</i> , 2016, 10, 567-574.	1.6	17
101	Injectable phosphopullulan-functionalized calcium-silicate cement for pulp-tissue engineering: An in-vivo and ex-vivo study. <i>Dental Materials</i> , 2020, 36, 512-526.	1.6	17
102	Investigating the in vitro metabolism of the dental resin monomers BisGMA, BisPMA, TCD-DI-HEA and UDMA using human liver microsomes and quadrupole time of flight mass spectrometry. <i>Toxicology</i> , 2019, 420, 1-10.	2.0	16
103	Survival of human dental pulp cells after 4-week culture in human tooth model. <i>Journal of Dentistry</i> , 2019, 86, 33-40.	1.7	15
104	Distinct autophagy-apoptosis related pathways activated by Multi-walled (NM 400) and Single-walled carbon nanotubes (NIST-SRM2483) in human bronchial epithelial (16HBE14o-) cells. <i>Journal of Hazardous Materials</i> , 2020, 387, 121691.	6.5	15
105	Saturation reduces in-vitro leakage of monomers from composites. <i>Dental Materials</i> , 2018, 34, 579-586.	1.6	14
106	Cytotoxic and genotoxic potential of respirable fraction of composite dust on human bronchial cells. <i>Dental Materials</i> , 2020, 36, 270-283.	1.6	13
107	The effect of water spray on the release of composite nano-dust. <i>Clinical Oral Investigations</i> , 2020, 24, 2403-2414.	1.4	12
108	Long-term elution of bisphenol A from dental composites. <i>Dental Materials</i> , 2021, 37, 1561-1568.	1.6	12

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109	Filtration efficiency of surgical and FFP3 masks against composite dust. <i>European Journal of Oral Sciences</i> , 2020, 128, 233-240.	0.7	11
110	Preclinical effectiveness of an experimental tricalcium silicate cement on pulpal repair. <i>Materials Science and Engineering C</i> , 2020, 116, 111167.	3.8	10
111	Human phase I in vitro liver metabolism of two bisphenolic diglycidyl ethers BADGE and BFDGE. <i>Toxicology Letters</i> , 2020, 332, 7-13.	0.4	10
112	Effect of low-shrinking composite on the bonding effectiveness of two adhesives in occlusal Class-I cavities. <i>Dental Materials Journal</i> , 2012, 31, 418-426.	0.8	9
113	Optimizing glass-ceramic bonding incorporating new silane technology in an experimental universal adhesive formulation. <i>Dental Materials</i> , 2021, 37, 894-904.	1.6	9
114	Hydrolytic stability of three-step etch-and-rinse adhesives in occlusal class-I cavities. <i>Clinical Oral Investigations</i> , 2013, 17, 1911-1918.	1.4	8
115	Re-mineralizing dentin using an experimental tricalcium silicate cement with biomimetic analogs. <i>Dental Materials</i> , 2017, 33, 505-513.	1.6	8
116	Bisphenol A release from short-term degraded resin-based dental materials. <i>Journal of Dentistry</i> , 2022, 116, 103894.	1.7	8
117	Identification of chemicals leaching from dental resin-based materials after in vitro chemical and salivary degradation. <i>Dental Materials</i> , 2022, 38, 19-32.	1.6	8
118	No evidence for the growth-stimulating effect of monomers on cariogenic Streptococci. <i>Clinical Oral Investigations</i> , 2017, 21, 1861-1869.	1.4	7
119	Assessing the estrogenic activity of chemicals present in resin based dental composites and in leachates of commercially available composites using the ERI±-CALUX bioassay. <i>Dental Materials</i> , 2021, 37, 1834-1844.	1.6	7
120	Dentin conditioned with a metal salt-based conditioner. <i>Dental Materials</i> , 2022, 38, 554-567.	1.6	3
121	Sample size considerations for restoration-longevity randomized controlled trials. <i>Journal of Adhesive Dentistry</i> , 2008, 10, 247.	0.3	3
122	BONDING TO FLUOROSSED TEETH. <i>Journal of Esthetic and Restorative Dentistry</i> , 2009, 21, 213-214.	1.8	2
123	Experimental resin-modified calcium-silicate cement containing N-(2-hydroxyethyl) acrylamide monomer for pulp tissue engineering. <i>Materials Science and Engineering C</i> , 2021, 126, 112105.	3.8	2
124	Bonding in Dentistry. , 2014, , 1-56.		0