Marco Cicero Bottino

List of Publications by Year
in descending order

119	4,617	94433	123424
papers	citations	37 h-index	61 g-index

121	121	121	4639
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unveiling the potential of melt electrowriting in regenerative dental medicine. Acta Biomaterialia, 2023, 156, 88-109.	8.3	18
2	Tissue-specific melt electrowritten polymeric scaffolds for coordinated regeneration of soft and hard periodontal tissues. Bioactive Materials, 2023, 19, 268-281.	15.6	28
3	Natural monoterpenes-laden electrospun fibrous scaffolds for endodontic infection eradication. Odontology / the Society of the Nippon Dental University, 2023, 111, 78-84.	1.9	4
4	Innovations in craniofacial bone and periodontal tissue engineering â€“ from electrospinning to converged biofabrication. International Materials Reviews, 2022, 67, 347-384.	19.3	23
5	Dental pulp tissue regeneration. , 2022, , 313-346.		1
6	Three-dimensional printing of clinical scale and personalized calcium phosphate scaffolds for alveolar bone reconstruction. Dental Materials, 2022, 38, 529-539.	3.5	23
7	Engineering of Injectable Antibiotic-laden Fibrous Microparticles Gelatin Methacryloyl Hydrogel for Endodontic Infection Ablation. International Journal of Molecular Sciences, 2022, 23, 971.	4.1	15
8	Novel cinnamon-laden nanofibers as a potential antifungal coating for poly(methyl methacrylate) denture base materials. Clinical Oral Investigations, 2022, 26, 3697-3706.	3.0	1
9	Influence of ethylenediaminetetraacetic acid on regenerative endodontics: A systematic review. International Endodontic Journal, 2022, 55, 579-612.	5.0	11
10	Do resin cement viscosity and ceramic surface etching influence the fatigue performance of bonded lithium disilicate glass-ceramic crowns?. Dental Materials, 2022, 38, e59-e67.	3.5	15
11	Scenario IV: Underâ€resourced but resilient and transformative. Journal of Dental Education, 2022, 86, 364-367.	1.2	1
12	Dental education 2026: A scenario exploration. Journal of Dental Education, 2022, 86, 343-351.	1.2	2
13	The role of nanohydroxyapatite on the morphological, physical, and biological properties of chitosan nanofibers. Clinical Oral Investigations, 2021, 25, 3095-3103.	3.0	4
14	Development and properties of endodontic resin sealers with natural oils. Journal of Dentistry, 2021, 104, 103538.	4.1	5
15	Comparison of Volumetric Dimensional Changes of Calcium Aluminate, Resin Modified Glass Ionomers and Resin Luting Cements Among Different Storage Conditions. Science of Advanced Materials, 2021, 13, 294-301.	0.7	0
16	Metformin-loaded nanospheres-laden photocrosslinkable gelatin hydrogel for bone tissue engineering. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 116, 104293.	3.1	29
17	Alumina particle air-abrasion and aging effects: Fatigue behavior of CAD/CAM resin composite crowns and flexural strength evaluations. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 121, 104592.	3.1	4
18	Platform technologies for regenerative endodontics from multifunctional biomaterials to tooth-on-a-chip strategies. Clinical Oral Investigations, 2021, 25, 4749-4779.	3.0	23

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19	Injectable Multifunctional Drug Delivery System for Hard Tissue Regeneration under Inflammatory Microenvironments. ACS Applied Bio Materials, 2021, 4, 6993-7006.	4.6	16
20	A Highly Ordered, Nanostructured Fluorinated CaPâ€Coated Melt Electrowritten Scaffold for Periodontal Tissue Regeneration. Advanced Healthcare Materials, 2021, 10, e2101152.	7.6	32
21	Personalized and Defect-Specific Antibiotic-Laden Scaffolds for Periodontal Infection Ablation. ACS Applied Materials & Interfaces, 2021, 13, 49642-49657.	8.0	15
22	Nanofibrous antibioticâ€eluting matrices: Biocompatibility studies in a rat model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 306-315.	3.4	9
23	Fabrication and evaluation of 3-D printed PEEK scaffolds containing Macropores by design. Materials Letters, 2020, 263, 127227.	2.6	31
24	Injectable Highly Tunable Oligomeric Collagen Matrices for Dental Tissue Regeneration. ACS Applied Bio Materials, 2020, 3, 859-868.	4.6	33
25	The role of polymeric nanofibers on the mechanical behavior of polymethyl methacrylate resin. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 112, 104072.	3.1	6
26	Hybrid Antimicrobial Hydrogel as Injectable Therapeutics for Oral Infection Ablation. Biomacromolecules, 2020, 21, 3945-3956.	5.4	49
27	Harnessing biomolecules for bioinspired dental biomaterials. Journal of Materials Chemistry B, 2020, 8, 8713-8747.	5.8	33
28	Antimicrobial Therapeutics in Regenerative Endodontics: A Scoping Review. Journal of Endodontics, 2020, 46, S115-S127.	3.1	24
29	Development of an antibacterial and anti-metalloproteinase dental adhesive for long-lasting resin composite restorations. Journal of Materials Chemistry B, 2020, 8, 10797-10811.	5.8	19
30	Highly tunable bioactive fiber-reinforced hydrogel for guided bone regeneration. Acta Biomaterialia, 2020, 113, 164-176.	8.3	77
31	Injectable MMP-Responsive Nanotube-Modified Gelatin Hydrogel for Dental Infection Ablation. ACS Applied Materials & Interfaces, 2020, 12, 16006-16017.	8.0	69
32	Characterization of novel calcium hydroxideâ€mediated highly porous chitosanâ€calcium scaffolds for potential application in dentin tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2546-2559.	3.4	29
33	Extracellular Matrix/Amorphous Magnesium Phosphate Bioink for 3D Bioprinting of Craniomaxillofacial Bone Tissue. ACS Applied Materials & Interfaces, 2020, 12, 23752-23763.	8.0	79
34	Electrospinning of dexamethasone/cyclodextrin inclusion complex polymer fibers for dental pulp therapy. Colloids and Surfaces B: Biointerfaces, 2020, 191, 111011.	5.0	42
35	Chlorhexidine-modified nanotubes and their effects on the polymerization and bonding performance of a dental adhesive. Dental Materials, 2020, 36, 687-697.	3.5	17
36	Bioactive amorphous magnesium phosphate-polyetheretherketone composite filaments for 3D printing. Dental Materials, 2020, 36, 865-883.	3.5	42

#	Article	IF	Citations
37	Comparison of Internal Adaptation of Bulk-fill and Increment-fill Resin Composite Materials. Operative Dentistry, 2019, 44, E32-E44.	1.2	42
38	Fatigue Failure Load of Lithium Disilicate Restorations Cemented on a Chairside Titaniumâ€Base. Journal of Prosthodontics, 2019, 28, 973-981.	3.7	11
39	Low-fusing porcelain glaze application does not damage the fatigue strength of Y-TZP. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 99, 198-205.	3.1	17
40	Incorporating N-acetylcysteine and tricalcium phosphate into epoxy resin-based sealer improved its biocompatibility and adhesiveness to radicular dentine. Dental Materials, 2019, 35, 1750-1756.	3.5	11
41	Curcuminâ€"A Natural Medicament for Root Canal Disinfection: Effects of Irrigation, Drug Release, and Photoactivation. Journal of Endodontics, 2019, 45, 1371-1377.	3.1	24
42	Comparative Evaluation of the Cytotoxic and Angiogenic Effects of Minocycline and Clindamycin: An InÂVitro Study. Journal of Endodontics, 2019, 45, 882-889.	3.1	18
43	Influence of finishing/polishing on the fatigue strength, surface topography, and roughness of an yttrium-stabilized tetragonal zirconia polycrystals subjected to grinding. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 93, 222-229.	3.1	23
44	Physicochemical and biological properties of novel chlorhexidineâ€loaded nanotubeâ€modified dentin adhesive. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 868-875.	3.4	14
45	Current and Future Views on Biomaterial Use in Regenerative Endodontics. , 2019, , 77-98.		1
46	Interplay between toothbrush stiffness and dentifrice abrasivity on the development of non-carious cervical lesions. Clinical Oral Investigations, 2019, 23, 3551-3556.	3.0	21
47	A novel patientâ€specific threeâ€dimensional drug delivery construct for regenerative endodontics. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1576-1586.	3.4	36
48	Animal Models for Stem Cell-Based Pulp Regeneration: Foundation for Human Clinical Applications. Tissue Engineering - Part B: Reviews, 2019, 25, 100-113.	4.8	46
49	Clindamycin-modified Triple Antibiotic Nanofibers: A Stain-free Antimicrobial Intracanal Drug Delivery System. Journal of Endodontics, 2018, 44, 155-162.	3.1	67
50	Doxycycline-loaded nanotube-modified adhesives inhibit MMP in a dose-dependent fashion. Clinical Oral Investigations, 2018, 22, 1243-1252.	3.0	32
51	Bond strength and durability of universal adhesive agents with lithium disilicate ceramics: A shear bond strength study. Journal of Adhesion Science and Technology, 2018, 32, 580-589.	2.6	6
52	Adhesion to a Lithium Disilicate Glass Ceramic Etched with Hydrofluoric Acid at Distinct Concentrations. Brazilian Dental Journal, 2018, 29, 492-499.	1.1	38
53	Effect of the bonding strategy on the tensile retention of full-contour zirconia crowns. International Journal of Adhesion and Adhesives, 2018, 85, 106-112.	2.9	1
54	How does hydrofluoric acid etching affect the cyclic load-to-failure of lithium disilicate restorations?. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 87, 306-311.	3.1	24

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55	Hydrofluoric acid concentrations: Effect on the cyclic load-to-failure of machined lithium disilicate restorations. Dental Materials, 2018, 34, e255-e263.	3.5	36
56	Effects of Simulated Gastric Juice on CAD/CAM Resin Compositesâ€"Morphological and Mechanical Evaluations. Journal of Prosthodontics, 2017, 26, 424-431.	3.7	29
57	Effect of etching with distinct hydrofluoric acid concentrations on the flexural strength of a lithium disilicateâ€based glass ceramic. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 885-891.	3.4	40
58	The Effect of Polymerization Methods and Fiber Types on the Mechanical Behavior of Fiberâ€Reinforced Resinâ€Based Composites. Journal of Prosthodontics, 2017, 26, 230-237.	3.7	7
59	Bonding strategies to full-contour zirconia: Zirconia pretreatment with piranha solution, glaze and airborne-particle abrasion. International Journal of Adhesion and Adhesives, 2017, 77, 151-156.	2.9	7
60	Advanced Scaffolds for Dental Pulp and Periodontal Regeneration. Dental Clinics of North America, 2017, 61, 689-711.	1.8	80
61	Recent Advances in Adhesive Bonding: The Role of Biomolecules, Nanocompounds, and Bonding Strategies in Enhancing Resin Bonding to Dental Substrates. Current Oral Health Reports, 2017, 4, 215-227.	1.6	32
62	Antimicrobial Efficacy of Triple Antibioticâ€"eluting Polymer Nanofibers against Multispecies Biofilm. Journal of Endodontics, 2017, 43, S51-S56.	3.1	35
63	Novel bioactive tetracycline-containing electrospun polymer fibers as a potential antibacterial dental implant coating. Odontology / the Society of the Nippon Dental University, 2017, 105, 354-363.	1.9	50
64	Tetracycline-incorporated polymer nanofibers as a potential dental implant surface modifier. , 2017, 105, 2085-2092.		33
65	Effects of air-abrasion pressure on the resin bond strength to zirconia: a combined cyclic loading and thermocycling aging study. Restorative Dentistry & Endodontics, 2017, 42, 206.	1.5	13
66	Can Cleansing Regimens Effectively Eliminate Saliva Contamination from Lithium Disilicate Ceramic Surface?. European journal of prosthodontics and restorative dentistry, The, 2017, 25, 9-14.	0.4	4
67	Cleaning Methods for Zirconia Following Salivary Contamination. Journal of Prosthodontics, 2016, 25, 375-379.	3.7	42
68	Dimensionally stable and bioactive membrane for guided bone regeneration: An in vitro study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 594-605.	3.4	30
69	Clinical Perspective of Electrospun Nanofibers as a Drug Delivery Strategy for Regenerative Endodontics. Current Oral Health Reports, 2016, 3, 209-220.	1.6	13
70	Stain removal effect of novel papain- and bromelain-containing gels applied to enamel. Clinical Oral Investigations, 2016, 20, 2315-2320.	3.0	21
71	Triple Antibiotic Polymer Nanofibers for Intracanal Drug Delivery: Effects on Dual Species Biofilm and Cell Function. Journal of Endodontics, 2016, 42, 1490-1495.	3.1	44
72	Nanofibers for Regenerative Dentistry: From Scaffolds to Drug Delivery Systems. Microscopy and Microanalysis, 2016, 22, 996-997.	0.4	1

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73	Synthesis and characterization of CaO-loaded electrospun matrices for bone tissue engineering. Clinical Oral Investigations, 2016, 20, 1921-1933.	3.0	41
74	Effects of Novel 3-dimensional Antibiotic-containing Electrospun Scaffolds on Dentin Discoloration. Journal of Endodontics, 2016, 42, 106-112.	3.1	43
75	Antibacterial TAP-mimic electrospun polymer scaffold: effects on P. gingivalis-infected dentin biofilm. Clinical Oral Investigations, 2016, 20, 387-393.	3.0	28
76	Dental pulp stem cell responses to novel antibioticâ€containing scaffolds for regenerative endodontics. International Endodontic Journal, 2015, 48, 1147-1156.	5.0	44
77	The Axolotl Fibula as a Model for the Induction of Regeneration across Large Segment Defects in Long Bones of the Extremities. PLoS ONE, 2015, 10, e0130819.	2.5	7
78	Effects of ciprofloxacin-containing antimicrobial scaffolds on dental pulp stem cell viabilityâ€"In vitro studies. Archives of Oral Biology, 2015, 60, 1131-1137.	1.8	33
79	Effect of Ceramic Etching Protocols on Resin Bond Strength to a Feldspar Ceramic. Operative Dentistry, 2015, 40, E40-E46.	1.2	19
80	Bonding Ability of Paste-Paste Glass Ionomer Systems to Tooth Structure: In Vitro Studies. Operative Dentistry, 2015, 40, 304-312.	1.2	9
81	Halloysite nanotube incorporation into adhesive systemsâ€"effect on bond strength to human dentin. Clinical Oral Investigations, 2015, 19, 1905-1912.	3.0	19
82	Effects of Ciprofloxacin-containing Scaffolds onÂEnterococcus faecalis Biofilms. Journal of Endodontics, 2015, 41, 710-714.	3.1	46
83	Effect of low-temperature aging on the mechanical behavior of ground Y-TZP. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 45, 183-192.	3.1	61
84	Physicomechanical and antibacterial properties of experimental resinâ€based dental sealants modified with nylonâ€6 and chitosan nanofibers. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1560-1568.	3.4	26
85	Membranes for Periodontal Regeneration - A Materials Perspective. Frontiers of Oral Biology, 2015, 17, 90-100.	1.5	64
86	Development and characterization of novel ZnO-loaded electrospun membranes for periodontal regeneration. Dental Materials, 2015, 31, 1038-1051.	3.5	115
87	Antimicrobial Effects of Novel Triple Antibiotic Pasteâ€"Mimic Scaffolds on Actinomyces naeslundii Biofilm. Journal of Endodontics, 2015, 41, 1337-1343.	3.1	47
88	Influence of hydrofluoric acid concentration on the flexural strength of a feldspathic ceramic. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 48, 241-248.	3.1	27
89	Effect of random/aligned nylon-6/MWCNT fibers on dental resin composite reinforcement. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 48, 134-144.	3.1	49
90	Synthesis and characterization of novel halloysite-incorporated adhesive resins. Journal of Dentistry, 2015, 43, 1316-1322.	4.1	20

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91	A novel three-dimensional scaffold for regenerative endodontics: materials and biological characterizations. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, E116-E123.	2.7	77
92	Effect of Cleansing Methods on Saliva-Contaminated Zirconiaâ€"An Evaluation of Resin Bond Durability. Operative Dentistry, 2015, 40, 163-171.	1.2	49
93	Doxycycline-Encapsulated Nanotube-Modified Dentin Adhesives. Journal of Dental Research, 2014, 93, 1270-1276.	5.2	52
94	Stem Cellâ€"Derived Tissueâ€"Engineered Constructs for Hemilaryngeal Reconstruction. Annals of Otology, Rhinology and Laryngology, 2014, 123, 124-134.	1.1	7
95	Biodegradable nanofibrous drug delivery systems: effects of metronidazole and ciprofloxacin on periodontopathogens and commensal oral bacteria. Clinical Oral Investigations, 2014, 18, 2151-2158.	3.0	67
96	Influence of zirconia surface treatment on veneering porcelain shear bond strength after cyclic loading. Journal of Prosthetic Dentistry, 2014, 112, 1392-1398.	2.8	20
97	Bimix Antimicrobial Scaffolds for Regenerative Endodontics. Journal of Endodontics, 2014, 40, 1879-1884.	3.1	59
98	Tissue-engineering-based Strategies for Regenerative Endodontics. Journal of Dental Research, 2014, 93, 1222-1231.	5.2	189
99	Impact of Quantity of Resin, C-factor, and Geometry on Resin Composite Polymerization Shrinkage Stress in Class V Restorations. Operative Dentistry, 2014, 39, 144-151.	1.2	32
100	Antimicrobial Effects of Drug-Containing Electrospun Matrices on Osteomyelitis-Associated Pathogens. Journal of Oral and Maxillofacial Surgery, 2014, 72, 1310-1319.	1.2	18
101	Influence of Fullâ€Contour Zirconia Surface Roughness on Wear of Glassâ€Ceramics. Journal of Prosthodontics, 2014, 23, 198-205.	3.7	31
102	The impact of hydrofluoric acid etching followed by unfilled resin on the biaxial strength of a glass-ceramic. Dental Materials, 2013, 29, e281-e290.	3.5	36
103	Nanotube-modified dentin adhesiveâ€"Physicochemical and dentin bonding characterizations. Dental Materials, 2013, 29, 1158-1165.	3.5	32
104	Full-contour Y-TZP ceramic surface roughness effect on synthetic hydroxyapatite wear. Dental Materials, 2013, 29, 666-673.	3.5	66
105	Bioactive Nanofibrous Scaffolds for Regenerative Endodontics. Journal of Dental Research, 2013, 92, 963-969.	5.2	137
106	Recent advances in the development of GTR/GBR membranes for periodontal regenerationâ€"A materials perspective. Dental Materials, 2012, 28, 703-721.	3.5	555
107	A novel spatially designed and functionally graded electrospun membrane for periodontal regeneration. Acta Biomaterialia, 2011, 7, 216-224.	8.3	202
108	Acellular dermal matrix graft: Synergistic effect of rehydration and natural crosslinking on mechanical properties. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 95B, 276-282.	3.4	28

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109	Nanoparticle-based Calcium Phosphate Substrates: Gas Phase Synthesis and Potential Applications. Materials Research Society Symposia Proceedings, 2009, 1236, 1.	0.1	0
110	Freeze-dried acellular dermal matrix graft: Effects of rehydration on physical, chemical, and mechanical properties. Dental Materials, 2009, 25, 1109-1115.	3.5	53
111	Processing, characterization, and in vitro / in vivo evaluations of powder metallurgy processed Tiâ€13Nbâ€13Zr alloys. Journal of Biomedical Materials Research - Part A, 2009, 88A, 689-696.	4.0	33
112	Low-level laser therapy for pain caused by placement of the first orthodontic archwire: AÂrandomized clinical trial. American Journal of Orthodontics and Dentofacial Orthopedics, 2009, 136, 662-667.	1.7	128
113	Histomorphologic evaluation of Tiâ€“13Nbâ€“13Zr alloys processed via powder metallurgy. A study in rabbits. Materials Science and Engineering C, 2008, 28, 223-227.	7.3	16
114	In vitro apatite formation on chemically treated (P/M) Tiâ€“13Nbâ€“13Zr. Dental Materials, 2008, 24, 50-56.	3.5	42
115	Y-TZP ceramic processing from coprecipitated powders: A comparative study with three commercial dental ceramics. Dental Materials, 2008, 24, 1676-1685.	3.5	63
116	Micro-morphological changes prior to adhesive bonding: high-alumina and glassy-matrix ceramics. Brazilian Oral Research, 2008, 22, 158-163.	1.4	16
117	Polishing methods of an alumina-reinforced feldspar ceramic. Brazilian Dental Journal, 2006, 17, 285-289.	1.1	29
118	Bond strength of a resin cement to high-alumina and zirconia-reinforced ceramics: the effect of surface conditioning. Journal of Adhesive Dentistry, 2006, 8, 175-81.	0.5	88
119	A comparison of microhardness of indirect composite restorative materials. Journal of Applied Oral Science, 2003, 11, 157-161.	1.8	10