

Christos Boutsioukis

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,210
citations

236925

25
h-index

315739

38
g-index

42
all docs

42
docs citations

42
times ranked

1168
citing authors

#	ARTICLE	IF	CITATIONS
1	Irrigant flow within a prepared root canal using various flow rates: a Computational Fluid Dynamics study. <i>International Endodontic Journal</i> , 2009, 42, 144-155.	5.0	188
2	Evaluation of Irrigant Flow in the Root Canal Using Different Needle Types by an Unsteady Computational Fluid Dynamics Model. <i>Journal of Endodontics</i> , 2010, 36, 875-879.	3.1	167
3	PRILE 2021 guidelines for reporting laboratory studies in Endodontology: A consensus-based development. <i>International Endodontic Journal</i> , 2021, 54, 1482-1490.	5.0	153
4	The Effect of Needle-insertion Depth on the Irrigant Flow in the Root Canal: Evaluation Using an Unsteady Computational Fluid Dynamics Model. <i>Journal of Endodontics</i> , 2010, 36, 1664-1668.	3.1	141
5	Measurement of pressure and flow rates during irrigation of a root canal ex vivo with three endodontic needles. <i>International Endodontic Journal</i> , 2007, 40, 504-513.	5.0	127
6	The effect of apical preparation size on irrigant flow in root canals evaluated using an unsteady Computational Fluid Dynamics model. <i>International Endodontic Journal</i> , 2010, 43, 874-881.	5.0	124
7	Removal efficacy of various calcium hydroxide/chlorhexidine medicaments from the root canal. <i>International Endodontic Journal</i> , 2006, 39, 55-61.	5.0	110
8	Ex Vivo Study of the Efficiency of Two Techniques for the Removal of Mineral Trioxide Aggregate Used as a Root Canal Filling Material. <i>Journal of Endodontics</i> , 2008, 34, 1239-1242.	3.1	110
9	The effect of root canal taper on the irrigant flow: evaluation using an unsteady Computational Fluid Dynamics model. <i>International Endodontic Journal</i> , 2010, 43, 909-916.	5.0	104
10	Ultrasonic Irrigant Activation during Root Canal Treatment: A Systematic Review. <i>Journal of Endodontics</i> , 2019, 45, 31-44.e13.	3.1	91
11	Factors affecting irrigant extrusion during root canal irrigation: a systematic review. <i>International Endodontic Journal</i> , 2013, 46, 599-618.	5.0	73
12	Present status and future directions of irrigants and irrigation methods. <i>International Endodontic Journal</i> , 2022, 55, 588-612.	5.0	72
13	Effect of Needle Insertion Depth and Root Canal Curvature on Irrigant Extrusion Ex Vivo. <i>Journal of Endodontics</i> , 2013, 39, 521-524.	3.1	70
14	Measurement and visualization of file-to-wall contact during ultrasonically activated irrigation in simulated canals. <i>International Endodontic Journal</i> , 2013, 46, 1046-1055.	5.0	58
15	Irrigant flow in the root canal: experimental validation of an unsteady Computational Fluid Dynamics model using high-speed imaging. <i>International Endodontic Journal</i> , 2010, 43, 393-403.	5.0	56
16	Formation and removal of apical vapor lock during syringe irrigation: a combined experimental and Computational Fluid Dynamics approach. <i>International Endodontic Journal</i> , 2014, 47, 191-201.	5.0	53
17	The effect of flow rate and agitation technique on irrigant extrusion ex vivo. <i>International Endodontic Journal</i> , 2014, 47, 487-496.	5.0	52
18	A new method for real-time quantification of irrigant extrusion during root canal irrigation ex vivo. <i>International Endodontic Journal</i> , 2013, 46, 619-631.	5.0	47

#	ARTICLE	IF	CITATIONS
19	Porosity distribution in root canals filled with gutta percha and calcium silicate cement. <i>Dental Materials</i> , 2015, 31, 1100-1108.	3.5	43
20	Role of the confinement of a root canal on jet impingement during endodontic irrigation. <i>Experiments in Fluids</i> , 2012, 53, 1841-1853.	2.4	37
21	Acoustic streaming induced by an ultrasonically oscillating endodontic file. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 1717-1730.	1.1	37
22	Uncontrolled Removal of Dentin during In Vitro Ultrasonic Irrigant Activation. <i>Journal of Endodontics</i> , 2016, 42, 289-293.	3.1	29
23	Ex vivo metric analysis of root canal obturation using gutta-percha cones of different taper. <i>International Endodontic Journal</i> , 2009, 42, 491-498.	5.0	28
24	A critical analysis of research methods and experimental models to study irrigants and irrigation systems. <i>International Endodontic Journal</i> , 2022, 55, 295-329.	5.0	28
25	Clinical relevance of standardization of endodontic irrigation needle dimensions according to the ISO 9626:1991 and 9626:1991/Amd 1:2001 specification. <i>International Endodontic Journal</i> , 2007, 40, 700-706.	5.0	27
26	Apical negative pressure irrigation versus syringe irrigation: a systematic review of cleaning and disinfection of the root canal system. <i>International Endodontic Journal</i> , 2017, 50, 1034-1054.	5.0	26
27	Uncontrolled Removal of Dentin during In Vitro Ultrasonic Irrigant Activation in Curved Root Canals. <i>Journal of Endodontics</i> , 2016, 42, 1545-1549.	3.1	25
28	Syringe Irrigation in Minimally Shaped Root Canals Using 3 Endodontic Needles: A Computational Fluid Dynamics Study. <i>Journal of Endodontics</i> , 2021, 47, 1487-1495.	3.1	24
29	Biofilm removal from a simulated isthmus and lateral canal during syringe irrigation at various flow rates: a combined experimental and Computational Fluid Dynamics approach. <i>International Endodontic Journal</i> , 2021, 54, 427-438.	5.0	23
30	Syringe Irrigation: Blending Endodontics and Fluid Dynamics. , 2015, , 45-64.		13
31	Observer variation in the assessment of root canal curvature. <i>International Endodontic Journal</i> , 2017, 50, 167-176.	5.0	13
32	The Effect of the Ultrasonic Irrigant Activation Protocol on the Removal of a Dual-species Biofilm from Artificial Lateral Canals. <i>Journal of Endodontics</i> , 2022, 48, 775-780.	3.1	13
33	Subcutaneous emphysema in patients undergoing root canal treatment: a systematic review of the factors affecting its development and management. <i>International Endodontic Journal</i> , 2019, 52, 1586-1604.	5.0	11
34	Cleaning of used rotary nickel-titanium files in an ultrasonic bath by locally intensified acoustic cavitation. <i>International Endodontic Journal</i> , 2018, 51, 457-468.	5.0	8
35	Root Canal Irrigation. <i>Springer Series on Biofilms</i> , 2015, , 259-301.	0.1	8
36	Irrigant transport into dental microchannels. <i>Microfluidics and Nanofluidics</i> , 2013, 16, 1165.	2.2	7

#	ARTICLE	IF	CITATIONS
37	Internal Tooth Anatomy and Root Canal Irrigation. , 2019, , 303-321.		5
38	Methodological quality assessment criteria for the evaluation of laboratoryâ€based studies included in systematic reviews within the specialty of Endodontology: A development protocol. International Endodontic Journal, 2022, 55, 326-333.	5.0	3
39	Irrigant flow in the root canal during ultrasonic activation: A numerical fluidâ€structure interaction model and its validation. International Endodontic Journal, 2022, 55, 938-949.	5.0	3
40	Need for criteria to appraise the methodological quality of laboratoryâ€based studies included in systematic reviews within the speciality of Endodontology. International Endodontic Journal, 2022, 55, 278-281.	5.0	0