Marie Huysmans

List of Publications by Year
in descending order

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142 papers	6,528 citations	50276 46 h-index	79698 73 g-index
150 all docs	150 docs citations	150 times ranked	4354 citing authors

#	Article	IF	Citations
1	Longevity of Posterior Composite Restorations. Journal of Dental Research, 2014, 93, 943-949.	5.2	520
2	12-year Survival of Composite vs. Amalgam Restorations. Journal of Dental Research, 2010, 89, 1063-1067.	5.2	424
3	Consensus report of the European Federation of Conservative Dentistry: erosive tooth wearâ€"diagnosis and management. Clinical Oral Investigations, 2015, 19, 1557-1561.	3.0	199
4	Estimated prevalence of erosive tooth wear in permanent teeth of children and adolescents: An epidemiological systematic review and meta-regression analysis. Journal of Dentistry, 2015, 43, 42-50.	4.1	176
5	Dental caries and periodontal diseases in the ageing population: call to action to protect and enhance oral health and wellâ€being as an essential component of healthy ageing â€“ Consensus report of group 4 of the joint <scp>EFP</scp>/<scp>ORCA</scp> workshop on the boundaries between caries and periodontal diseases. Journal of Clinical Periodontology, 2017, 44, S135-S144.	4.9	160
6	Clinical Studies of Dental Erosion and Erosive Wear. Caries Research, 2011, 45, 60-68.	2.0	146
7	Self-healing hybrid nanocomposites consisting of bisphosphonated hyaluronan and calcium phosphate nanoparticles. Biomaterials, 2014, 35, 6918-6929.	11.4	130
8	Is there one optimal repair technique for all composites?. Dental Materials, 2011, 27, 701-709.	3.5	126
9	Longevity of repaired restorations: A practice based study. Journal of Dentistry, 2012, 40, 829-835.	4.1	117
10	The Role of Fluoride in Erosion Therapy. Monographs in Oral Science, 2014, 25, 230-243.	1.8	111
11	Diet influenced tooth erosion prevalence in children and adolescents: Results of a meta-analysis and meta-regression. Journal of Dentistry, 2015, 43, 865-875.	4.1	110
12	Effect of three surface conditioning methods to improve bond strength of particulate filler resin composites. Journal of Materials Science: Materials in Medicine, 2005, 16, 21-27.	3.6	102
13	Relationship between Mineral Distributions in Dentine Lesions and Subsequent Remineralization in vitro. Caries Research, 2000, 34, 395-403.	2.0	90
14	Dynamics of tooth erosion in adolescents: A 3-year longitudinal study. Journal of Dentistry, 2010, 38, 131-137.	4.1	88
15	Erosionâ€inhibiting effect of sodium fluoride and titanium tetrafluoride treatment in vitro. European Journal of Oral Sciences, 2003, 111, 253-257.	1.5	86
16	Effect of Titanium Tetrafluoride, Amine Fluoride and Fluoride Varnish on Enamel Erosion in vitro. Caries Research, 2005, 39, 371-379.	2.0	85
17	Multifactorial Analysis of Factors Associated with the Incidence and Progression of Erosive Tooth Wear. Caries Research, 2011, 45, 303-312.	2.0	85
18	Longevity of direct restorations in Dutch dental practices. Descriptive study out of a practice based research network. Journal of Dentistry, 2016, 46, 12-17.	4.1	85

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19	Red Autofluorescence of Dental Plaque Bacteria. Caries Research, 2006, 40, 542-545.	2.0	84
20	Clinical failure of class-II restorations of a highly viscous glass-ionomer material over a 6-year period: A retrospective study. Journal of Dentistry, 2007, 35, 156-162.	4.1	80
21	European Core Curriculum in Cariology for undergraduate dental students. European Journal of Dental Education, 2011, 15, 9-17.	2.0	71
22	Does Incomplete Caries Removal Reduce Strength of Restored Teeth?. Journal of Dental Research, 2010, 89, 1270-1275.	5.2	68
23	Ultrasonic measurement of enamel thickness: a tool for monitoring dental erosion?. Journal of Dentistry, 2000, 28, 187-191.	4.1	67
24	Surface roughness of etched composite resin in light of composite repair. Journal of Dentistry, 2011, 39, 499-505.	4.1	66
25	A comparison of micro-CT, microradiography and histomorphometry in bone research. Archives of Oral Biology, 2008, 53, 558-566.	1.8	64
26	Clinical performance of direct composite restorations for treatment of severe tooth wear. Journal of Adhesive Dentistry, 2011, 13, 585-93.	0.5	60
27	Repair may increase survival of direct posterior restorations â€“ A practice based study. Journal of Dentistry, 2017, 64, 30-36.	4.1	59
28	Age of failed restorations: A deceptive longevity parameter. Journal of Dentistry, 2011, 39, 225-230.	4.1	58
29	Clinical performance of full rehabilitations with direct composite in severe tooth wear patients: 3.5 Years results. Journal of Dentistry, 2018, 70, 97-103.	4.1	58
30	Bonding polycarbonate brackets to ceramic: Effects of substrate treatment on bond strength. American Journal of Orthodontics and Dentofacial Orthopedics, 2004, 126, 220-227.	1.7	57
31	Reduction of Erosive Wear in situ by Stannous Fluoride-Containing Toothpaste. Caries Research, 2011, 45, 518-523.	2.0	57
32	Bacterial composition and red fluorescence of plaque in relation to primary and secondary caries next to composite: an in situ study. Oral Microbiology and Immunology, 2008, 23, 7-13.	2.8	56
33	Brushing Abrasion of Eroded Bovine Enamel Pretreated with Topical Fluorides. Caries Research, 2006, 40, 224-230.	2.0	53
34	Glossary of Key Terms. Monographs in Oral Science, 2009, 21, 209-216.	1.8	53
35	Detection of dental decay and its extent using a.c. impedence spectroscopy. Nature Medicine, 1996, 2, 235-237.	30.7	52
36	Gap Size and Wall Lesion Development Next to Composite. Journal of Dental Research, 2014, 93, 108S-113S.	5.2	52

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37	Restoration Materials and Secondary Caries Using an In Vitro Biofilm Model. Journal of Dental Research, 2015, 94, 62-68.	5.2	52
38	The influence of approximal restoration extension on the development of secondary caries. Journal of Dentistry, 2012, 40, 241-247.	4.1	51
39	A practice-based research network on the survival of ceramic inlay/onlay restorations. Dental Materials, 2016, 32, 687-694.	3.5	51
40	Anin vitrobiofilm model for enamel demineralization and antimicrobial dose-response studies. Biofouling, 2011, 27, 1057-1063.	2.2	50
41	Crown vs. composite for post-retained restorations: A randomized clinical trial. Journal of Dentistry, 2016, 48, 34-39.	4.1	50
42	Electrical Methods in Occlusal Caries Diagnosis: An in vitro Comparison with Visual Inspection and Biteâ€“Wing Radiography. Caries Research, 1998, 32, 324-329.	2.0	49
43	Inhibition of Erosive Wear by Fluoride Varnish. Caries Research, 2007, 41, 61-67.	2.0	49
44	In vitro biofilm models to study dental caries: a systematic review. Biofouling, 2017, 33, 661-675.	2.2	49
45	Toothbrush abrasion, simulated tongue friction and attrition of eroded bovine enamel in vitro. Journal of Dentistry, 2006, 34, 336-342.	4.1	48
46	Approximal Secondary Caries Lesion Progression, a 20-Week in situ Study. Caries Research, 2007, 41, 399-405.	2.0	48
47	A Practice-based Study on the Survival of Restored Endodontically Treated Teeth. Journal of Endodontics, 2013, 39, 1335-1340.	3.1	48
48	Risk Factors for Dental Restoration Survival: A Practice-Based Study. Journal of Dental Research, 2019, 98, 414-422.	5.2	47
49	Restoration techniques and marginal overhang in Class II composite resin restorations. Journal of Dentistry, 2009, 37, 712-717.	4.1	46
50	Caries Detection Methods: Can They Aid Decision Making for Invasive Sealant Treatment?. Caries Research, 2001, 35, 83-89.	2.0	45
51	Human and bovine enamel erosion under â€˜singleâ€drinkâ€™ conditions. European Journal of Oral Sciences, 2010, 118, 604-609.	1.5	45
52	Effectiveness of two new types of sealants: retention after 2Âyears. Clinical Oral Investigations, 2012, 16, 1443-1450.	3.0	45
53	Transversal Wavelength-Independent Microradiography, a Method for Monitoring Caries Lesions over Time, Validated with Transversal Microradiography. Caries Research, 2006, 40, 281-291.	2.0	44
54	Caries-preventive effect of sealants produced with altered glass-ionomer materials, after 2 years. Dental Materials, 2012, 28, 554-560.	3.5	43

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55	Longevity of Anterior Composite Restorations in a General Dental Practice-Based Network. Journal of Dental Research, 2017, 96, 1092-1099.	5.2	43
56	Fatigue Behavior of Direct Post-and-core-restored Premolars. Journal of Dental Research, 1992, 71, 1145-1150.	5.2	42
57	Effect of drying time of 3-methacryloxypropyltrimethoxysilane on the shear bond strength of a composite resin to silica-coated base/noble alloys. Dental Materials, 2004, 20, 586-590.	3.5	42
58	The reproducibility of ultrasonic enamel thickness measurements: an in vitro study. Journal of Dentistry, 2004, 32, 83-89.	4.1	41
59	Fluoride release and cariostatic potential of orthodontic adhesives with and without daily fluoride rinsing. American Journal of Orthodontics and Dentofacial Orthopedics, 2009, 136, 547-553.	1.7	39
60	A survey on education in cariology for undergraduate dental students in Europe. European Journal of Dental Education, 2011, 15, 3-8.	2.0	39
61	The influence of different restorative materials on secondary caries development in situ. Journal of Dentistry, 2014, 42, 1171-1177.	4.1	39
62	Finite element analysis of quasistatic and fatigue failure of post and cores. Journal of Dentistry, 1993, 21, 57-64.	4.1	37
63	Effect of exposure time onin vitrocaries diagnosis using the DigoraÂ® system. European Journal of Oral Sciences, 1997, 105, 15-20.	1.5	35
64	Effect of Salivary Factors on the Susceptibility of Hydroxyapatite to Early Erosion. Caries Research, 2011, 45, 532-537.	2.0	35
65	Hydrodynamic Flow through Loading and in vitro Secondary Caries Development. Journal of Dental Research, 2013, 92, 383-387.	5.2	32
66	Indirect restorations for severe tooth wear: Fracture risk and layer thickness. Journal of Dentistry, 2014, 42, 413-418.	4.1	32
67	Do light cured ART conventional high-viscosity glass-ionomer sealants perform better than resin-composite sealants: A 4-year randomized clinical trial. Dental Materials, 2014, 30, 487-492.	3.5	32
68	Case Report: A Predictable Technique to Establish Occlusal Contact in Extensive Direct Composite Resin Restorations: The DSO-Technique. Operative Dentistry, 2016, 41, S96-S108.	1.2	32
69	Saliva Parameters and Erosive Wear in Adolescents. Caries Research, 2013, 47, 548-552.	2.0	31
70	Effect of ethylene oxide sterilization on enamel and dentin demineralization in vitro. Journal of Dentistry, 2007, 35, 547-551.	4.1	30
71	Hydrofluoric acid on dentin should be avoided. Dental Materials, 2010, 26, 643-649.	3.5	30
72	Salivary Changes before and after Hematopoietic Stem Cell Transplantation: A Systematic Review. Biology of Blood and Marrow Transplantation, 2019, 25, 1055-1061.	2.0	30

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73	Effect of different surface treatment techniques on the repair strength of indirect composites. Journal of Dentistry, 2017, 59, 18-25.	4.1	29
74	The influence of simulated clinical handling on the flexural and compressive strength of posterior composite restorative materials. Dental Materials, 1996, 12, 116-120.	3.5	28
75	Surfaceâ€“Specific Electrical Occlusal Caries Diagnosis: Reproducibility, Correlation with Histological Lesion Depth, and Tooth Type Dependence. Caries Research, 1998, 32, 330-336.	2.0	28
76	Factors associated with the incidence of erosive wear in upper incisors and lower first molars: A multifactorial approach. Journal of Dentistry, 2011, 39, 558-563.	4.1	28
77	Estimated erosive potential depends on exposure time. Journal of Dentistry, 2012, 40, 1103-1108.	4.1	28
78	Ten-Year Survival of Class II Restorations Placed by General Practitioners. JDR Clinical and Translational Research, 2016, 1, 292-299.	1.9	27
79	A threshold gap size for in situ secondary caries lesion development. Journal of Dentistry, 2019, 80, 36-40.	4.1	27
80	Electrical Conductance and Electrode Area on Sound Smooth Enamel in Extracted Teeth. Caries Research, 1995, 29, 88-93.	2.0	26
81	Penetration of amalgam constituents into dentine. Journal of Dentistry, 2009, 37, 366-373.	4.1	26
82	Clinical performance of direct composite resin restorations in a full mouth rehabilitation for patients with severe tooth wear: 5.5-year results.. Journal of Dentistry, 2021, 112, 103743.	4.1	26
83	Bond strength of resin composite to differently conditioned amalgam. Journal of Materials Science: Materials in Medicine, 2006, 17, 7-13.	3.6	25
84	European Core Curriculum in Cariology for Undergraduate Dental Students. Caries Research, 2011, 45, 336-345.	2.0	24
85	A multifunctional device to simulate oral ageing: the â€œRub&Rollâ€• Journal of the Mechanical Behavior of Biomedical Materials, 2014, 30, 75-82.	3.1	24
86	Mechanical longevity estimation model for post-and-core restorations. Dental Materials, 1995, 11, 252-257.	3.5	23
87	Randomized controlled trial on the performance of direct and indirect composite restorations in patients with severe tooth wear. Dental Materials, 2021, 37, 1645-1654.	3.5	23
88	Influence of Beverage Composition on the Results of Erosive Potential Measurement by Different Measurement Techniques. Caries Research, 2008, 42, 98-104.	2.0	22
89	VivosorbÂ® as a barrier membrane in rat mandibular defects. An evaluation with transversal microradiography. International Journal of Oral and Maxillofacial Surgery, 2009, 38, 870-875.	1.5	22
90	Wall-lesion development in gaps: The role of the adhesive bonding material. Journal of Dentistry, 2015, 43, 1007-1012.	4.1	22

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91	Clinical relevance of studies on the visual and radiographic methods for detecting secondary caries lesions â€“ A systematic review. Journal of Dentistry, 2018, 75, 22-33.	4.1	22
92	Monitoring dental erosion by colour measurement: An in vitro study. Journal of Dentistry, 2008, 36, 731-735.	4.1	21
93	Secondary Caries Development in in situ Gaps next to Composite and Amalgam. Caries Research, 2015, 49, 557-563.	2.0	21
94	Shifts in the Microbial Population in Relation to in situ Caries Progression. Caries Research, 2012, 46, 427-431.	2.0	20
95	Minimal Gap Size and Dentin Wall Lesion Development Next to Resin Composite in a Microcosm Biofilm Model. Caries Research, 2017, 51, 475-481.	2.0	20
96	Prevalence and Associated Factors of Tooth Erosion in 8 -12-Year-Old Brazilian Schoolchildren. Journal of Clinical Pediatric Dentistry, 2017, 41, 343-350.	1.0	20
97	Minimally Invasive Intervention for Primary Caries Lesions: Are Dentists Implementing This Concept?. Caries Research, 2019, 53, 204-216.	2.0	20
98	Failure behaviour of fatigue-tested post and cores. International Endodontic Journal, 1993, 26, 294-300.	5.0	19
99	Temperature Dependence of the Electrical Resistance of Sound and Carious Teeth. Journal of Dental Research, 2000, 79, 1464-1468.	5.2	18
100	Reduction of Erosion by Protein-Containing Toothpastes. Caries Research, 2013, 47, 135-140.	2.0	18
101	Impact of tooth wear on masticatory performance. Journal of Dentistry, 2018, 76, 98-101.	4.1	18
102	The effect of pre-treatment levels of tooth wear and the applied increase in the vertical dimension of occlusion (VDO) on the survival of direct resin composite restorations.. Journal of Dentistry, 2021, 111, 103712.	4.1	18
103	Impact of Oral Side Effects from Conditioning Therapy Before Hematopoietic Stem Cell Transplantation: Protocol for a Multicenter Study. JMIR Research Protocols, 2018, 7, e103.	1.0	18
104	In vitro Reduction of Dental Erosion by Low-Concentration TiF4 Solutions. Caries Research, 2011, 45, 142-147.	2.0	17
105	Validity of Electrical Conductance Measurements in Evaluating the Marginal Integrity of Sealant Restorations. Caries Research, 1995, 29, 100-106.	2.0	16
106	An in vitro Comparison between Two Methods of Electrical Resistance Measurement for Occlusal Caries Detection. Caries Research, 2006, 40, 104-111.	2.0	15
107	A European Core Curriculum in Cariology: the knowledge base. European Journal of Dental Education, 2011, 15, 18-22.	2.0	15
108	Decision-making of general practitioners on interventions at restorations based on bitewing radiographs. Journal of Dentistry, 2018, 76, 109-116.	4.1	13

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109	Failure characteristics of endodontically treated premolars restored with a post and direct restorative material. International Endodontic Journal, 1992, 25, 121-129.	5.0	12
110	Wavelength-Dependent Fibre-Optic Transillumination of Small Approximal Caries Lesions: The Use of a Dye, and a Comparison to Bitewing Radiography. Caries Research, 1997, 31, 232-237.	2.0	12
111	Behavior of failed bonded interfaces under in vitro cariogenic challenge. Dental Materials, 2016, 32, 668-675.	3.5	12
112	A practice based longevity study on single-unit crowns. Journal of Dentistry, 2018, 74, 43-48.	4.1	12
113	Reproducibility of Electrical Caries Measurements: A Technical Problem?. Caries Research, 2005, 39, 403-410.	2.0	11
114	Long-term performance of resin based fissure sealants placed in a general dental practice. Journal of Dentistry, 2010, 38, 23-28.	4.1	11
115	Impact of restorative treatment of tooth wear upon masticatory performance. Journal of Dentistry, 2019, 88, 103159.	4.1	11
116	Proximal Marginal Overhang of Composite Restorations in Relation to Placement Technique of Separation Rings. Operative Dentistry, 2012, 37, 21-27.	1.2	10
117	Failed bonded interfaces submitted to microcosm biofilm caries development. Journal of Dentistry, 2016, 52, 63-69.	4.1	10
118	The Weibull distribution applied to post and core failure. Dental Materials, 1992, 8, 283-288.	3.5	9
119	Early salivary changes in multiple myeloma patients undergoing autologous <scp>HSCT</scp>. Oral Diseases, 2018, 24, 972-982.	3.0	9
120	Significant salivary changes in relation to oral mucositis following autologous hematopoietic stem cell transplantation. Bone Marrow Transplantation, 2021, 56, 1381-1390.	2.4	9
121	Bonding effectiveness of composite-dentin interfaces after mechanical loading with a new device (Rub&Roll). Dental Materials Journal, 2016, 35, 855-861.	1.8	8
122	Secondary caries development and the role of a matrix metalloproteinase inhibitor: A clinical in situ study. Journal of Dentistry, 2018, 71, 49-53.	4.1	8
123	Effect of Fluoridated Toothpicks and Dental Flosses on Enamel and Dentine and on Plaque Composition in situ. Caries Research, 2005, 39, 52-59.	2.0	7
124	Parallel post-space preparation in different tooth types ex vivo: deviation from the canal centre and remaining dentine thickness. International Endodontic Journal, 2007, 40, 778-785.	5.0	7
125	Effect of thickness of bonded composite resin on compressive strength. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 37, 42-47.	3.1	7
126	Impact of individual-risk factors on caries treatment performed by general dental practitioners. Journal of Dentistry, 2019, 81, 85-90.	4.1	7

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127	The facial effects of tooth wear rehabilitation as measured by 3D stereophotogrammetry. Journal of Dentistry, 2018, 73, 105-109.	4.1	6
128	Comparison between visual clinical examination and the replica method for assessments of sealant retention over a 2-year period. International Journal of Oral Science, 2014, 6, 111-115.	8.6	5
129	3D Facial Effects of a Simulated Dental Buildâ€up. Journal of Esthetic and Restorative Dentistry, 2016, 28, 397-404.	3.8	5
130	The effect of occlusal loading on cervical gap deformation: A 3D finite element analysis. Dental Materials, 2020, 36, 681-686.	3.5	5
131	Bonding Efficacy and Fracture Pattern of Adhesives Submitted to Mechanical Aging with the Rub&Roll Device. Journal of Adhesive Dentistry, 2017, 19, 59-68.	0.5	5
132	Oral complaints and dental care of haematopoietic stem cell transplant patients: a qualitative survey of patients and their dentists. Supportive Care in Cancer, 2015, 23, 13-19.	2.2	4
133	Mimicking and Measuring Occlusal Erosive Tooth Wear with the "Rub&Roll" and Non-contact Profilometry. Journal of Visualized Experiments, 2018, , .	0.3	3
134	Nonâ€carious cervical lesions (<scp>NCCLs</scp>) and associated factors: A multilevel analysis in a cohort study in southern Brazil. Journal of Clinical Periodontology, 2022, 49, 48-58.	4.9	3
135	Effects of alternating and direct electrical current application on the odontoblastic layer in human teeth: an in vitro study. International Endodontic Journal, 1999, 32, 459-463.	5.0	2
136	TO THE EDITOR:. Journal of Dental Research, 2003, 82, 862-863.	5.2	2
137	A new in situ model to study erosive enamel wear, a clinical pilot study. Journal of Dentistry, 2017, 57, 32-37.	4.1	2
138	A randomized controlled trial of manual versus powered tooth brushing during haematopoietic stem cell transplantation. Oral Diseases, 2022, 28, 1987-1994.	3.0	2
139	In vitro Effect of Occlusal Loading on Cervical Wall Lesion Development in a Class II Composite Restoration. Caries Research, 2022, 56, 91-97.	2.0	2
140	Caries Progression after Haematopoietic Stem Cell Transplantation and the Role of Hyposalivation. Caries Research, 2022, 56, 187-196.	2.0	2
141	The influence of three barrier membranes on modeling and incorporation of autologous onlay bone grafts in rats. An evaluation by transversal microradiography. Archives of Oral Biology, 2009, 54, 549-555.	1.8	0
142	Secundaire cariÃ«s en de rol van randspleten. , 2016, , 149-158.		0