

Prasanna Neelakantan

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

3,762
citations

172207

29
h-index

155451

55
g-index

119
all docs

119
docs citations

119
times ranked

3027
citing authors

#	ARTICLE	IF	CITATIONS
1	A micro-computed tomographic analysis of obturation quality and retreatability of an epoxy resin-based sealer. <i>Minerva Dental and Oral Science</i> , 2022, 71, .	0.5	1
2	Fsr quorum sensing system modulates the temporal development of <i>Enterococcus faecalis</i> biofilm matrix. <i>Molecular Oral Microbiology</i> , 2022, 37, 22-30.	1.3	10
3	Biofilm modulatory response of arginine-fluoride varnish on multi-species biofilm. <i>Journal of Dentistry</i> , 2022, 122, 104096.	1.7	7
4	Small molecule based anti-virulence approaches against <i>Candida albicans</i> infections. <i>Critical Reviews in Microbiology</i> , 2022, 48, 743-769.	2.7	7
5	Present status and future directions: Minimally invasive root canal preparation and periradicular surgery. <i>International Endodontic Journal</i> , 2022, 55, 845-871.	2.3	12
6	Antibiofilm activity of phytochemicals against <i>Enterococcus faecalis</i> : A literature review. <i>Phytotherapy Research</i> , 2022, 36, 2824-2838.	2.8	10
7	Impact of agitation/activation strategies on the antibiofilm potential of sodium hypochlorite/etidronate mixture in vitro. <i>BMC Oral Health</i> , 2022, 22, .	0.8	3
8	Antimicrobial Effects of L-Chg10-Teixobactin against <i>Enterococcus faecalis</i> In Vitro. <i>Microorganisms</i> , 2022, 10, 1099.	1.6	3
9	Effect of N-2-methyl-pyrrolidone on <i>Enterococcus faecalis</i> biofilms. <i>Dental Materials Journal</i> , 2022, 41, 774-779.	0.8	1
10	Trans-Cinnamaldehyde Eluting Porous Silicon Microparticles Mitigate Cariogenic Biofilms. <i>Pharmaceutics</i> , 2022, 14, 1428.	2.0	4
11	Debris extrusion during root canal preparation with nickel-titanium instruments using liquid and gel formulations of sodium hypochlorite <i>in vitro</i> . <i>Australian Endodontic Journal</i> , 2021, 47, 130-136.	0.6	14
12	Facial protection in the era of COVID-19: A narrative review. <i>Oral Diseases</i> , 2021, 27, 665-673.	1.5	30
13	Combinatorial effects of <i>trans</i> -cinnamaldehyde with fluoride and chlorhexidine on <i>Streptococcus mutans</i> . <i>Journal of Applied Microbiology</i> , 2021, 130, 382-393.	1.4	24
14	The Influence of Surface Roughening and Polishing on Microbial Biofilm Development on Different Ceramic Materials. <i>Journal of Prosthodontics</i> , 2021, 30, 447-453.	1.7	15
15	Three-dimensional qualitative and quantitative analyses of the effect of periradicular lesions on the outcome of regenerative endodontic procedures: A prospective clinical study. <i>Clinical Oral Investigations</i> , 2021, 25, 691-700.	1.4	23
16	Do different cone beam computed tomography exposure protocols influence subjective image quality prior to and after root canal treatment?. <i>Clinical Oral Investigations</i> , 2021, 25, 2119-2127.	1.4	9
17	Root canal debridement by negative pressure irrigation, ultrasonically activated irrigation and their combination. <i>Journal of Oral Science</i> , 2021, 63, 286-288.	0.7	2
18	Biofilm inhibition in oral pathogens by nanodiamonds. <i>Biomaterials Science</i> , 2021, 9, 5127-5135.	2.6	7

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19	Baicalein Inhibits <i>Streptococcus mutans</i> Biofilms and Dental Caries-Related Virulence Phenotypes. <i>Antibiotics</i> , 2021, 10, 215.	1.5	20
20	Exploring the anti-caries properties of baicalin against <i>Streptococcus mutans</i> : an <i>in vitro</i> study. <i>Biofouling</i> , 2021, 37, 267-275.	0.8	10
21	A curcumin-sophorolipid nanocomplex inhibits <i>Candida albicans</i> filamentation and biofilm development. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 200, 111617.	2.5	29
22	Characterization, Antimicrobial Effects, and Cytocompatibility of a Root Canal Sealer Produced by Pozzolan Reaction between Calcium Hydroxide and Silica. <i>Materials</i> , 2021, 14, 2863.	1.3	7
23	Trans-Cinnamaldehyde Attenuates <i>Enterococcus faecalis</i> Virulence and Inhibits Biofilm Formation. <i>Antibiotics</i> , 2021, 10, 702.	1.5	18
24	Microbiological Aspects of Root Canal Infections and Disinfection Strategies: An Update Review on the Current Knowledge and Challenges. <i>Frontiers in Oral Health</i> , 2021, 2, 672887.	1.2	68
25	Influence of kinematics and incidence angles on the cutting efficiency of two single-file nickel-titanium rotary instruments. <i>Australian Endodontic Journal</i> , 2021, , .	0.6	2
26	A novel three-dimensionally printed model to assess biofilm removal by ultrasonically activated irrigation. <i>International Endodontic Journal</i> , 2021, 54, 1871-1877.	2.3	7
27	Cemental tear: Literature review, proposed classification and recommendations for treatment. <i>International Endodontic Journal</i> , 2021, 54, 2044-2073.	2.3	9
28	Development and functionalization of DNA nanostructures for biomedical applications. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 228-238.	0.8	9
29	Root Canal Debridement and Disinfection in Minimally Invasive Preparation. , 2021, , 93-107.		3
30	Photoluminescence-Based Bioassay With Cysteamine-Capped TiO ₂ Nanoparticles for the Selective Recognition of N-Acyl Homoserine Lactones. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 750933.	2.0	5
31	A chitosan-based irrigant improves the dislocation resistance of a mineral trioxide aggregate-resin hybrid root canal sealer. <i>Clinical Oral Investigations</i> , 2020, 24, 151-156.	1.4	10
32	A novel, doped calcium silicate bioceramic synthesized by sol-gel method: Investigation of setting time and biological properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 56-66.	1.6	26
33	The influence of substrate surface conditioning and biofilm age on the composition of <i>Enterococcus faecalis</i> biofilms. <i>International Endodontic Journal</i> , 2020, 53, 53-61.	2.3	22
34	Evaluation of the introduction of a dental virtual simulator on the performance of undergraduate dental students in the pre-clinical operative dentistry course. <i>European Journal of Dental Education</i> , 2020, 24, 5-16.	1.0	64
35	Oral health-related quality of life (OHRQoL) before and after endodontic treatment: a systematic review. <i>Clinical Oral Investigations</i> , 2020, 24, 25-36.	1.4	30
36	What is of interest in Endodontology? A bibliometric review of research published in the <i>International Endodontic Journal</i> and the <i>Journal of Endodontics</i> from 1980 to 2019. <i>International Endodontic Journal</i> , 2020, 53, 36-52.	2.3	34

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37	<i>In vitro</i>cytocompatibility and osteogenic potential of calcium silicate-based dental cements in a root canal-filling model. Journal of International Medical Research, 2020, 48, 030006051989480.	0.4	6
38	Dentinal tubule penetration and root canal cleanliness following ultrasonic activation of intracanal heated sodium hypochlorite. Australian Endodontic Journal, 2020, 46, 204-209.	0.6	30
39	Interactions between Candida albicans and Enterococcus faecalis in an Organotypic Oral Epithelial Model. Microorganisms, 2020, 8, 1771.	1.6	16
40	Trans-cinnamaldehyde potently kills Enterococcus faecalis biofilm cells and prevents biofilm recovery. Microbial Pathogenesis, 2020, 149, 104482.	1.3	20
41	Guardian genes ensuring subsistence of oral <i>Streptococcus mutans</i>. Critical Reviews in Microbiology, 2020, 46, 475-491.	2.7	18
42	Exploration of Anti-infectives From Mangrove-Derived Micromonospora sp. RMA46 to Combat Vibrio cholerae Pathogenesis. Frontiers in Microbiology, 2020, 11, 1393.	1.5	9
43	Combined Effect of Melittin and DNase on Enterococcus faecalis Biofilms and Its Susceptibility to Sodium Hypochlorite. Materials, 2020, 13, 3740.	1.3	6
44	A Novel Small Molecule, 1,3-di-m-tolyl-urea, Inhibits and Disrupts Multispecies Oral Biofilms. Microorganisms, 2020, 8, 1261.	1.6	7
45	Novel materials and therapeutic strategies against the infection of implants. Emergent Materials, 2020, 3, 545-557.	3.2	5
46	The effects of sequential and continuous chelation on dentin. Dental Materials, 2020, 36, 1655-1665.	1.6	21
47	Root fillings with a matched-taper single cone and two calcium silicate based sealers: an analysis of voids using micro-computed tomography. Clinical Oral Investigations, 2020, 24, 4487-4492.	1.4	22
48	Effect of a novel synbiotic on Streptococcus mutans. Scientific Reports, 2020, 10, 7951.	1.6	23
49	The effect of four materials on direct pulp capping: An animal study. Australian Endodontic Journal, 2020, 46, 249-256.	0.6	27
50	Dentinal Tubule Penetration and Dislocation Resistance of a New Bioactive Root Canal Sealer Following Root Canal Medicament Removal Using Sonic Agitation or Laser-Activated Irrigation. European Endodontic Journal, 2020, 5, 264-270.	0.4	6
51	Dentin moisture conditions strongly influence its interactions with bioactive root canal sealers. Restorative Dentistry & Endodontics, 2020, 45, e24.	0.6	16
52	The effect of root canal irrigants on dentin: a focused review. Restorative Dentistry & Endodontics, 2020, 45, e39.	0.6	29
53	Endotoxin levels after chemomechanical preparation of root canals with sodium hypochlorite or chlorhexidine: a systematic review of clinical trials and meta-analysis. International Endodontic Journal, 2019, 52, 19-27.	2.3	31
54	Effectiveness of irrigation strategies on the removal of the smear layer from root canal dentin. Odontology / the Society of the Nippon Dental University, 2019, 107, 142-149.	0.9	13

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55	Adhesion of Two New Glass Fiber Post Systems Cemented with Self-Adhesive Resin Cements. <i>Dentistry Journal</i> , 2019, 7, 80.	0.9	7
56	Antibacterial Additives in Epoxy Resin-Based Root Canal Sealers: A Focused Review. <i>Dentistry Journal</i> , 2019, 7, 72.	0.9	21
57	Influence of apical preparation size and irrigation technique on root canal debridement: a histological analysis of round and oval root canals. <i>International Endodontic Journal</i> , 2019, 52, 1366-1376.	2.3	38
58	Retreatability of two hydraulic calcium silicate-based root canal sealers using rotary instrumentation with supplementary irrigant agitation protocols: a laboratory-based micro-computed tomographic analysis. <i>International Endodontic Journal</i> , 2019, 52, 1377-1387.	2.3	34
59	Effect of instrumentation systems on endotoxin reduction from root canal systems: A systematic review of clinical studies and meta-analysis. <i>Australian Endodontic Journal</i> , 2019, 45, 407-413.	0.6	8
60	Effect of root canal debridement on inflammatory cytokine levels. <i>Australian Endodontic Journal</i> , 2019, 45, 171-176.	0.6	8
61	Acidic and alkaline chemicals' influence on a tricalcium silicate-based dental biomaterial. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 377-387.	1.6	15
62	Effect of irrigant neutralizing reducing agents on the compromised dislocation resistance of an epoxy resin and a methacrylate resin-based root canal sealer in vitro. <i>International Journal of Adhesion and Adhesives</i> , 2018, 82, 206-210.	1.4	7
63	Effectiveness of ultrasonically activated irrigation on root canal disinfection: a systematic review of in vitro studies. <i>Clinical Oral Investigations</i> , 2018, 22, 655-670.	1.4	61
64	Effect of root canal irrigation protocols on the dislocation resistance of mineral trioxide aggregate-based materials: A systematic review of laboratory studies. <i>International Endodontic Journal</i> , 2018, 51, 847-861.	2.3	27
65	Effectiveness of supplementary irrigant agitation with the Finisher GF Brush on the debridement of oval root canals instrumented with the Gentlefile or nickel titanium rotary instruments. <i>International Endodontic Journal</i> , 2018, 51, 800-807.	2.3	16
66	Does the Orifice-directed Dentin Conservation Access Design Debride Pulp Chamber and Mesial Root Canal Systems of Mandibular Molars Similar to a Traditional Access Design?. <i>Journal of Endodontics</i> , 2018, 44, 274-279.	1.4	72
67	A new system for classifying accessory canal morphology. <i>International Endodontic Journal</i> , 2018, 51, 164-176.	2.3	49
68	<i>Enterococcus faecalis</i> immunoregulates osteoclastogenesis of macrophages. <i>Experimental Cell Research</i> , 2018, 362, 152-158.	1.2	17
69	Immunohistochemical characterization of stem cell and differentiation markers of the dental pulp of human natal teeth. <i>Future Science OA</i> , 2018, 4, FSO342.	0.9	8
70	Root canal irrigants influence the hydrophobicity and adherence of <i>Staphylococcus epidermidis</i> to root canal dentin: an in vitro study. <i>Restorative Dentistry & Endodontics</i> , 2018, 43, e1.	0.6	1
71	In vitro assessment of ribose modified two-step etch-and-rinse dentine adhesive. <i>Dental Materials</i> , 2018, 34, 1175-1187.	1.6	8
72	Endodontic Microbiology – A Special Issue of <i>Dentistry Journal</i> . <i>Dentistry Journal</i> , 2018, 6, 14.	0.9	4

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73	Cone-beam computed tomographic and histological investigation of regenerative endodontic procedure in an immature mandibular second premolar with chronic apical abscess. <i>Journal of Investigative and Clinical Dentistry</i> , 2018, 9, e12352.	1.8	6
74	Light Activated Disinfection in Root Canal Treatment—A Focused Review. <i>Dentistry Journal</i> , 2018, 6, 31.	0.9	9
75	Unusual root canal morphology of mandibular first premolar and its management: A rare case report. <i>Journal of Conservative Dentistry</i> , 2018, 21, 344.	0.3	3
76	Root canal morphology and variations in mandibular second molar teeth of an Indian population: an in vivo cone-beam computed tomography analysis. <i>Clinical Oral Investigations</i> , 2017, 21, 2801-2809.	1.4	45
77	Effect of root canal irrigating solutions on the compressive strength of tricalcium silicate cements. <i>Clinical Oral Investigations</i> , 2017, 21, 567-571.	1.4	99
78	Biofilms in Endodontics—Current Status and Future Directions. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1748.	1.8	137
79	Extrusion of Debris from Primary Molar Root Canals following Instrumentation with Traditional and New File Systems. <i>Journal of Contemporary Dental Practice</i> , 2017, 18, 1040-1044.	0.2	13
80	Evolution of Nickel-titanium Alloys in Endodontics. <i>Journal of Contemporary Dental Practice</i> , 2017, 18, 1090-1096.	0.2	20
81	Cyclic fatigue of two different single files with varying kinematics in a simulated double-curved canal. <i>Journal of Investigative and Clinical Dentistry</i> , 2016, 7, 272-277.	1.8	19
82	Antibiofilm efficacy of photoactivated curcumin, triple and double antibiotic paste, 2% chlorhexidine and calcium hydroxide against <i>Enterococcus fecalis</i> in vitro. <i>Scientific Reports</i> , 2016, 6, 24797.	1.6	48
83	Histologic Assessment of Debridement of the Root Canal Isthmus of Mandibular Molars by Irrigant Activation Techniques <i>Ex Vivo</i> . <i>Journal of Endodontics</i> , 2016, 42, 1268-1272.	1.4	32
84	Three-dimensional Quantitative Porosity Characterization of Syringe- versus Hand-mixed Set Epoxy Resin Root Canal Sealer. <i>Brazilian Dental Journal</i> , 2015, 26, 607-611.	0.5	12
85	Influence of Irrigation Sequence on the Adhesion of Root Canal Sealers to Dentin: A Fourier Transform Infrared Spectroscopy and Push-out Bond Strength Analysis. <i>Journal of Endodontics</i> , 2015, 41, 1108-1111.	1.4	89
86	Impact of conditioning regimens and time on adhesion of a fiber post to root dentin using two resin cements. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 337-346.	1.4	4
87	The effect of root dentin conditioning protocols on the push-out bond strength of three calcium silicate sealers. <i>International Journal of Adhesion and Adhesives</i> , 2015, 60, 104-108.	1.4	27
88	Pain after single-visit root canal treatment with two single-file systems based on different kinematics—a prospective randomized multicenter clinical study. <i>Clinical Oral Investigations</i> , 2015, 19, 2211-2217.	1.4	75
89	Photoactivation of curcumin and sodium hypochlorite to enhance antibiofilm efficacy in root canal dentin. <i>Photodiagnosis and Photodynamic Therapy</i> , 2015, 12, 108-114.	1.3	53
90	Antibiofilm activity of three irrigation protocols activated by ultrasonic, diode laser or Er:YAG laser <i>in vitro</i> . <i>International Endodontic Journal</i> , 2015, 48, 602-610.	2.3	119

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91	Three-dimensional imaging modalities in endodontics. <i>Imaging Science in Dentistry</i> , 2014, 44, 177.	0.6	15
92	Effect of gutta-percha solvents on the bond strength of two resin-based sealers to root canal dentin. <i>Acta Odontologica Scandinavica</i> , 2014, 72, 376-379.	0.9	7
93	Efficacy of Contemporary and Novel Intracanal Medicaments against <i>Enterococcus Faecalis</i> . <i>Journal of Clinical Pediatric Dentistry</i> , 2014, 39, 47-50.	0.5	19
94	Retreatability of 2 Mineral Trioxide Aggregate-based Root Canal Sealers: A Cone-beam Computed Tomography Analysis. <i>Journal of Endodontics</i> , 2013, 39, 893-896.	1.4	114
95	Effectiveness of curcumin against <i>Enterococcus faecalis</i> biofilm. <i>Acta Odontologica Scandinavica</i> , 2013, 71, 1453-1457.	0.9	61
96	The shear bond strength of resin-based composite to white mineral trioxide aggregate. <i>Journal of the American Dental Association</i> , 2012, 143, e40-e45.	0.7	28
97	Application of mercury intrusion porosimetry for studying the porosity of mineral trioxide aggregate at two different pH. <i>Acta Odontologica Scandinavica</i> , 2012, 70, 78-82.	0.9	26
98	Effect of storage temperature on sealing ability and solubility of White Mineral Trioxide Aggregate. <i>Acta Odontologica Scandinavica</i> , 2012, 70, 536-540.	0.9	8
99	Back-scattered and secondary electron images of scanning electron microscopy in dentistry: a new method for surface analysis. <i>Acta Odontologica Scandinavica</i> , 2012, 70, 603-609.	0.9	27
100	Continuous chelation irrigation improves the adhesion of epoxy resin-based root canal sealer to root dentine. <i>International Endodontic Journal</i> , 2012, 45, 1097-1102.	2.3	90
101	Bacteriology of deep carious lesions underneath amalgam restorations with different pulp-capping materials - an in vivo analysis. <i>Journal of Applied Oral Science</i> , 2012, 20, 139-145.	0.7	21
102	Removal of Gutta-Percha/Zinc-Oxide-Eugenol Sealer or Gutta-Percha/Epoxy Resin Sealer from Severely Curved Canals: An In Vitro Study. <i>International Journal of Dentistry</i> , 2011, 2011, 1-6.	0.5	10
103	The efficacy of pre-operative oral medication of lornoxicam and diclofenac potassium on the success of inferior alveolar nerve block in patients with irreversible pulpitis: a double-blind, randomised controlled clinical trial. <i>International Endodontic Journal</i> , 2011, 44, 330-336.	2.3	47
104	The impact of root dentine conditioning on sealing ability and push-out bond strength of an epoxy resin root canal sealer. <i>International Endodontic Journal</i> , 2011, 44, 491-498.	2.3	266
105	Root and canal morphology of Indian maxillary premolars by a modified root canal staining technique. <i>Odontology / the Society of the Nippon Dental University</i> , 2011, 99, 18-21.	0.9	45
106	Fluoride Release From a New Glass-ionomer Cement. <i>Operative Dentistry</i> , 2011, 36, 80-85.	0.6	59
107	Age estimation in an Indian population using pulp/tooth volume ratio of mandibular canines obtained from cone beam computed tomography. <i>Journal of Forensic Odonto-Stomatology</i> , 2011, 29, 1-6.	0.2	22
108	Root and Canal Morphology of Mandibular Second Molars in an Indian Population. <i>Journal of Endodontics</i> , 2010, 36, 1319-1322.	1.4	65

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109	Comparative Evaluation of Modified Canal Staining and Clearing Technique, Cone-Beam Computed Tomography, Peripheral Quantitative Computed Tomography, Spiral Computed Tomography, and Plain and Contrast Medium-enhanced Digital Radiography in Studying Root Canal Morphology. <i>Journal of Endodontics</i> , 2010, 36, 1547-1551.	1.4	245
110	Cone-Beam Computed Tomography Study of Root and Canal Morphology of Maxillary First and Second Molars in an Indian Population. <i>Journal of Endodontics</i> , 2010, 36, 1622-1627.	1.4	224
111	Color stability of microfilled, microhybrid and nanocomposite resins-An in vitro study. <i>Journal of Dentistry</i> , 2010, 38, e137-e142.	1.7	238
112	Ultramorphological Characterization of the Resin Dentin Interface An in vitro Analysis of Nanoleakage Patterns of Dentin Adhesives. <i>Journal of Clinical Pediatric Dentistry</i> , 2009, 33, 223-230.	0.5	2
113	Restoring function and esthetics in a pair of twins with amelogenesis imperfecta. <i>Journal of Indian Prosthodontic Society</i> , The, 2009, 9, 105.	0.3	0
114	An Analysis of the Antimicrobial Activity of Ten Root Canal Sealers - A Duration Based in vitro Evaluation. <i>Journal of Clinical Pediatric Dentistry</i> , 2008, 33, 117-122.	0.5	11
115	Duration-dependent susceptibility of endodontic pathogens to calcium hydroxide and chlorhexidene gel used as intracanal medicament: an in vitro evaluation. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2007, 104, e138-e141.	1.6	37