

CURRICULUM VITAE



Prof. Hyeon-Cheol Kim. DDS, MS, PhD

Dr. Kim graduated from Pusan National University School of Dentistry (PNUD). He finished the Resident program for the specialty of Conservative Dentistry at the Pusan National University Hospital and got his PhD degree at the same University.

After having 3-year of Navy Doctor service and Private dental practice for 3 years, since 2004 Dr. Kim has been working as a full-time faculty at the Pusan National University School of Dentistry.

Dr. Kim worked at the University of Minnesota Bio-Engineering Laboratory, School of Dentistry, University of Minnesota as a visiting research scholar to study about bone cement, biomaterial and biomechanics during the year 2008.

He was the Former Chair in the Department of Conservative Dentistry, School of Dentistry.

Prof. Kim had devoted at PNUD as Vice Dean since 2015 for 4 years and then as Dean for 2 years from 2019 to 2021.

Dr. Kim has published more than 100 articles in the peer review international journals such as Journal of Endodontics, International Endodontic Journals, Australian Endodontic Journal and Restorative Dentistry & Endodontics, etc.

Prof. Kim is an active member of international endodontic society and now in the position of President at the APEC (Asian Pacific Endodontic Confederation).

Dr. Kim also works as a Scientific advisory board member for the Journal of Endodontics and taking the position of Associate Editor for the “European Endodontic Journal”, “Restorative Dentistry & Endodontics” and “Journal of Korean Dental Science”.

Prof. Kim has been actively giving lectures about the contemporary clinical Endodontics and materials based on his research evidence in many countries of global dental societies.

EDUCATION and ACADEMIC DEGREES

DDS from Pusan National University

MSD in Dentistry from Pusan National University

PhD from Pusan National University (major in Conservative Dentistry and Prosthodontics)

PROFESSIONAL QUALIFICATIONS

Visiting professor at University of Minnesota Bio-Engineering Laboratory, School of Dentistry, University of Minnesota, Minneapolis, MN, USA
(2008)

Council, The Korea Food and Drug Administration (2011.5-2013.5)

Director, Department of Education and Research, Pusan National University Dental Hospital (2010.9-2014.8)

Director, Dental Research Institute, Pusan National University Dental Hospital (2013.2-2015.1)

Director, Advanced Dental Device Commercializing Center (2018-2019)

Vice-Chair, Busan Metropolitan City Dental Industry Support Committee (2019.7-present)

Vice Dean, Pusan National University School of Dentistry (2015.9-2019.2)

Dean, Pusan National University School of Dentistry (2019.3-2021.2)

ACTIVITIES IN ACADEMIC SOCIETY

International Federation of Endodontic Association (IFEA) World Endodontic Congress (WEC); 11th WEC Seoul Korea Local Organizing Committee, Director of Scientific Committee (2016-2018)

Asian Pacific Endodontic Confederation; Council (2013-2017), Secretary (2017-2019), **President-elect (2019-2021), President (2021-present),**

Korean Academy of Endodontics; Director, Scientific Committee (2009-2014), Treasurer (2014-2015), Director, Communication department (2015-2017), Secretary (2017-2019), **Vice President (2019-present)**

Korean Academy of Conservative Dentistry; Director, International Relationship (2011-2013), Training and Test Affair (2015-2017), Director of Scientific committee (2017-2019), **Secretary (2019-2021)**

Korean Academy of Microscope Dentistry, Director, Scientific Committee (2013-2017), Secretary (2017-2019), **Vice President (2019-present)**

■ Main Research Scope

NiTi endodontic instruments, Fracture resistance, Fatigue analysis, Endodontic materials, Clinical endodontics

■ **International Publications (from 2008, English publications included)**

	title	Authors	Journal	year	vol (issue)	pages
1	Comparison of Forces Generated During Root Canal Shaping and Residual Stresses of Three Nickel-Titanium Rotary Files by Using a Three-Dimensional Finite-element Analysis	Hyeon-Cheol Kim, Gary Cheung, Chan Joo Lee, Byung Min Kim, Jeong Kil Park, Soonll Kang	Journal of Endodontics	2008	34(6)	743-747
2	Stress distribution of three NiTi rotary files under bending and torsional conditions using a mathematic analysis	Tae Oh Kim, Gary Cheung, Jeong Min Lee, Byung Min Kim, Bock Hur, Hyeon-Cheol Kim	International Endodontic Journal	2009	42(1)	14-21
3	Mechanical response of nickel-titanium instruments with different cross-sectional designs during shaping of simulated curved canals	Hyeon-Cheol Kim, Hyeon Joo Kim, Chan Joo Lee, Byung Min Kim, Jeong Kil Park, Anthenius Versluis	International Endodontic Journal	2009	42(7)	593-602

4	Cyclic fatigue and fracture characteristics of ground and twisted NiTi rotary files	Hyeon-Cheol Kim, Jiwan Yum, Bock Hur, Gary Cheung, Jeong-Kil Park	Journal of Endodontics	2010	36(1)	147-152
5	Dynamic torsional resistance of Nickel-Titanium rotary instruments	Soo Young Park, Gary Cheung, Jiwan Yum, Bock Hur, Jeong-Kil Park, Hyeon-Cheol Kim	Journal of Endodontics	2010	36(7)	1195-1199
6	Potential relationship between design of NiTi rotary instruments and Vertical Root Fracture	Hyeon-Cheol Kim, Min-Ho Lee, Jiwan Yum, A Versluis, Chan-Joo Lee, Byung-Min Kim	Journal of Endodontics	2010	36(7)	1200-1204
7	Torsional strength and toughness of Nickel-Titanium rotary files	Jiwan Yum, Hyeon-Cheol Kim, Gary Cheung, Jeong-Kil Park, Bock Hur	Journal of Endodontics	2011	37(3)	382-386
8	Characteristics of non-carious cervical lesions – an ex vivo study using micro computed tomography	Bock Hur, Hyeon-Cheol Kim, Jeong-Kil Park, Anthenius Versluis	J Oral Rehabil	2011	38(6)	395-474
9	Correlation between experimental cyclic fatigue resistance and numerical stress analysis of NiTi rotary files at various root canal curvatures	Min-Ho Lee, Anthenius Versluis, Byung-Min Kim, Chan-Joo Lee, Bock Hur, Hyeon-Cheol Kim	Journal of Endodontics	2011	37(8)	1152-1157

10	Ex Vivo Mechanical Properties of Dental Implant Bone Cement Used to Rescue Initially Unstable Dental Implants: A Rabbit Study	Wook-Jin Seong, Hyeon-Cheol Kim, Soocheol Jeong, Dan L. DeVeau, Conrado Aparicio, Yuping Li, James S. Hodges	INTERNATIONAL JOURNAL OF ORAL & MAXILLOFACIAL IMPLANTS	2011	26	826-836
11	Comparison of torsional stiffness of nickel-titanium rotary files with different geometric characteristics	Seung-Ho Baek, Chan-Joo Lee, Antheunis Versluis, Byung-Min Kim, WooCheol Lee, Hyeon-Cheol Kim	Journal of Endodontics	2011	37(9)	1283-1286
12	Shaping Ability of Reciprocating Motion in Curved Root Canals: A Comparative Study using Micro-Computed Tomography	Sung-Yeop You, Hyeon-Cheol Kim, Kwang-Shik Bae, Seung-Ho Baek, Kee-Yeon Kum, WooCheol Lee	Journal of Endodontics	2011	37(9)	1296-1300
13	Analysis of the Cause of Failure in Nonsurgical Endodontic Treatment by Microscopic Inspection during Endodontic Microsurgery	Minju Song, Hyeon-Cheol Kim, WooCheol Lee, Euseong Kim	Journal of Endodontics	2011	37(11)	1516-1519
14	Effect from cyclic fatigue of Nickel-Titanium rotary files on torsional resistance	Ju-Yeong Kim, Gary Shun-Pan Cheung, Se-Hee Park, Dae-Cheol	Journal of Endodontics	2012	38(4)	527-530

		Ko, Jin-Wook Kim, Hyeon-Cheol Kim				
15	Effect of Laser-activated Irrigation of 1320-Nanometer Nd:YAG Laser on Sealer Penetration in Curved Root Canals	Young-Mi Moon, Hyeon-Cheol Kim, Kwang-Shik Bae, Seung-Ho Baek, Won-Jun Shon, WooCheol Lee	Journal of Endodontics	2012	38(4)	531-535
16	Cyclic fatigue and torsional resistance of two brand new NiTi instruments used in reciprocation motion: Reciproc vs. WaveOne	Hyeon-Cheol Kim, Sang-Won Kwak, Gary Cheung, Dae-Hoon Ko, Se-Min Chung, WooCheol Lee	Journal of Endodontics	2012	38(4)	541-544
17	Outcome of intentionally replanted molars according to preoperative periapical lesion and tooth location	WooCheol Lee, Won-Jun Shon, Seung-Ho Baek, Kee-Yeon Kum, Hyeon-Cheol Kim	Journal of Dental Sciences	2012	7(2)	125-129
18	Flexural stiffness and stresses in nickel-titanium rotary files for various pitch and cross-sectional geometries	Antheunis Versluis, Hyeon-Cheol Kim, WooCheol Lee, Byung-Min Kim, Chan-Joo Lee	Journal of Endodontics	2012	38(10)	1399-1403

19	A Survey of Experience-based Preference of Nickel-Titanium Rotary Files and Incidence of Fracture among General Dentists in Korea	WooCheol Lee, Minju Song, Euseong Kim, Hyojin Lee, Hyeon-Cheol Kim	Restorative Dentistry & Endodontics	2012	37(4)	201-206
20	Incidence of three roots and/or four root canals in the permanent mandibular first molars in a Korean sub-population	Ju-Kyong Jang, Ove A Peters, WooCheol Lee, Sung-Ae Son, Jeong-Kil Park, Hyeon-Cheol Kim	Clin Oral Investig	2013	17(1)	105-111
21	Comparison of the centering ability of Wave-One and Reciproc nickel-titanium instruments in simulated curved canals	Young-Jun Lim, Su-Jung Park, Hyeon-Cheol Kim, Kyung-San Min	Restorative Dentistry & Endodontics	2013	38(1)	21-25
22	Cyclic fatigue resistance tests of Nickel-Titanium rotary files using simulated canal and weight loading conditions	Ok-In Cho, Antheunis Versluis, Gary SP Cheung, Jung-Hong Ha, Bock Hur, Hyeon-Cheol Kim	Restorative Dentistry & Endodontics	2013	38(1)	31-35
23	Effect of R-phase heat treatment on torsional resistance and cyclic fatigue fracture	Jung-Hong Ha, Sung Kyo Kim, Nestor Cohenca, Hyeon-Cheol Kim	Journal of Endodontics	2013	39(3)	389-393
24	Micro-Computed Tomography and Scanning Electron Microscopy Comparisons of Two Nickel-Titanium	HEE-CHUL KIM, YOU-JEONG HWANG, DA-WOON JUNG, SUNG-	Scanning	2013	35(2)	112-118

	Rotary Root Canal Instruments Used with Reciprocating Motion	YEOP YOU, HYEON-CHEOL KIM, WOO CHEOL LEE				
25	Long-term observation of the MTA extrusion into the periapical lesion: a case series	Seok-Woo Chang, Tae-Seok Oh, WooCheol Lee, Gary Shun-Pan Cheung, Hyeon-Cheol Kim	Int J Oral Sci	2013	5(1)	54-57
26	Characteristics of novel root-end filling material using epoxy resin and Portland cement	Sang-Jin Lee, Jin Chung, Hee-Sam Na, Eun-Joo Park, Hyo-Jin Jeon, Hyeon-Cheol Kim	Clin Oral Investig	2013	17(3)	1009-1015
27	The effects of image acquisition control of digital X-ray system on radiodensity quantification	Wook-Jin Seong, Hyeon-Cheol Kim, Soochol Jeong, Youngcheul Heo, Woo-Bin Song, Mansur Ahmad	Restorative Dentistry & Endodontics	2013	38(3)	146-153
28	Multivariate analysis of the cleaning efficacy of different final irrigation techniques in the canal and isthmus of mandibular posterior teeth	Yeon-Jee Yoo, WooCheol Lee, Hyeon-Cheol Kim, Won-Jun Shon, Seung-Ho Baek	Restorative Dentistry & Endodontics	2013	38(3)	154-159

29	The Influence of Bone Tissue Deficiency on the Outcome of Endodontic Microsurgery: A Prospective Study	Minju Song, Sahng Gyoon Kim, Su-Jung Shin, Hyeon-Cheol Kim, Euseong Kim	Journal of Endodontics	2013	39(11)	1341-1345
30	Stress generation during Self-Adjusting File movement: Minimally invasive instrumentation	Hyeon-Cheol Kim, Sang Yup Sung, Jung-Hong Ha, Michael Solomonov, Jung-Min Lee, Chan-Joo Lee, Byung-Min Kim	Journal of Endodontics	2013	39(12)	1572-1575
31	Effect of torsional loading of Nickel-Titanium instruments on cyclic fatigue resistance	Gary Shun-Pan Cheung, Seung-Hei Oh, Jung-Hong Ha, Sung Kyo Kim, Se-Hee Park, Hyeon-Cheol Kim	Journal of Endodontics	2013	39(12)	1593-1597
32	The effect of reciprocation usage of Nickel-Titanium rotary files on the cyclic fatigue resistance	WooCheol Lee, You-Jeong Hwang, Sung-Yeop You, Hyeon-Cheol Kim	Australian Endodontic Journal	2013	39(3)	146-150
33	Single file reciprocating technique using conventional nickel-titanium rotary endodontic files	So-Youn Jin, WooCheol Lee, Mo K Kang, Bock Hur, Hyeon-Cheol Kim	Scanning	2013	35(6)	349-354

34	Effect of 1,440-nm Nd:YAG Laser Irradiation on Pain and Neuropeptide Reduction: A Randomized Prospective Clinical Trial	Yeon-Jee Yoo, Won-Jun Shon, Seung-Ho Baek, Mo K Kang, Hyeon-Cheol Kim, WooCheol Lee	Journal of Endodontics	2014	40(1)	28-32
35	Apical enlargement according to different pecking times at working length using reciprocating files	Hyo-Jin Jeon, Avina Paranjpe, Jung-Hong Ha, Euseong Kim, WooCheol Lee, Hyeon-Cheol Kim	Journal of Endodontics	2014	40(2)	281-284
36	Clinical efficiency and reusability of the reciprocating nickel-titanium instruments according to the root canal anatomy	Sung-Kyung Park, Young-Jae Kim, Won-Jun Shon, Sung-Yeop You, Young-Mi Moon, Hyeon-Cheol Kim, WooCheol Lee	Scanning	2014	36(2)	246-251
37	Safety of the factory pre-set rotation angle of reciprocating instruments	Jin-Woon Kim, Jung-Hong Ha, Gary SP Cheung, Antheunis Versluis, Sang-Won Kwak, Hyeon-Cheol Kim	Journal of Endodontics	2014	40(10)	1671-1675

38	Torsional and cyclic fatigue resistances of glide path preparation instruments: G-file and PathFile	Sang Yup Sung, Jung-Hong Ha, Sang-Won Kwak, Rashid El Abed, Kyeongmin Byeon, Hyeon-Cheol Kim	Scanning	2014	36(5)	500-506
39	Buckling resistance, bending stiffness, and torsional resistance of various instruments for canal exploration and glide path preparation	Sang-Won Kwak, Jung-Hong Ha, WooCheol Lee, Sung Kyo Kim, Hyeon-Cheol Kim	Restorative Dentistry & Endodontics	2014	39(4)	270-275
40	Cutting efficiency of apical preparation using ultrasonic tips with micro-projections: Confocal laser scanning microscopy study	Sang-Won Kwak, Young-Mi Moon, Yeon-Jee Yoo, Seung-Ho Baek, WooCheol Lee, Hyeon-Cheol Kim	Restorative Dentistry & Endodontics	2014	39(4)	276-281
41	A Randomized Controlled Study of the Use of ProRoot Mineral Trioxide Aggregate and Endocem as Direct Pulp Capping Materials	Minju Song, Minji Kang, Hyeon-Cheol Kim, Euseong Kim	Journal of Endodontics	2015	41(1)	11-15
42	Fitness of gutta-percha cones in curved root canals prepared with reciprocating files correlated with tug-back sensation	Heeyoung Yoon, Seung-Ho Baek, Kee-Yeun Kum, Hyeon-Cheol Kim, Young-Mi Moon, Denny Y Fang, WooCheol Lee	Journal of Endodontics	2015	41(1)	102-105

43	Effect from surface treatment of nickel-titanium rotary files on the fracture resistance	Bo Hoon Kim, Jung-Hong Ha, WooCheol Lee, Sang-Won Kwak, Hyeon-Cheol Kim	Scanning	2015	37(1)	82-87
44	Outcome of nonsurgical retreatment and endodontic microsurgery: a meta-analysis	Minji Kang, Hoi In Jung, Minju Song, Sue Youn Kim, Hyeon-Cheol Kim, Euseong Kim	Clin Oral Investig	2015	19(3)	569-582
45	Elastic limits in torsion of reciprocating nickel-titanium instruments	Jung-Hong Ha, Seo-Ryeong Kim, Antheunis Versluis, Gary Cheung, Jin-Woon Kim, Hyeon-Cheol Kim	Journal of Endodontics	2015	41(5)	715-719
46	Effect of repetitive pecking at working length for glide path preparation using G-file	JUNG-HONG HA, HYO-JIN JEON, RASHID EL ABED, SEOK-WOO CHANG, SUNG KYO KIM, HYEON-CHEOL KIM	Restorative Dentistry & Endodontics	2015	40(2)	123-127
47	Effect of Alloy Type on the Life-Time of Torsion-Preloaded Nickel-Titanium Endodontic Instruments	Jung-Hong Ha, Sung Kyo Kim, Gary Shun-Pan Cheung, Seong Hwa	Scanning	2015	37(3)	172-178

		Jeong, Yong Chul Bae, Hyeon-Cheol Kim				
48	Geometric optimization for a development of glide path preparation NiTi rotary instrument	Jung-Hong Ha, Chan-Joo Lee, Sang-Won Kwak, Rashid El Abed, Dongseok Ha, Hyeon-Cheol Kim	Journal of Endodontics	2015	41(5)	916-919
49	'Screw-in' tendency of rotary nickel-titanium files due to design geometry	Jung-Hong Ha, Gary SP Cheung, Antheunis Versluis, Chan-Joo Lee, Sang-Won Kwak, Hyeon-Cheol Kim	Int Endo J	2015	48(7)	666-672
50	Comparison of Bacterial Leakage Resistance of Various Root Canal Filling Materials and Methods: Confocal Laser-Scanning Microscope Study	Ji Hee Hwang, Jin Chung, Hee-Sam Na, Eunjoo Park, Sangwon Kwak, Hyeon-Cheol Kim	Scanning	2015	37(6)	422-428
51	Effects from the pitch length and heat treatment on the mechanical properties of the glide path preparation instruments	Sang Won Kwak, Jung-Hong Ha, Chan-Joo Lee, Rashid El Abed, Ibrahim H. Abu-Tahun, Hyeon-Cheol Kim	Journal of Endodontics	2016	42(5)	788-792

52	Debris extrusion by glide path establishing instruments with different geometries	Jung-Hong Ha, Sung Kyo Kim, Sangwon Kwak, Rashid El Abed, Yong Chul Bae, Hyeon-Cheol Kim	Journal of Dental Sciences	2016	11(2)	136-140
53	Kinematic effects of nickel-titanium instruments with reciprocating or continuous rotation motion: A systematic review of in vitro studies	So-Yeon Ahn, Hyeon-Cheol Kim, Euseong Kim	Journal of Endodontics	2016	42(7)	1009-1017
54	Preference of undergraduate students after first experience on nickel-titanium endodontic instruments	Sang Won Kwak, Gary Cheung, Jung-Hong Ha, Sung Kyo Kim, Hyojin Lee, Hyeon-Cheol Kim	Restorative Dentistry & Endodontics	2016	41(3)	176-181
55	Scanning electron microscopic examination of resected root apices obtained from endodontic microsurgery	Sumi Kang, Hyeon-Cheol Kim, Chan-Young Lee, Il-Young Jung, Euseong Kim	Scanning	2016	38(5)	455-461
56	Screw-in forces during instrumentation by various file systems	Jung-Hong Ha, Sang Won Kwak, Hyeon-Cheol Kim	Restorative Dentistry & Endodontics	2016	41(5)	304-309
57	Revolutionary development of endodontic instruments and its implications	Hyeon-Cheol Kim	Endodontology	2016	28(2)	90-91

58	The effects of torsional preloading on the torsional resistance of nickel-titanium instruments	Seung-Hei Oh, Jung-Hong Ha, Sang Won Kwak, WooCheol Lee, Hyeon-Cheol Kim	Journal of Endodontics	2017	43(1)	157-162
59	Physicochemical properties of epoxy resin-based and bioceramic-based root canal sealers	Ju Kyung Lee, Sang Won Kwak, Jung-Hong Ha, Woo-Cheol Lee, Hyeon-Cheol Kim	Bioinorganic Chemistry and Applications	2017		1-8
60	Effect from rotational speed on torsional resistance of the nickel-titanium instruments	Jung-Hong Ha, Sang Won Kwak, Sung Kyo Kim, Asgeir Sigurdsson, Hyeon-Cheol Kim	Journal of Endodontics	2017	43(3)	443-446
61	The geometric effect of an off-centred cross-section on nickel-titanium rotary instruments: A finite element analysis study	Jung-Hong Ha, Sang Won Kwak, Chan-Joo Lee, Se-Hee Park, Antheunis Versluis, Hyeon-Cheol Kim	Journal of Dental Sciences	2017	12(2)	173-178
62	Vibrations generated by several nickel-titanium endodontic file systems during canal shaping in an ex vivo model	Dong-Min Choi, Jin-Woo Kim, Se-Hee Park, Kyung-Mo Cho, Sang Won Kwak, Hyeon-Cheol Kim	Journal of Endodontics	2017	43(7)	1197-1200

63	Anatomical Relationship of Maxillary Posterior Teeth with the Sinus and Buccal Cortex	Ju-Kyong Jang, Sang Won Kwak, Jung-Hong Ha, Hyeon-Cheol Kim	Journal of Oral Rehabilitation	2017	44(8)	617-625
64	Effect of surface treated alloy on the mechanical properties of similar cross-sectioned Nickel-Titanium files	Sang Won Kwak, Joo Yeong Lee, Hye-Jin Goo, Hyeon-Cheol Kim	Restorative Dentistry & Endodontics	2017	42(3)	216-223
65	Stress generation during pecking motion of rotary nickel-titanium instruments with different pecking depth	Jung-Hong Ha, Sang Won Kwak, Asgeir Sigurdsson, Seok Woo Chang, Sung Kyo Kim, Hyeon-Cheol Kim	Journal of Endodontics	2017	43(10)	1688-1691
66	Mechanical properties of various heat-treated Nickel-Titanium rotary instruments	Hye-Jin Goo, Sang Won Kwak, Jung-Hong Ha, Eugenio Pedullà, Hyeon-Cheol Kim	Journal of Endodontics	2017	43(11)	1872-1877
67	Comparison of Apical Extrusion of Intracanal Bacteria by Multi-File and Single-File Rotary Glide-path Establishing Systems: an in-vitro study	Alberto Dagna, Rashid El Abed, Sameeha Hussain, Ibrahim H Abu-Tahun, Livia Visai, Federico Bertoglio, Floriana Bosco, Riccardo Beltrami, Claudio	Restorative Dentistry & Endodontics	2017	42(4)	316-323

		Poggio, Hyeon-Cheol Kim				
68	Microscopic features of fractured fragment of nickel-titanium endodontic instruments by two different modes of torsional loading	Ibrahim H. Abu-Tahun, Jung-Hong Ha,Sang Won Kwak, Hyeon-Cheol Kim	Scanning	2018	9467059	1-5
69	Effect of the glide-path establishment on the torque generation to the files during instrumentation: in-vitro measurement	Sang Won Kwak, Jung- Hong Ha, Gary Shun- Pan Cheung, Hyeon- Cheol Kim, Sung Kyo Kim	Journal of Endodontics	2018	44(3)	496-500
70	Relationship between Root Apices and the Mandibular Canal: A Cone-beam Computed Tomographic Comparison of Three Populations	Alex Lvovsky, Shir Bachrach, Hyeon-Cheol Kim, Ajinkya Pawar, Oleg Levinzon, Joe Ben Itzhak, Michael Solomonov	Journal of Endodontics	2018	44(4)	555-558
71	Comparison of Gap Volume after Retro-filling Using 4 Different Filling Materials:	Sue Youn Kim, Hyeon- Cheol Kim, Su-Jung Shin, Euseong Kim	Journal of Endodontics	2018	44(4)	555-559

	Evaluation by Micro-computed Tomography					
72	Mechanical properties of glide-path preparation instruments with different pitch lengths	Dana Al Raeesi, Sang Won Kwak, Jung-Hong Ha, Rashid El Abed, Hyeon-Cheol Kim	Journal of Endodontics	2018	44(5)	864–868
73	Torsional behavior of WaveOne Gold endodontic file with the dedicated motor of the original WaveOne file	Jung-Hong Ha, Asgeir Sigurdsson, Gustavo De-Deus, Antheunis Versluis, Sang Won Kwak, Hyeon-Cheol Kim	Materials	2018	11(7)	1150
74	An Evaluation of Wetting and Adhesion of Three Bioceramic Root Canal Sealers to Intraradicular Human Dentin	Jung-Hong Ha, Hyeon-Cheol Kim, Young Kyung Kim, Tae-Yub Kwon	Materials	2018	11(8)	1286
75	Evaluation of dynamic and static torsional resistances of nickel-titanium rotary instruments	Ibrahim H. Abu-Tahun, Jung-Hong Ha, Sang Won Kwak, Hyeon-Cheol Kim	Journal of Dental Sciences	2018	13(3)	207-212
76	How biomechanics can affect the endodontic treated teeth and their restorative procedures?	Carlos José SOARES, Monise de Paula RODRIGUES, André Luis FARIA-E-SILVA,	Brazilian Oral Research	2018	32	e76

		Paulo Cesar Freitas SANTOS-FILHO, Crisnicaw VERÍSSIMO, Hyeon-Cheol KIM, Antheunis VERSLUIS				
77	Influence of different angles of file access on cyclic fatigue resistance of Reciproc and Reciproc blue instruments	Eugenio Pedullà, Giusy R La Rosa, Simona Boninelli, Oriana G Rinaldi, Ernesto Rapisarda, Hyeon-Cheol Kim	Journal of Endodontics	2018	44(12)	1849–1855
78	Mechanical properties of orifice-preflaring nickel-titanium rotary instrument heat-treated using T-wire technology	Maamoun Ataya, Jung-Hong Ha, Sang Won Kwak, Ibrahim H Abu-Tahun, Rashid El Abed, Hyeon-Cheol Kim	Journal of Endodontics	2018	44(12)	1867–1871
79	Safe elastic limit range under torsional loading with Reciproc Blue	Jung-Hong Ha, Gustavo De-Deus, Antheunis Versluis, Sang Won Kwak, Hyeon-Cheol Kim	International Endodontic Journal	2019	52(2)	244–249
80	Mechanical properties of various glide-path preparation nickel-titanium rotary instruments	Joo-Yeong Lee, Sang Won Kwak, Jung-Hong Ha, Ibrahim H Abu-	Journal of Endodontics	2019	45(2)	199-204

		Tahun, Hyeon-Cheol Kim				
81	Effective establishment of glide-path to reduce torsional stress during nickel-titanium rotary instrumentation	Ibrahim H. Abu-Tahun, Sang Won Kwak, Jung-Hong Ha, Asgeir Sigurdsson, Kayahan, Mehmet, Hyeon-Cheol Kim	Materials	2019	12(3)	493
82	Ten top-cited articles on management of fractured instruments: bibliometric analysis	Lora Mishra, Hyeon-Cheol Kim, Naomi Ranjan Singh, Priti Pragati Rath	Restorative Dentistry & Endodontics	2019	44(1)	1-6
83	Stress analyses of retrograde cavity preparation designs for surgical endodontics in the mesial root of the mandibular molar: a finite element analysis-Part I	Sunil Kim, So-Young Park, Yoon Lee, Chan-Joo Lee, Bekir Karabucak, Hyeon-Cheol Kim, Euseong Kim	Journal of Endodontics	2019	45(4)	442-446
84	Screw-in forces generated during movement of endodontic files with different geometries, alloys, and kinetics	Sang Won Kwak, Chan-Joo Lee, Sung Kyo Kim, Hyeon-Cheol Kim, Jung-Hong Ha	Materials	2019	12(9)	1506

85	Comparison of in vitro torque generation during instrumentation with adaptive versus continuous movement	Sang Won Kwak, Jung-Hong Ha, Gary Shun-Pan Cheung, Sung Kyo Kim, Hyeon-Cheol Kim	Journal of Endodontics	2019	45(6)	803-807
86	Effect of Truss Access and Artificial Truss Restoration on the Fracture Resistance of Endodontically Treated Mandibular First Molars	Mahmoud Y Abou-Elnaga, Moataz-Bellah Ahmed, Mohamed Alkhawas, Hyeon-Cheol Kim, Ashraf S Refai	Journal of Endodontics	2019	45(6)	813-817
87	Clinical and microbiologic investigation of an expedited peri-implantitis dog model: an animal study	Wook Jin Seong, Georgios Kotsakis, Jong-Ki Huh, Soo Cheol Jeong, Ki Young Nam, Jong Ryul Kim, Young Cheul Heo, Hyeon-Cheol Kim, Lei Zhang, Michael D. Evans, Heather Conrad, Robert J. Schumacher	BMC-OH	2019	19(150)	1-11
88	In vitro Comparison of Biocompatibility of Calcium Silicate-Based Root Canal Sealers	Ju Kyung Lee, Sunil Kim, Sukjoon Lee, Hyeon-Cheol Kim, Euseong Kim	Materials	2019	12(15)	1-12

89	Dentinal defects induced by 6 different endodontic files when used for oval root canals: an in vitro comparative study	Ajinkya M Pawar, Bhagyashree Thakur, Anda Kfir, Hyeon-Cheol Kim	Restorative Dentistry & Endodontics	2019	44(3)	1-9
90	Can the Separated Instrument be Removed From the Root Canal System out by Magnetism? A Hypothesis	Mohammad Daryaeian, Sanjay Miglani, Abdol Mahmood Davarpanah, Hyeon-Cheol Kim, Mohsen Ramazani	Dental Hypotheses	2019	10(4)	108-111
91	Efficacy and retrievability of root canal filling using calcium silicate-based and epoxy resin-based root canal sealers with matched obturation techniques	Seo Ryeong Kim, Sang Won Kwak, Ju-Kyung Lee, Hye-Jin Goo, Jung-Hong Ha, Hyeon-Cheol Kim	Australian Endodontic Journal	2019	45(3)	337-345
92	Treatment of peri-invagination lesion and vitality preservation in an immature type III dens invaginatus of mandibular incisor: a case report	Ju-Kyung Lee, Jae Joon Hwang, Euseong Kim, DDS, Hyeon-Cheol Kim	BMC Oral Health	2020	20(29)	1-6
93	Effect of shaft length on the torsional resistance of rotary nickel–titanium instruments	Vasfiye Isik, Sang Won Kwak, Ibrahim AbuTahun, Jung-Hing Ha, Mehmet Baybora	Journal of Endodontics	2020	46(2)	295-300

		Kayahan, Hyeon-Cheol Kim				
94	Cyclic fatigue resistance of nickel-titanium rotary instruments according to the angle of file access and radius of root canal	Eugenio Pedullà, Giusy Rita Maria La Rosa, Chiara Virgillito, Ernesto Rapisarda, Hyeon-Cheol Kim, Luigi Generali	Journal of Endodontics	2020	46(3)	431-436
95	Stress Analyses of Retrograde Cavity Preparation Designs for Surgical Endodontics in the Mesial Root of the Mandibular Molar: A Finite Element Analysis—Part II	Sunil Kim, Dongzi Chen, So-Young Park, Chan-Joo Lee, Hyeon-Cheol Kim, Euseong Kim	Journal of Endodontics	2020	46(4)	539-544
96	Ex-vivo comparison of torsional stress on nickel-titanium instruments activated by continuous rotation or adaptive motion	Joo-Yeong Lee, Sang Won Kwak, Jung-Hong Ha, Hyeon-Cheol Kim	materials	2020	13(8)	1-10
97	Age-dependent root canal instrumentation techniques: A comprehensive narrative review	Michael Solomonov, Hyeon-Cheol Kim, Avi Hadad, Dan Henry Levy, Joe Ben Itzhak, Oleg Levinson, Hadas Azizi	Restorative Dentistry & Endodontics	2020	45(2)	1-12

98	Buckling resistance of various NiTi glide-path preparation instruments in dynamic or static mode	Jung-Hong Ha, Sang Won Kwak, Antheunis Versluis, Hyeon-Cheol Kim	Journal of Endodontics	2020	46(8)	1125–1129
99	When to install endodontic post: First-visit with canal filling vs separate second-visit for post-restoration? A Randomized Controlled Trial	TAN FIRAT EYUBOGLU, Hyeon-Cheol Kim	Journal of Oral Rehabilitation	2020	47(10)	1247–1253
100	The Effect of Access Cavity Designs and Sizes of Root Canal Preparations on the Biomechanical Behavior of an Endodontically Treated Mandibular First Molar: A Finite Element Analysis	Shehabeldin Mohamed Saber, Dennis Mohamed Hayaty, Nawar Naguib Nawar. Hyeon-Cheol Kim	Journal of Endodontics	2020	46(11)	1675-1681
101	Advancement of mechanical properties of nickel-titanium rotary endodontic instruments by spring machining on the file shaft	Sangmi Ahn, Sang Won Kwak, Jung-Hong Ha, Hyeon-Cheol Kim	materials	2020	13(22)	1-8
102	Bending stiffness and cyclic fatigue resistance of WaveOne Gold, Reciproc Blue, and HyFlex EDM instruments	Soram Oh, Kee-Yeon Kum, Hyun-Jung Kim, Su-Young Moon, Hyeon-Cheol Kim, Antonis Chaniotis, Hiran Perinpanayagam,	Journal of Dental Sciences	2020	15(4)	472-478

		Eugenio Pedullá, Seok Woo Chang				
103	Torsional resistance of WaveOne Gold and Reciproc Blue according to the loading methods	Sang Won Kwak, Ibrahim H Abu-Tahun, Jung-Hong Ha, Hyeon-Cheol Kim	Journal of Endodontics	2021	47(1)	88-93
104	Numerical evaluation of innovate spring machined nickel-titanium rotary instruments: a 3-dimensional finite-element study	Na Yoon Kim, Sang Won Kwak, Tae Ho Yoon, Jung-Hong Ha, Antheunis Versluis, Hyeon-Cheol Kim	Journal of Endodontics	2021	47(2)	303-308
105	Efficacy of reciprocating and rotary retreatment nickel-titanium file systems for removing filling materials with complementary cleaning method in oval shaped canals	Said Dhaimy, Hyeon-Cheol Kim, Lamyae Bedida, Imane Benkiran	Restorative Dentistry & Endodontics	2021	46(1)	1-9
106	An In-Vivo Cone-Beam Computed Tomography Analysis of Root and Canal Morphology of Maxillary First Permanent Molars in an Indian Population	Ajinkya Pawar, Bhagyashree Thakur, Ricardo Machado, Sang	Indian Journal of Dental Research	2021	32(1)	104-109

		Won Kwak, Hyeon-Cheol Kim				
107	Impact of Canal Taper and Access Cavity Design on the Life Span of an Endodontically Treated Mandibular Molar: A Finite Element Analysis	Mostafa M.A. Elkholy, Nawar Naguib Nawar, William Nguyen Ha, Shehabeldin Mohamed Saber, Hyeon-Cheol Kim	Journal of Endodontics	2021	47(9)	1472-1480
108	Effects of root canal curvature and mechanical properties of nickel–titanium files on torque generation	Sang Won Kwak, Jung-Hong Ha, Ya Shen, Markus Haapasalo, Hyeon-Cheol Kim	Journal of Endodontics	2021	47(9)	1501-1506
109	Torsional Resistance of Heat-Treated Nickel-Titanium Instruments under Different Temperature Conditions	Hyojin Jo, Sang Won Kwak, Hyeon-Cheol Kim, Sung Kyo Kim, Jung-Hong Ha	materials	2021	14(18)	5295
110	Heat treatment and surface treatment of nickel-titanium endodontic instruments	Sang Won Kwak, Ya Shen, He Liu, Zhejun Wang, Hyeon-Cheol Kim, Markus Haapasalo	Frontiers in Dental Medicine	2021	2(769977)	1-6

111	Physicochemical properties and biocompatibility of the newly developed calcium silicate-based sealers	Min-Gyu Park, In-Ryoung Kim, Sang Won Kwak, Hyeon-Cheol Kim	Australian Endodontic Journal	2021	47(3)	512-519
112	Torque Generation of the Endodontic Instruments: A Narrative Review	Sang Won Kwak, Ya Shen, He Liu, Hyeon-Cheol Kim, Markus Haapasalo	materials	2022	15(2)	1-10
113	Effect of sodium hypochlorite concentration on electronic apex locator reliability	Franck Diemer, Emma Plews, Marie Georgelin-Gurgel, Hyeon-Cheol Kim, Lora Mishra	materials	2022	15(3)	1-8
114	Shape and anatomical relationship of the mental foramen to mandibular premolars in an Indian sub-population: A retrospective CBCT analysis	Komal Sheth, Kulvinder Singh Banga, Ajinkya M Pawar, James L Gutmann, Hyeon-Cheol Kim	Restorative Dentistry & Endodontics	2022	47(1)	1-13

Searching expert in a specific field of medical sciences

<https://expertscape.com/>

The screenshot shows the Expertscape website interface. At the top, there is a navigation bar with links for 'About Us', 'Guide', 'Blog', 'Popular topics', 'Products & Services', 'Saved pages', and 'Covid'. Below the navigation bar is the Expertscape logo, which consists of a red cross with blue waves underneath, followed by the word 'expertscape' in a blue sans-serif font. Below the logo, the text reads: 'Find the world's top experts. For any medical problem. Fast. Easy. Free. Objective.' To the right of the logo is a promotional banner for the 'myCME App', which is available on the App Store and Google Play. Below the logo and text is a search bar with the text 'Search 29,000 topics' on the left, a text input field containing 'Endodontics', and a 'Go' button. Below the search bar is a section titled 'Some popular topics' followed by a grid of 15 medical topics: Addison disease, AIDS, Alzheimer disease, Arthritis, Cancer, Celiac disease, Chronic fatigue syndrome, Crohn disease, Endometriosis, Eye disease, Fibromyalgia, Heart disease, Infertility, Irritable bowel syndrome, Joint replacement, and Migraine headache. To the right of this grid is a list of 7 more topics: Multiple sclerosis, Obstructive sleep apnea, Osteoporosis, Parkinson disease, Psoriasis, Respiratory disease, and Whipple procedure. At the bottom right of the grid, there is a link that says 'See list of more than 400 popular topics'. At the bottom left of the page, there is a small grey box containing the text 'javascript:clicked_experts(this)'. The browser's address bar shows 'expertscape.com' and the page title is 'Expertscape - Objective Rankin...'.

in the field of endodontics

Browser tabs: "Endodontics" Overview - Exp... x +

Address bar: expertscape.com/qq?query=Endodontics

Navigation: Pick Topic | Review Topic | List Experts | Examine Expert | Save Expert

"Endodontics"

"Endodontics" is not a recognized topic-name.
Did you mean one of the partially-matching topics below?

One-Word Matches:

- Endodontics**
- [Regenerative Endodontics](#)
- [Endodontics](#)

Or:

- Browse a list of common topics,
- Type a different topic in the search box above, or
- Read the FAQ about available topics.

Copyright (C) 2000-2021 by Expertscape Inc...
Expertscape does not provide medical advice or diagnosis.

Manifesto · Terms of Use · Privacy · Products & Services · Contact Us

<https://expertscape.com/go/endodontics>

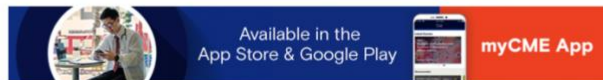
in the field of endodontics

Expertise in Endodontics: Worldwide

HELP

Based on 8,719 eligible articles published since 2010

In each column, black bars show the relative amount of expertise for each place or person. Longer is better. For example, G De-Deus equates to the top-rated expert in Endodontics in the world during the years 2010-2021.



Country

Includes US states, etc.

- Worldwide
- Europe
- Asia
- USA
- Latin America
- Brazil
- Unspecified
- United Kingdom
- Turkey
- China
- Italy
- India
- Germany
- Iran
- Australia
- Spain
- Canada
- Malaysia
- Japan
- Korea
- Switzerland
- Saudi Arabia
- Sweden
- France
- Ireland
- Africa
- Denmark
- Greece
- Netherlands

Region

Includes US states, etc.

- US Eastern Zone
- US Central Zone
- England
- US Pacific Zone
- California
- Texas
- US Mid-Atlantic
- Wales
- New York
- Ontario
- North Carolina
- Minnesota
- West Midlands
- Pennsylvania
- Beijing Municipality
- Maryland
- US Mountain Zone
- Florida
- Ohio
- New England
- Oregon
- Guangdong Province
- Hong Kong Special Administrative Region
- Georgia
- Sichuan Province
- Hubei Province
- Michigan
- Tamil Nadu
- Chennai Province

City

Includes metro areas

- Sao Paulo
- Rio de Janeiro
- Miscellaneous cities in Brazil
- Miscellaneous cities in India
- Cardiff
- London, EN
- Ribeirao Preto
- San Antonio
- Miscellaneous cities in Iran
- Tehran
- New York area
- Porto Alegre
- Kuala Lumpur
- Campinas
- Toronto
- Milan area
- New York City
- Milan
- Ankara
- Seoul
- Seoul area
- Los Angeles area
- Rome, IT
- Research Triangle
- Miscellaneous cities in Turkey
- Dublin
- Istanbul
- Brisbane
- Los Angeles
- San Francisco Bay area

Institution

- University of Sao Paulo
- Miscellaneous institutions in Rio de Janeiro
- Cardiff University
- University of Sao Paulo Ribeirao Preto
- University of Texas Health Science Center San Antonio
- University of London
- University of Toronto
- Universidade Estadual Paulista
- Miscellaneous institutions in Kuala Lumpur
- Universidade Federal do Rio de Janeiro
- Universidade Federal de Rio Grande do Sul
- University of North Carolina Chapel Hill
- Trinity College Dublin
- University College Dublin
- King's College London
- Universidade Estadual de Campinas
- Texas A and M University
- UCLA
- University of Queensland
- University of the Pacific
- University of Minnesota
- Universidade Federal Fluminense
- University of Texas San Antonio
- Miscellaneous institutions in Sao Paulo
- University of Zurich
- Copenhagen University Hospital
- University of Copenhagen
- University of Sao Paulo Bauru
- University of Milan Statale
- Goteborg University

Expert

- De-Deus, G
- Siqueira, J F
- Silva, E J N L
- Plotino, G
- Arslan, H
- Peters, O
- Rôças, I N
- Rossi-Fedele, G
- Abbott, P
- Shemesh, H
- Shen, Y
- Kishen, A
- Grande, N M
- Ricucci, D
- Krasti, G
- Duarte, M A H
- Taschieri, S
- Versiani, M A
- Hülsmann, M
- Fouad, A F
- Kim, Hyeon-Cheol
- Duncan, H F
- Schäfer, E
- Belladonna, F G
- Segura-Egea, J J
- Aminoshariae, A
- Cooper, P
- Del Fabbro, M
- van der Sluis, L
- Galler, K

https://expertscape.com/au/endodontics/Kim%2C+Hyeon-Cheol

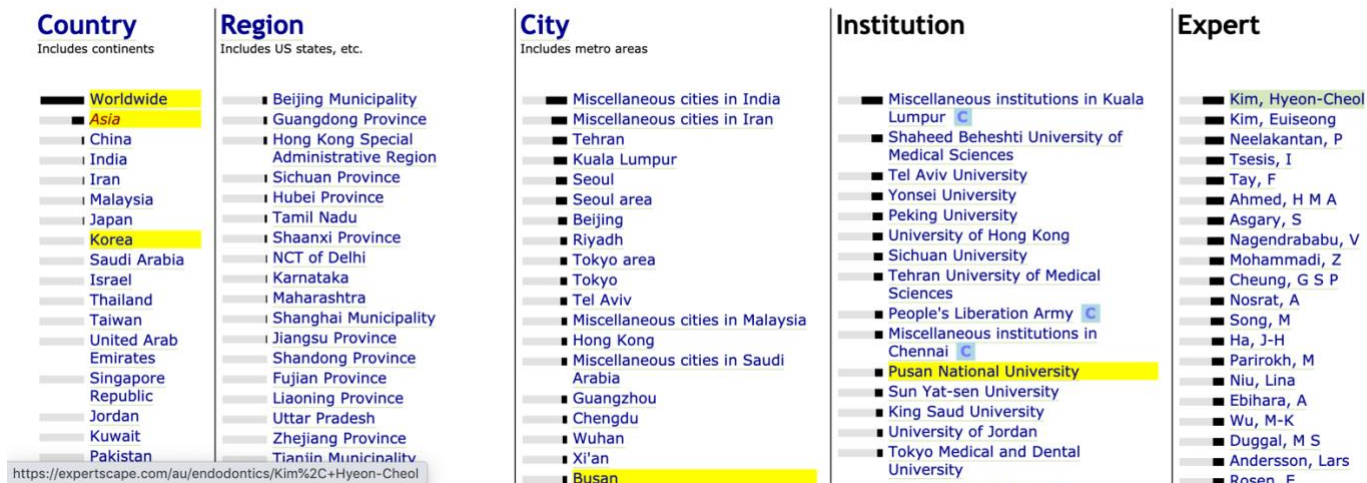
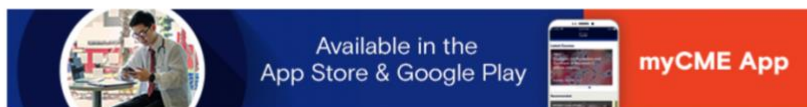
21st ranked in the field of Endodontics

@ Asia

Based on 2,599 eligible articles published since 2010



In each column, black bars show the relative amount of expertise for each place or person. Longer is better. For example, Hyeon-Cheol Kim equates to the top-rated expert in Endodontics in Asia during the years 2010-2021.



The top 1st ranker in Asian Scholars

Expertise in Endodontics: Hyeon-Cheol Kim

HELP

Based on 57 eligible articles published since 2010
What is "eligible"?



EXPERTISE LEVEL The expertise of Hyeon-Cheol Kim ranks in the ...

- **Top 0.092%**
- ... of 19,634 published authors worldwide on [Endodontics](#)
- ... from 2010 through 2021
- ... based on contributions to [57 articles](#) on the topic.

[Graphical view](#) (beta)



Are you Hyeon-Cheol Kim?

About your page.

Get your prestigious World Expert badge similar to this:

WORK LOCATIONS Most likely: [Pusan National University](#)