

# Ya Shen

## List of Publications by Citations

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121  
papers

4,802  
citations

40  
h-index

67  
g-index

128  
ext. papers

5,672  
ext. citations

4.6  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
121	Irrigation in endodontics. <i>Dental Clinics of North America</i> , <b>2010</b> , 54, 291-312	3.3	315
120	Current challenges and concepts of the thermomechanical treatment of nickel-titanium instruments. <i>Journal of Endodontics</i> , <b>2013</b> , 39, 163-72	4.7	285
119	Physical properties of 5 root canal sealers. <i>Journal of Endodontics</i> , <b>2013</b> , 39, 1281-6	4.7	208
118	Antibacterial activity of endodontic sealers by modified direct contact test against <i>Enterococcus faecalis</i> . <i>Journal of Endodontics</i> , <b>2009</b> , 35, 1051-5	4.7	193
117	Antimicrobial efficacy of chlorhexidine against bacteria in biofilms at different stages of development. <i>Journal of Endodontics</i> , <b>2011</b> , 37, 657-61	4.7	179
116	A new noninvasive model to study the effectiveness of dentin disinfection by using confocal laser scanning microscopy. <i>Journal of Endodontics</i> , <b>2011</b> , 37, 1380-5	4.7	155
115	Comparison of defects in ProFile and ProTaper systems after clinical use. <i>Journal of Endodontics</i> , <b>2006</b> , 32, 61-5	4.7	145
114	Phase Transformation Behavior and Resistance to Bending and Cyclic Fatigue of ProTaper Gold and ProTaper Universal Instruments. <i>Journal of Endodontics</i> , <b>2015</b> , 41, 1134-8	4.7	134
113	Biocompatibility of two novel root repair materials. <i>Journal of Endodontics</i> , <b>2011</b> , 37, 793-8	4.7	130
112	Fatigue testing of controlled memory wire nickel-titanium rotary instruments. <i>Journal of Endodontics</i> , <b>2011</b> , 37, 997-1001	4.7	115
111	Dental materials with antibiofilm properties. <i>Dental Materials</i> , <b>2014</b> , 30, e1-16	5.7	113
110	Metallurgical characterization of controlled memory wire nickel-titanium rotary instruments. <i>Journal of Endodontics</i> , <b>2011</b> , 37, 1566-71	4.7	111
109	In vitro cytotoxicity of calcium silicate-containing endodontic sealers. <i>Journal of Endodontics</i> , <b>2015</b> , 41, 56-61	4.7	100
108	Root canal preparation of mandibular molars with 3 nickel-titanium rotary instruments: a micro-computed tomographic study. <i>Journal of Endodontics</i> , <b>2014</b> , 40, 1860-4	4.7	98
107	Effect of the source of biofilm bacteria, level of biofilm maturation, and type of disinfecting agent on the susceptibility of biofilm bacteria to antibacterial agents. <i>Journal of Endodontics</i> , <b>2013</b> , 39, 473-7	4.7	97
106	Evaluation of the effect of two chlorhexidine preparations on biofilm bacteria in vitro: a three-dimensional quantitative analysis. <i>Journal of Endodontics</i> , <b>2009</b> , 35, 981-5	4.7	95
105	Bacterial viability in starved and revitalized biofilms: comparison of viability staining and direct culture. <i>Journal of Endodontics</i> , <b>2010</b> , 36, 1820-3	4.7	87

104	Three-dimensional numeric simulation of root canal irrigant flow with different irrigation needles. <i>Journal of Endodontics</i> , <b>2010</b> , 36, 884-9	4.7	72
103	Mechanical properties of controlled memory and superelastic nickel-titanium wires used in the manufacture of rotary endodontic instruments. <i>Journal of Endodontics</i> , <b>2012</b> , 38, 1535-40	4.7	71
102	Factors associated with the removal of fractured NiTi instruments from root canal systems. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , <b>2004</b> , 98, 605-10		71
101	The synergistic antimicrobial effect by mechanical agitation and two chlorhexidine preparations on biofilm bacteria. <i>Journal of Endodontics</i> , <b>2010</b> , 36, 100-4	4.7	69
100	Effect of environment on fatigue failure of controlled memory wire nickel-titanium rotary instruments. <i>Journal of Endodontics</i> , <b>2012</b> , 38, 376-80	4.7	67
99	Dentin extends the antibacterial effect of endodontic sealers against <i>Enterococcus faecalis</i> biofilms. <i>Journal of Endodontics</i> , <b>2014</b> , 40, 505-8	4.7	65
98	Efficacy of ProTaper Universal Rotary Retreatment system for gutta-percha removal from oval root canals: a micro-computed tomography study. <i>Journal of Endodontics</i> , <b>2012</b> , 38, 1516-20	4.7	65
97	Tissue dissolution by a novel multisonic ultracleaning system and sodium hypochlorite. <i>Journal of Endodontics</i> , <b>2014</b> , 40, 1178-81	4.7	64
96	Effect of long-term exposure to endodontic disinfecting solutions on young and old <i>Enterococcus faecalis</i> biofilms in dentin canals. <i>Journal of Endodontics</i> , <b>2014</b> , 40, 509-14	4.7	62
95	Defects in nickel-titanium instruments after clinical use. Part 2: Fractographic analysis of fractured surface in a cohort study. <i>Journal of Endodontics</i> , <b>2009</b> , 35, 133-6	4.7	60
94	Defects in nickel-titanium instruments after clinical use. Part 1: Relationship between observed imperfections and factors leading to such defects in a cohort study. <i>Journal of Endodontics</i> , <b>2009</b> , 35, 129-32	4.7	60
93	Characteristics of Endodontic Emergencies during Coronavirus Disease 2019 Outbreak in Wuhan. <i>Journal of Endodontics</i> , <b>2020</b> , 46, 730-735	4.7	56
92	Treatment of Oral Multispecies Biofilms by an Anti-Biofilm Peptide. <i>PLoS ONE</i> , <b>2015</b> , 10, e0132512	3.7	56
91	In Vitro Efficacy of XP-endo Finisher with 2 Different Protocols on Biofilm Removal from Apical Root Canals. <i>Journal of Endodontics</i> , <b>2017</b> , 43, 321-325	4.7	54
90	Reasons for persistent and emerging post-treatment endodontic disease. <i>Endodontic Topics</i> , <b>2008</b> , 18, 31-50		49
89	In vitro study of calcium hydroxide removal from mandibular molar root canals. <i>Journal of Endodontics</i> , <b>2015</b> , 41, 553-8	4.7	45
88	Antibacterial coatings on titanium surfaces: a comparison study between in vitro single-species and multispecies biofilm. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5992-6001	9.5	44
87	Cyclic Fatigue of ProFile Vortex and Vortex Blue Nickel-Titanium Files in Single and Double Curvatures. <i>Journal of Endodontics</i> , <b>2015</b> , 41, 1686-90	4.7	44

86	Defects in nickel-titanium instruments after clinical use. Part 3: a 4-year retrospective study from an undergraduate clinic. <i>Journal of Endodontics</i> , <b>2009</b> , 35, 193-6	4-7	44
85	Does electropolishing improve the low-cycle fatigue behavior of a nickel-titanium rotary instrument in hypochlorite?. <i>Journal of Endodontics</i> , <b>2007</b> , 33, 1217-21	4-7	43
84	Physical properties and hydration behavior of a fast-setting bioceramic endodontic material. <i>BMC Oral Health</i> , <b>2016</b> , 16, 23	3-7	41
83	Phase transformation behavior and mechanical properties of thermomechanically treated K3XF nickel-titanium instruments. <i>Journal of Endodontics</i> , <b>2013</b> , 39, 919-23	4-7	41
82	Experimental and Theoretical Investigation of Multispecies Oral Biofilm Resistance to Chlorhexidine Treatment. <i>Scientific Reports</i> , <b>2016</b> , 6, 27537	4-9	40
81	Defects in nickel-titanium instruments after clinical use. Part 5: single use from endodontic specialty practices. <i>Journal of Endodontics</i> , <b>2009</b> , 35, 1363-7	4-7	38
80	Anti-Biofilm and Immunomodulatory Activities of Peptides That Inhibit Biofilms Formed by Pathogens Isolated from Cystic Fibrosis Patients. <i>Antibiotics</i> , <b>2014</b> , 3, 509-26	4-9	37
79	Cytotoxicity and the Effect of Temperature on Physical Properties and Chemical Composition of a New Calcium Silicate-based Root Canal Sealer. <i>Journal of Endodontics</i> , <b>2020</b> , 46, 531-538	4-7	34
78	ProFile Vortex and Vortex Blue Nickel-Titanium Rotary Instruments after Clinical Use. <i>Journal of Endodontics</i> , <b>2015</b> , 41, 937-42	4-7	33
77	Three-dimensional analysis of cutting behavior of nickel-titanium rotary instruments by microcomputed tomography. <i>Journal of Endodontics</i> , <b>2008</b> , 34, 606-10	4-7	33
76	Antibiofilm peptides against oral biofilms. <i>Journal of Oral Microbiology</i> , <b>2017</b> , 9, 1327308	6-3	31
75	Imbalance of interleukin-17+ T-cell and Foxp3+ regulatory T-cell dynamics in rat periapical lesions. <i>Journal of Endodontics</i> , <b>2014</b> , 40, 56-62	4-7	31
74	A 3D numerical study of antimicrobial persistence in heterogeneous multi-species biofilms. <i>Journal of Theoretical Biology</i> , <b>2016</b> , 392, 83-98	2-3	30
73	Effect of fatigue on torsional failure of nickel-titanium controlled memory instruments. <i>Journal of Endodontics</i> , <b>2014</b> , 40, 562-5	4-7	30
72	Combined Antibacterial Effect of Sodium Hypochlorite and Root Canal Sealers against <i>Enterococcus faecalis</i> Biofilms in Dentin Canals. <i>Journal of Endodontics</i> , <b>2015</b> , 41, 1294-8	4-7	28
71	ProFile Vortex instruments after clinical use: a metallurgical properties study. <i>Journal of Endodontics</i> , <b>2012</b> , 38, 1613-7	4-7	28
70	Fatigue Resistance of Nickel-titanium Instruments Exposed to High-concentration Hypochlorite. <i>Journal of Endodontics</i> , <b>2017</b> , 43, 1847-1851	4-7	27
69	WaveOne Rotary Instruments after Clinical Use. <i>Journal of Endodontics</i> , <b>2016</b> , 42, 186-9	4-7	27

68	Antibiofilm peptides against biofilms on titanium and hydroxyapatite surfaces. <i>Bioactive Materials</i> , <b>2018</b> , 3, 418-425	16.7	25
67	Evaluation of Root Canal Dentin Erosion after Different Irrigation Methods Using Energy-dispersive X-ray Spectroscopy. <i>Journal of Endodontics</i> , <b>2016</b> , 42, 1834-1839	4.7	23
66	Chemotherapeutic decontamination of dental implants colonized by mature multispecies oral biofilm. <i>Journal of Clinical Periodontology</i> , <b>2017</b> , 44, 403-409	7.7	21
65	Low Environmental Temperature Influences the Fatigue Resistance of Nickel-titanium Files. <i>Journal of Endodontics</i> , <b>2018</b> , 44, 626-629	4.7	21
64	Evaluation of the Susceptibility of Multispecies Biofilms in Dentinal Tubules to Disinfecting Solutions. <i>Journal of Endodontics</i> , <b>2016</b> , 42, 1246-50	4.7	21
63	Apical pressure created during irrigation with the GentleWave <sup>®</sup> system compared to conventional syringe irrigation. <i>Clinical Oral Investigations</i> , <b>2016</b> , 20, 1525-34	4.2	21
62	Defects in nickel-titanium instruments after clinical use. Part 4: an electropolished instrument. <i>Journal of Endodontics</i> , <b>2009</b> , 35, 197-201	4.7	19
61	Fatigue Resistance of a 3-dimensional Conforming Nickel-Titanium Rotary Instrument in Double Curvatures. <i>Journal of Endodontics</i> , <b>2016</b> , 42, 961-4	4.7	19
60	Evaluation of the Effect of Needle Position on Irrigant Flow in the C-shaped Root Canal Using a Computational Fluid Dynamics Model. <i>Journal of Endodontics</i> , <b>2015</b> , 41, 931-6	4.7	18
59	Root Canal Wall Dentin Structure in Uninstrumented but Cleaned Human Premolars: A Scanning Electron Microscopic Study. <i>Journal of Endodontics</i> , <b>2018</b> , 44, 842-848	4.7	17
58	What do different tests tell about the mechanical and biological properties of bioceramic materials?. <i>Endodontic Topics</i> , <b>2015</b> , 32, 47-85		17
57	Clinical use of bioceramic materials. <i>Endodontic Topics</i> , <b>2015</b> , 32, 97-117		16
56	Antibiofilm Effect of D-enantiomeric Peptide Alone and Combined with EDTA In Vitro. <i>Journal of Endodontics</i> , <b>2017</b> , 43, 1862-1867	4.7	15
55	Suppression of $\alpha 5 \beta 1$ Integrin Expression by Polymicrobial Oral Biofilms in Gingival Epithelial Cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 4411	4.9	15
54	Analysis of defects in ProTaper hand-operated instruments after clinical use. <i>Journal of Endodontics</i> , <b>2007</b> , 33, 287-90	4.7	15
53	Evaluation of Two Trepine Techniques for Removal of Fractured Rotary Nickel-titanium Instruments from Root Canals. <i>Journal of Endodontics</i> , <b>2017</b> , 43, 116-120	4.7	14
52	Quality of Root Filling after Obturation with Gutta-percha and 3 Different Sealers of Minimally Instrumented Root canals of the Maxillary First Molar. <i>Journal of Endodontics</i> , <b>2019</b> , 45, 1030-1035	4.7	13
51	Rare Root Canal Configuration of Bilateral Maxillary Second Molar Using Cone-beam Computed Tomographic Scanning. <i>Journal of Endodontics</i> , <b>2016</b> , 42, 673-7	4.7	13

50	A novel hydroxyapatite-binding antimicrobial peptide against oral biofilms. <i>Clinical Oral Investigations</i> , <b>2019</b> , 23, 2705-2712	4.2	13
49	A Micro-Computed Tomographic Assessment of the Influence of Operator's Experience on the Quality of WaveOne Instrumentation. <i>Journal of Endodontics</i> , <b>2016</b> , 42, 1258-62	4.7	12
48	Influence of Endodontic Procedure on the Adherence of <i>Enterococcus faecalis</i> . <i>Journal of Endodontics</i> , <b>2019</b> , 45, 943-949	4.7	11
47	Effect of a combination of torsional and cyclic fatigue preloading on the fracture behavior of K3 and K3XF instruments. <i>Journal of Endodontics</i> , <b>2015</b> , 41, 526-30	4.7	11
46	In vitro evaluation by quantitative real-time PCR and culturing of the effectiveness of disinfection of multispecies biofilms in root canals by two irrigation systems. <i>Clinical Oral Investigations</i> , <b>2019</b> , 23, 913-920	4.2	11
45	Effect of Torsional and Fatigue Preloading on HyFlex EDM Files. <i>Journal of Endodontics</i> , <b>2018</b> , 44, 643-647	4.7	10
44	Antimicrobial Effect of Peptide DJK-5 Used Alone or Mixed with EDTA on Mono- and Multispecies Biofilms in Dentin Canals. <i>Journal of Endodontics</i> , <b>2018</b> , 44, 1709-1713	4.7	10
43	Mechanical behavior of ProTaper universal F2 finishing file under various curvature conditions: a finite element analysis study. <i>Journal of Endodontics</i> , <b>2011</b> , 37, 1446-50	4.7	9
42	Doxycycline release and antibacterial activity from PMMA/PEO electrospun fiber mats. <i>Journal of Applied Oral Science</i> , <b>2019</b> , 27, e20180663	3.3	9
41	External Cervical Resorption: A Retrospective Case-Control Study. <i>Journal of Endodontics</i> , <b>2020</b> , 46, 1420-1427	4.7	8
40	Effect of iRoot Fast Set root repair material on the proliferation, migration and differentiation of human dental pulp stem cells in vitro. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186848	3.7	8
39	Resumption of Endodontic Practices in COVID-19 Hardest-Hit Area of China: A Web-based Survey. <i>Journal of Endodontics</i> , <b>2020</b> , 46, 1577-1583.e2	4.7	8
38	Effects of two fast-setting pulp-capping materials on cell viability and osteogenic differentiation in human dental pulp stem cells: An in vitro study. <i>Archives of Oral Biology</i> , <b>2019</b> , 100, 100-105	2.8	8
37	Physicochemical and Biological Evaluation of Endodontic Filling Materials for Primary Teeth. <i>Brazilian Dental Journal</i> , <b>2017</b> , 28, 578-586	1.9	7
36	Remaining root dentin thickness in mesiobuccal canals of maxillary first molars after attempted removal of broken instrument fragments. <i>Australian Endodontic Journal</i> , <b>2015</b> , 41, 122-7	1.7	7
35	Modeling Oral Multispecies Biofilm Recovery After Antibacterial Treatment. <i>Scientific Reports</i> , <b>2019</b> , 9, 804	4.9	6
34	Evaluation of Quality and Preparation Time of Retrograde Cavities in Root Canals Filled with GuttaCore and Cold Lateral Condensation Technique. <i>Journal of Endodontics</i> , <b>2018</b> , 44, 639-642	4.7	6
33	Decontamination of rough implant surfaces colonized by multispecies oral biofilm by application of leukocyte- and platelet-rich fibrin. <i>Journal of Periodontology</i> , <b>2021</b> , 92, 875-885	4.6	6

32	Fatigue resistance of ProTaper gold exposed to high-concentration sodium hypochlorite in double curvature artificial canal. <i>Bioactive Materials</i> , <b>2019</b> , 4, 245-248	16.7	5
31	The remaining dentin thickness investigation of the attempt to remove broken instrument from mesiobuccal canals of maxillary first molars with virtual simulation technique. <i>BMC Oral Health</i> , <b>2015</b> , 15, 87	3.7	5
30	Effect of Long-term Exposure to Peptides on Mono- and Multispecies Biofilms in Dentinal Tubules. <i>Journal of Endodontics</i> , <b>2019</b> , 45, 1522-1528	4.7	5
29	Epidermal growth factor receptor signaling suppresses $\alpha 5 \beta 1$ integrin and promotes periodontal inflammation and bone loss. <i>Journal of Cell Science</i> , <b>2019</b> , 133,	5.3	5
28	Removal of calcifications from distal canals of mandibular molars by a non-instrumentational cleaning system: A micro-CT study. <i>Australian Endodontic Journal</i> , <b>2020</b> , 46, 11-16	1.7	4
27	A micro-computed tomography study of the negotiation and anatomical feature in apical root canal of mandibular molars. <i>Scanning</i> , <b>2016</b> , 38, 819-824	1.6	4
26	Characteristics of the Irrigant Flow in a Simulated Lateral Canal Under Two Typical Laser-Activated Irrigation Regimens. <i>Lasers in Surgery and Medicine</i> , <b>2020</b> , 53, 587	3.6	4
25	Bifunctional bioceramics stimulating osteogenic differentiation of a gingival fibroblast and inhibiting plaque biofilm formation. <i>Biomaterials Science</i> , <b>2016</b> , 4, 639-51	7.4	3
24	Intra-operative application of chlorhexidine gel reduces bacterial counts in internal implant cavity. <i>European Journal of Oral Sciences</i> , <b>2015</b> , 123, 425-31	2.3	3
23	The ability of different irrigation methods to remove mixtures of calcium hydroxide and barium sulphate from isthmuses in 3D printed transparent root canal models. <i>Odontology / the Society of the Nippon Dental University</i> , <b>2021</b> , 1	3.6	3
22	Antibiofilm Activity of Five Different Endodontic Filling Materials Used in Primary Teeth Using Confocal Laser Scanning Microscopy. <i>Pediatric Dentistry (discontinued)</i> , <b>2017</b> , 39, 145-149	1.2	3
21	Dynamics of Dissolution, Killing, and Inhibition of Dental Plaque Biofilm. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 964	5.7	2
20	Effect of Curvature Location on Fatigue Resistance of Five Nickel-titanium Files Determined at Body Temperature. <i>Journal of Endodontics</i> , <b>2020</b> , 46, 1682-1688	4.7	2
19	Torque Generation of the Endodontic Instruments: A Narrative Review.. <i>Materials</i> , <b>2022</b> , 15,	3.5	2
18	Root dentine thickness in C-shaped lower second molars after instrumentation: A CBCT and micro-CT study. <i>Australian Endodontic Journal</i> , <b>2021</b> , 47, 122-129	1.7	2
17	Effect of canal curvature location on the cyclic fatigue resistance of reciprocating files. <i>Clinical Oral Investigations</i> , <b>2021</b> , 25, 169-177	4.2	2
16	Efficacy of XP-endo instruments in removing 54 month-aged root canal filling material from mandibular molars. <i>Journal of Dentistry</i> , <b>2021</b> , 112, 103734	4.8	2
15	Effects of dentine surface cleaning on bonding of a self-etch adhesive to root canal sealer-contaminated dentine. <i>Journal of Dentistry</i> , <b>2021</b> , 112, 103766	4.8	2

14	Biomaterial scaffolds for clinical procedures in endodontic regeneration.. <i>Bioactive Materials</i> , <b>2022</b> , 12, 257-277	16.7	1
13	Geometric Analysis of the Distolingual Root and Canal in Mandibular First Molars: A Micro-computed Tomographic Study. <i>Journal of Endodontics</i> , <b>2021</b> , 47, 779-786	4.7	1
12	Effectiveness of photon-initiated photoacoustic streaming in root canal models with different diameters or tapers. <i>BMC Oral Health</i> , <b>2021</b> , 21, 307	3.7	1
11	Long-term porosity and retreatability of oval-shaped canals obturated using two different methods with a novel tricalcium silicate sealer. <i>Clinical Oral Investigations</i> , <b>2021</b> , 1	4.2	1
10	Effects of Root Canal Curvature and Mechanical Properties of Nickel-Titanium Files on Torque Generation. <i>Journal of Endodontics</i> , <b>2021</b> , 47, 1501-1506	4.7	1
9	Effect of apical size on apical pressure during syringe-needle and multisonic negative pressure irrigation. <i>Odontology / the Society of the Nippon Dental University</i> , <b>2021</b> , 109, 625-631	3.6	1
8	Antibiofilm and immunomodulatory resorbable nanofibrous filing for dental pulp regenerative procedures.. <i>Bioactive Materials</i> , <b>2022</b> , 16, 173-186	16.7	0
7	In vitro evaluation of the antibacterial effect of four root canal sealers on dental biofilms.. <i>Clinical Oral Investigations</i> , <b>2022</b> , 1	4.2	0
6	Micro-computed Tomographic Evaluation of the Quality of Root Canal Fillings in Mandibular Molars after Obturation for 54 Months. <i>Journal of Endodontics</i> , <b>2021</b> , 47, 1783-1789	4.7	0
5	YA SHEN, DDS, PHD, Assistant Professor, Division of Endodontics, Department of Oral Biological & Medical Sciences, Faculty of Dentistry, University of British Columbia, Vancouver, Canada. <i>Endodontic Topics</i> , <b>2015</b> , 32, 127-127		
4	Ya Shen, DDS, PHD, Assistant Professor, Division of Endodontics, Department of Oral Biological & Medical Sciences, Faculty of Dentistry, University of British Columbia, Vancouver, Canada. <i>Endodontic Topics</i> , <b>2013</b> , 29, 169-169		
3	YA SHEN, DDS, PHD, Assistant Professor, Division of Endodontics, Department of Oral Biological & Medical Sciences, Faculty of Dentistry, University of British Columbia, Vancouver, Canada. <i>Endodontic Topics</i> , <b>2010</b> , 22, 134-134		
2	Ya Shen, DDS, PHD, Assistant Professor, Division of Endodontics, Department of Oral Biological & Medical Sciences, Faculty of Dentistry, University of British Columbia, Vancouver, Canada. <i>Endodontic Topics</i> , <b>2012</b> , 27, 110-110		
1	Characterisation of deformed or separated nickel-titanium retreatment instruments after clinical use - A multicentre experience: Defect profiles of clinically-used retreatment instruments.. <i>Journal of Dentistry</i> , <b>2021</b> , 117, 103939	4.8	