Vinicius Rosa

List of Publications by Year in descending order

83 papers	2,599 citations	185998 28 h-index	205818 48 g-index
86 all docs	86 docs citations	86 times ranked	3263 citing authors

#	Article	IF	Citations
1	Dental Pulp Tissue Engineering in Full-length Human Root Canals. Journal of Dental Research, 2013, 92, 970-975.	2.5	264
2	Graphene: A Versatile Carbon-Based Material for Bone Tissue Engineering. Stem Cells International, 2015, 2015, 1-12.	1.2	177
3	Applications of additive manufacturing in dentistry: A review. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2058-2064.	1.6	131
4	Tissue engineering: From research to dental clinics. Dental Materials, 2012, 28, 341-348.	1.6	115
5	Graphene for the development of the next-generation of biocomposites for dental and medical applications. Dental Materials, 2017, 33, 765-774.	1.6	115
6	Visual and instrumental agreement in dental shade selection: Three distinct observer populations and shade matching protocols. Dental Materials, 2009, 25, 276-281.	1.6	106
7	Graphene oxide-based substrate: physical and surface characterization, cytocompatibility and differentiation potential of dental pulp stem cells. Dental Materials, 2016, 32, 1019-1025.	1.6	96
8	Two and three-dimensional graphene substrates to magnify osteogenic differentiation of periodontal ligament stem cells. Carbon, 2015, 93, 266-275.	5.4	83
9	CVD-grown monolayer graphene induces osteogenic but not odontoblastic differentiation of dental pulp stem cells. Dental Materials, 2017, 33, e13-e21.	1.6	66
10	Root Canal Filling Quality of a Premixed Calcium Silicate Endodontic Sealer Applied Using Gutta-percha Cone-mediated Ultrasonic Activation. Journal of Endodontics, 2018, 44, 133-138.	1.4	58
11	Pluripotency of Stem Cells from Human Exfoliated Deciduous Teeth for Tissue Engineering. Stem Cells International, 2016, 2016, 1-6.	1.2	53
12	Graphene onto medical grade titanium: an atom-thick multimodal coating that promotes osteoblast maturation and inhibits biofilm formation from distinct species. Nanotoxicology, 2018, 12, 274-289.	1.6	52
13	Graphene-Induced Osteogenic Differentiation Is Mediated by the Integrin/FAK Axis. International Journal of Molecular Sciences, 2019, 20, 574.	1.8	52
14	Hydrophobicity of graphene as a driving force for inhibiting biofilm formation of pathogenic bacteria and fungi. Dental Materials, 2019, 35, 403-413.	1.6	49
15	Effect of staining beverages on color and translucency of CAD/CAM composites. Journal of Esthetic and Restorative Dentistry, 2018, 30, E9-E17.	1.8	48
16	Influence of pH on slow crack growth of dental porcelains. Dental Materials, 2008, 24, 814-823.	1.6	47
17	Graphene Nanosheets to Improve Physico-Mechanical Properties of Bioactive Calcium Silicate Cements. Materials, 2017, 10, 606.	1.3	41
18	Modulation of Dental Pulp Stem Cell Odontogenesis in a Tunable PEG-Fibrinogen Hydrogel System. Stem Cells International, 2015, 2015, 1-9.	1.2	38

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19	Regenerative endodontics in light of the stem cell paradigm. International Dental Journal, 2011, 61, 23-28.	1.0	37
20	Bioactivity, physical and chemical properties of MTA mixed with propylene glycol. Journal of Applied Oral Science, 2015, 23, 405-411.	0.7	36
21	Fabrication and evaluation of electrohydrodynamic jet 3D printed polycaprolactone/chitosan cell carriers using human embryonic stem cell-derived fibroblasts. Journal of Biomaterials Applications, 2016, 31, 181-192.	1.2	35
22	Effects of Epigallocatechin Gallate, an Antibacterial Cross-linking Agent, on Proliferation and Differentiation of Human Dental Pulp Cells Cultured in Collagen Scaffolds. Journal of Endodontics, 2017, 43, 289-296.	1.4	34
23	Effect of ion exchange on strength and slow crack growth of a dental porcelain. Dental Materials, 2009, 25, 736-743.	1.6	33
24	Graphene transfer to 3-dimensional surfaces: a vacuum-assisted dry transfer method. 2D Materials, 2017, 4, 025060.	2.0	33
25	CVD graphene transfer procedure to the surface of stainless steel for stem cell proliferation. Surface and Coatings Technology, 2017, 311, 10-18.	2.2	33
26	Functional Odontoblastic-Like Cells Derived from Human iPSCs. Journal of Dental Research, 2018, 97, 77-83.	2.5	32
27	Inhibiting Corrosion of Biomedical-Grade Ti-6Al-4V Alloys with Graphene Nanocoating. Journal of Dental Research, 2020, 99, 285-292.	2.5	32
28	Subcritical crack growth and in vitro lifetime prediction of resin composites with different filler distributions. Dental Materials, 2012, 28, 985-995.	1.6	30
29	Enhanced Skin Permeation of Anti-wrinkle Peptides via Molecular Modification. Scientific Reports, 2018, 8, 1596.	1.6	30
30	Behaviour of human dental pulp cells cultured in a collagen hydrogel scaffold crossâ€linked with cinnamaldehyde. International Endodontic Journal, 2017, 50, 58-66.	2.3	28
31	Mechanisms of graphene influence on cell differentiation. Materials Today Chemistry, 2020, 16, 100250.	1.7	28
32	Reliability, failure probability, and strength of resin-based materials for CAD/CAM restorations. Journal of Applied Oral Science, 2016, 24, 447-452.	0.7	27
33	Persistent inhibition of Candida albicans biofilm and hyphae growth on titanium by graphene nanocoating. Dental Materials, 2021, 37, 370-377.	1.6	27
34	Mechanical properties and in vitro cytocompatibility of dense and porous Tiâ€“6Alâ€“4V ELI manufactured by selective laser melting technology for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 123, 104712.	1.5	27
35	Role of extracellular DNA in Enterococcus faecalis biofilm formation and its susceptibility to sodium hypochlorite. Journal of Applied Oral Science, 2019, 27, e20180699.	0.7	25
36	Thermo-setting glass ionomer cements promote variable biological responses of human dental pulp stem cells. Dental Materials, 2018, 34, 932-943.	1.6	23

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37	Polymer Nanocomposites Based on Poly(Îµ-caprolactone), Hydroxyapatite and Graphene Oxide. Journal of Polymers and the Environment, 2020, 28, 331-342.	2.4	23
38	Effect of acid etching of glass ionomer cement surface on the microleakage of sandwich restorations. Journal of Applied Oral Science, 2007, 15, 230-234.	0.7	21
39	Biomechanics of alloplastic mandible reconstruction using biomaterials: The effect of implant design on stress concentration influences choice of material. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103548.	1.5	21
40	Tooth discoloration induced by a novel mineral trioxide aggregate-based root canal sealer. European Journal of Dentistry, 2016, 10, 403-407.	0.8	20
41	Translucency, hardness and strength parameters of PMMA resin containing graphene-like material for CAD/CAM restorations. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 100, 103388.	1.5	20
42	Characterization of Enterococcus faecalis in different culture conditions. Scientific Reports, 2020, 10, 21867.	1.6	19
43	Pluripotent stem cells: An in vitro model for nanotoxicity assessments. Journal of Applied Toxicology, 2016, 36, 1250-1258.	1.4	17
44	Characterization of silver diamine fluoride cytotoxicity using microfluidic tooth-on-a-chip and gingival equivalents. Dental Materials, 2022, 38, 1385-1394.	1.6	17
45	Taguchi's methods to optimize the properties and bioactivity of 3D printed polycaprolactone/mineral trioxide aggregate scaffold: Theoretical predictions and experimental validation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 629-637.	1.6	16
46	Fabrication of dentin-like scaffolds through combined 3D printing and bio-mineralisation. Cogent Engineering, 2016, 3, 1222777.	1.1	15
47	Streptococcus mutans forms xylitol-resistant biofilm on excess adhesive flash in novel ex-vivo orthodontic bracket model. American Journal of Orthodontics and Dentofacial Orthopedics, 2017, 151, 669-677.	0.8	15
48	Pulsed electromagnetic fields synergize with graphene to enhance dental pulp stem cell-derived neurogenesis by selectively targeting TRPC1 channels. , 2021, 41, 216-232.		15
49	Graphene nanocoating provides superb long-lasting corrosion protection to titanium alloy. Dental Materials, 2021, 37, 1553-1560.	1.6	15
50	Antibiotics Used in Regenerative Endodontics Modify Immune Response of Macrophages to Bacterial Infection. Journal of Endodontics, 2019, 45, 1349-1356.	1.4	14
51	Effects of chrondro-osseous regenerative compound associated with local treatments in the regeneration of bone defects around implants: an in vivo study. Clinical Oral Investigations, 2016, 20, 267-274.	1.4	13
52	Graphene Nanocoating: High Quality and Stability upon Several Stressors. Journal of Dental Research, 2021, 100, 1169-1177.	2.5	13
53	Inducing pluripotency for disease modeling, drug development and craniofacial applications. Expert Opinion on Biological Therapy, 2014, 14, 1233-1240.	1.4	12
54	Fatigue stipulation of bulk-fill composites: An in vitro appraisal. Dental Materials, 2015, 31, 1068-1074.	1.6	12

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55	Osteogenic potential of graphene coated titanium is independent of transfer technique. Materialia, 2020, 9, 100604.	1.3	12
56	Fighting viruses with materials science: Prospects for antivirus surfaces, drug delivery systems and artificial intelligence. Dental Materials, 2021, 37, 496-507.	1.6	12
57	What and where are the stem cells for Dentistry?. Singapore Dental Journal, 2013, 34, 13-18.	0.8	10
58	In Vitro Osteogenic Potential of Green Fluorescent Protein Labelled Human Embryonic Stem Cell-Derived Osteoprogenitors. Stem Cells International, 2016, 2016, 1-9.	1.2	10
59	Main and Accessory Canal Filling Quality of a Premixed Calcium Silicate Endodontic Sealer According to Different Obturation Techniques. Materials, 2020, 13, 4389.	1.3	10
60	Influence of shade and irradiation time on the hardness of composite resins. Brazilian Dental Journal, 2007, 18, 231-234.	0.5	9
61	Effect of ion exchange on R-curve behavior of a dental porcelain. Journal of Materials Science, 2011, 46, 117-122.	1.7	9
62	Comparative study of xeno-free induction protocols for neural differentiation of human dental pulp stem cells in vitro. Archives of Oral Biology, 2020, 109, 104572.	0.8	9
63	A critical analysis of research methods and biological experimental models to study pulp regeneration. International Endodontic Journal, 2022, 55, 446-455.	2.3	9
64	Effect of ion-exchange temperature on mechanical properties of a dental porcelain. Ceramics International, 2010, 36, 1977-1981.	2.3	7
65	Characterization, Antimicrobial Effects, and Cytocompatibility of a Root Canal Sealer Produced by Pozzolan Reaction between Calcium Hydroxide and Silica. Materials, 2021, 14, 2863.	1.3	7
66	Potential Applications of Graphene-Based Nanomaterials in Biomedical, Dental, and Implant Applications. , 2021, , 77-105.		7
67	Effect of Test Environment and Microstructure on the Flexural Strength of Dental Porcelains. Journal of Prosthodontics, 2011, 20, 275-279.	1.7	6
68	Combined Effect of Melittin and DNase on Enterococcus faecalis Biofilms and Its Susceptibility to Sodium Hypochlorite. Materials, 2020, 13, 3740.	1.3	6
69	Effect of a calcium hydroxide-based intracanal medicament containing N-2-methyl pyrrolidone as a vehicle against Enterococcus faecalis biofilm. Journal of Applied Oral Science, 2020, 28, e20190516.	0.7	6
70	SMART: Silver diamine fluoride reduces microtensile bond strength of glass ionomer cement to sound and artificial caries-affected dentin. Dental Materials Journal, 2022, 41, 698-704.	0.8	6
71	Carbon nanocomposites for implant dentistry and bone tissue engineering. , 2019, , 47-63.		5
72	Novel materials and therapeutic strategies against the infection of implants. Emergent Materials, 2020, 3, 545-557.	3.2	5

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73	Are Flowable Resin-Based Composites a Reliable Material for Metal Orthodontic Bracket Bonding?. Journal of Contemporary Dental Practice, 2010, 11, 17-24.	0.2	5
74	Graphene: An Emerging Carbon Nanomaterial for Bone Tissue Engineering. Carbon Nanostructures, 2016, , 135-158.	0.1	3
75	Two-Photon Fluorescence Microscopy and Applications in Angiogenesis and Related Molecular Events. Tissue Engineering - Part B: Reviews, 2022, 28, 926-937.	2.5	3
76	Dental Stem Cells for Pulp Regeneration. Pancreatic Islet Biology, 2016, , 147-163.	0.1	1
77	Effect of Needle Diameter on Scaffold Morphology and Strength in E-Jetted Polycaprolactone Scaffolds. , 2017, , .		1
78	CHAPTER 12. Smart Carbon Nanotubes and Graphenes for Tissue Engineering. RSC Smart Materials, 2016, , 330-357.	0.1	1
79	Optimization of Surface Scaffold Morphology and Structure Using Taguchiâ€™s Design of Experiments. , 2018, , .		1
80	Graphene to improve the physicomechanical properties and bioactivity of the cements. , 2019, , 599-614.		0
81	Induced pluripotent stem cell-derived odontoblasts for disease modeling, drug development, and craniofacial applications. , 2021, , 81-94.		0
82	Structural Reinforcement and Sealing Ability of Temporary Fillings in Premolar with Class II MOD Cavities. Journal of Contemporary Dental Practice, 2014, 15, 66-70.	0.2	0
83	Sodium Hypochlorite Treatment Post-Etching Improves the Bond Strength of Resin-Based Sealant to Hypomineralized Enamel by Removing Surface Organic Content. Pediatric Dentistry (discontinued), 2020, 42, 392-398.	0.4	0