

Marco Cicero Bottino

List of Publications by Year in descending order

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119
papers

4,617
citations

94433

37
h-index

123424

61
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121
all docs

121
docs citations

121
times ranked

4639
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in the development of GTR/GBR membranes for periodontal regeneration—A materials perspective. <i>Dental Materials</i> , 2012, 28, 703-721.	3.5	555
2	A novel spatially designed and functionally graded electrospun membrane for periodontal regeneration. <i>Acta Biomaterialia</i> , 2011, 7, 216-224.	8.3	202
3	Tissue-engineering-based Strategies for Regenerative Endodontics. <i>Journal of Dental Research</i> , 2014, 93, 1222-1231.	5.2	189
4	Bioactive Nanofibrous Scaffolds for Regenerative Endodontics. <i>Journal of Dental Research</i> , 2013, 92, 963-969.	5.2	137
5	Low-level laser therapy for pain caused by placement of the first orthodontic archwire: A randomized clinical trial. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2009, 136, 662-667.	1.7	128
6	Development and characterization of novel ZnO-loaded electrospun membranes for periodontal regeneration. <i>Dental Materials</i> , 2015, 31, 1038-1051.	3.5	115
7	Bond strength of a resin cement to high-alumina and zirconia-reinforced ceramics: the effect of surface conditioning. <i>Journal of Adhesive Dentistry</i> , 2006, 8, 175-81.	0.5	88
8	Advanced Scaffolds for Dental Pulp and Periodontal Regeneration. <i>Dental Clinics of North America</i> , 2017, 61, 689-711.	1.8	80
9	Extracellular Matrix/Amorphous Magnesium Phosphate Bioink for 3D Bioprinting of Craniomaxillofacial Bone Tissue. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23752-23763.	8.0	79
10	A novel three-dimensional scaffold for regenerative endodontics: materials and biological characterizations. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, E116-E123.	2.7	77
11	Highly tunable bioactive fiber-reinforced hydrogel for guided bone regeneration. <i>Acta Biomaterialia</i> , 2020, 113, 164-176.	8.3	77
12	Injectable MMP-Responsive Nanotube-Modified Gelatin Hydrogel for Dental Infection Ablation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16006-16017.	8.0	69
13	Biodegradable nanofibrous drug delivery systems: effects of metronidazole and ciprofloxacin on periodontopathogens and commensal oral bacteria. <i>Clinical Oral Investigations</i> , 2014, 18, 2151-2158.	3.0	67
14	Clindamycin-modified Triple Antibiotic Nanofibers: A Stain-free Antimicrobial Intracanal Drug Delivery System. <i>Journal of Endodontics</i> , 2018, 44, 155-162.	3.1	67
15	Full-contour Y-TZP ceramic surface roughness effect on synthetic hydroxyapatite wear. <i>Dental Materials</i> , 2013, 29, 666-673.	3.5	66
16	Membranes for Periodontal Regeneration - A Materials Perspective. <i>Frontiers of Oral Biology</i> , 2015, 17, 90-100.	1.5	64
17	Y-TZP ceramic processing from coprecipitated powders: A comparative study with three commercial dental ceramics. <i>Dental Materials</i> , 2008, 24, 1676-1685.	3.5	63
18	Effect of low-temperature aging on the mechanical behavior of ground Y-TZP. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 45, 183-192.	3.1	61

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19	Bimix Antimicrobial Scaffolds for Regenerative Endodontics. <i>Journal of Endodontics</i> , 2014, 40, 1879-1884.	3.1	59
20	Freeze-dried acellular dermal matrix graft: Effects of rehydration on physical, chemical, and mechanical properties. <i>Dental Materials</i> , 2009, 25, 1109-1115.	3.5	53
21	Doxycycline-Encapsulated Nanotube-Modified Dentin Adhesives. <i>Journal of Dental Research</i> , 2014, 93, 1270-1276.	5.2	52
22	Novel bioactive tetracycline-containing electrospun polymer fibers as a potential antibacterial dental implant coating. <i>Odontology / the Society of the Nippon Dental University</i> , 2017, 105, 354-363.	1.9	50
23	Effect of random/aligned nylon-6/MWCNT fibers on dental resin composite reinforcement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 48, 134-144.	3.1	49
24	Effect of Cleansing Methods on Saliva-Contaminated Zirconia-Containing Resin Bond Durability. <i>Operative Dentistry</i> , 2015, 40, 163-171.	1.2	49
25	Hybrid Antimicrobial Hydrogel as Injectable Therapeutics for Oral Infection Ablation. <i>Biomacromolecules</i> , 2020, 21, 3945-3956.	5.4	49
26	Antimicrobial Effects of Novel Triple Antibiotic Paste-Containing Mimic Scaffolds on <i>Actinomyces naeslundii</i> Biofilm. <i>Journal of Endodontics</i> , 2015, 41, 1337-1343.	3.1	47
27	Effects of Ciprofloxacin-containing Scaffolds on <i>Enterococcus faecalis</i> Biofilms. <i>Journal of Endodontics</i> , 2015, 41, 710-714.	3.1	46
28	Animal Models for Stem Cell-Based Pulp Regeneration: Foundation for Human Clinical Applications. <i>Tissue Engineering - Part B: Reviews</i> , 2019, 25, 100-113.	4.8	46
29	Dental pulp stem cell responses to novel antibiotic-containing scaffolds for regenerative endodontics. <i>International Endodontic Journal</i> , 2015, 48, 1147-1156.	5.0	44
30	Triple Antibiotic Polymer Nanofibers for Intracanal Drug Delivery: Effects on Dual Species Biofilm and Cell Function. <i>Journal of Endodontics</i> , 2016, 42, 1490-1495.	3.1	44
31	Effects of Novel 3-dimensional Antibiotic-containing Electrospun Scaffolds on Dentin Discoloration. <i>Journal of Endodontics</i> , 2016, 42, 106-112.	3.1	43
32	In vitro apatite formation on chemically treated (P/M) Ti-13Nb-13Zr. <i>Dental Materials</i> , 2008, 24, 50-56.	3.5	42
33	Cleaning Methods for Zirconia Following Salivary Contamination. <i>Journal of Prosthodontics</i> , 2016, 25, 375-379.	3.7	42
34	Comparison of Internal Adaptation of Bulk-fill and Increment-fill Resin Composite Materials. <i>Operative Dentistry</i> , 2019, 44, E32-E44.	1.2	42
35	Electrospinning of dexamethasone/cyclodextrin inclusion complex polymer fibers for dental pulp therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 191, 111011.	5.0	42
36	Bioactive amorphous magnesium phosphate-polyetheretherketone composite filaments for 3D printing. <i>Dental Materials</i> , 2020, 36, 865-883.	3.5	42

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37	Synthesis and characterization of CaO-loaded electrospun matrices for bone tissue engineering. <i>Clinical Oral Investigations</i> , 2016, 20, 1921-1933.	3.0	41
38	Effect of etching with distinct hydrofluoric acid concentrations on the flexural strength of a lithium disilicate-based glass ceramic. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 885-891.	3.4	40
39	Adhesion to a Lithium Disilicate Glass Ceramic Etched with Hydrofluoric Acid at Distinct Concentrations. <i>Brazilian Dental Journal</i> , 2018, 29, 492-499.	1.1	38
40	The impact of hydrofluoric acid etching followed by unfilled resin on the biaxial strength of a glass-ceramic. <i>Dental Materials</i> , 2013, 29, e281-e290.	3.5	36
41	Hydrofluoric acid concentrations: Effect on the cyclic load-to-failure of machined lithium disilicate restorations. <i>Dental Materials</i> , 2018, 34, e255-e263.	3.5	36
42	A novel patient-specific three-dimensional drug delivery construct for regenerative endodontics. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1576-1586.	3.4	36
43	Antimicrobial Efficacy of Triple Antibiotic-eluting Polymer Nanofibers against Multispecies Biofilm. <i>Journal of Endodontics</i> , 2017, 43, S51-S56.	3.1	35
44	Processing, characterization, and in vitro / in vivo evaluations of powder metallurgy processed Ti-3Nb-13Zr alloys. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 689-696.	4.0	33
45	Effects of ciprofloxacin-containing antimicrobial scaffolds on dental pulp stem cell viability in vitro studies. <i>Archives of Oral Biology</i> , 2015, 60, 1131-1137.	1.8	33
46	Tetracycline-incorporated polymer nanofibers as a potential dental implant surface modifier. , 2017, 105, 2085-2092.		33
47	Injectable Highly Tunable Oligomeric Collagen Matrices for Dental Tissue Regeneration. <i>ACS Applied Bio Materials</i> , 2020, 3, 859-868.	4.6	33
48	Harnessing biomolecules for bioinspired dental biomaterials. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8713-8747.	5.8	33
49	Nanotube-modified dentin adhesive Physicochemical and dentin bonding characterizations. <i>Dental Materials</i> , 2013, 29, 1158-1165.	3.5	32
50	Impact of Quantity of Resin, C-factor, and Geometry on Resin Composite Polymerization Shrinkage Stress in Class V Restorations. <i>Operative Dentistry</i> , 2014, 39, 144-151.	1.2	32
51	Recent Advances in Adhesive Bonding: The Role of Biomolecules, Nanocompounds, and Bonding Strategies in Enhancing Resin Bonding to Dental Substrates. <i>Current Oral Health Reports</i> , 2017, 4, 215-227.	1.6	32
52	Doxycycline-loaded nanotube-modified adhesives inhibit MMP in a dose-dependent fashion. <i>Clinical Oral Investigations</i> , 2018, 22, 1243-1252.	3.0	32
53	A Highly Ordered, Nanostructured Fluorinated Ca-P-Coated Melt Electrowritten Scaffold for Periodontal Tissue Regeneration. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101152.	7.6	32
54	Influence of Full-Corner Zirconia Surface Roughness on Wear of Glass-Ceramics. <i>Journal of Prosthodontics</i> , 2014, 23, 198-205.	3.7	31

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55	Fabrication and evaluation of 3-D printed PEEK scaffolds containing Macropores by design. <i>Materials Letters</i> , 2020, 263, 127227.	2.6	31
56	Dimensionally stable and bioactive membrane for guided bone regeneration: An <i>in vitro</i> study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 594-605.	3.4	30
57	Effects of Simulated Gastric Juice on CAD/CAM Resin Composites—Morphological and Mechanical Evaluations. <i>Journal of Prosthodontics</i> , 2017, 26, 424-431.	3.7	29
58	Characterization of novel calcium hydroxide-mediated highly porous chitosan-calcium scaffolds for potential application in dentin tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2546-2559.	3.4	29
59	Metformin-loaded nanospheres-laden photocrosslinkable gelatin hydrogel for bone tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 116, 104293.	3.1	29
60	Polishing methods of an alumina-reinforced feldspar ceramic. <i>Brazilian Dental Journal</i> , 2006, 17, 285-289.	1.1	29
61	Acellular dermal matrix graft: Synergistic effect of rehydration and natural crosslinking on mechanical properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 95B, 276-282.	3.4	28
62	Antibacterial TAP-mimic electrospun polymer scaffold: effects on <i>P. gingivalis</i> -infected dentin biofilm. <i>Clinical Oral Investigations</i> , 2016, 20, 387-393.	3.0	28
63	Tissue-specific melt electrowritten polymeric scaffolds for coordinated regeneration of soft and hard periodontal tissues. <i>Bioactive Materials</i> , 2023, 19, 268-281.	15.6	28
64	Influence of hydrofluoric acid concentration on the flexural strength of a feldspathic ceramic. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 48, 241-248.	3.1	27
65	Physicomechanical and antibacterial properties of experimental resin-based dental sealants modified with nylon and chitosan nanofibers. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 1560-1568.	3.4	26
66	How does hydrofluoric acid etching affect the cyclic load-to-failure of lithium disilicate restorations?. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 87, 306-311.	3.1	24
67	Curcumin—A Natural Medicament for Root Canal Disinfection: Effects of Irrigation, Drug Release, and Photoactivation. <i>Journal of Endodontics</i> , 2019, 45, 1371-1377.	3.1	24
68	Antimicrobial Therapeutics in Regenerative Endodontics: A Scoping Review. <i>Journal of Endodontics</i> , 2020, 46, S115-S127.	3.1	24
69	Influence of finishing/polishing on the fatigue strength, surface topography, and roughness of an yttrium-stabilized tetragonal zirconia polycrystals subjected to grinding. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 93, 222-229.	3.1	23
70	Platform technologies for regenerative endodontics from multifunctional biomaterials to tooth-on-a-chip strategies. <i>Clinical Oral Investigations</i> , 2021, 25, 4749-4779.	3.0	23
71	Innovations in craniofacial bone and periodontal tissue engineering—from electrospinning to converged biofabrication. <i>International Materials Reviews</i> , 2022, 67, 347-384.	19.3	23
72	Three-dimensional printing of clinical scale and personalized calcium phosphate scaffolds for alveolar bone reconstruction. <i>Dental Materials</i> , 2022, 38, 529-539.	3.5	23

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73	Stain removal effect of novel papain- and bromelain-containing gels applied to enamel. <i>Clinical Oral Investigations</i> , 2016, 20, 2315-2320.	3.0	21
74	Interplay between toothbrush stiffness and dentifrice abrasivity on the development of non-carious cervical lesions. <i>Clinical Oral Investigations</i> , 2019, 23, 3551-3556.	3.0	21
75	Influence of zirconia surface treatment on veneering porcelain shear bond strength after cyclic loading. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 1392-1398.	2.8	20
76	Synthesis and characterization of novel halloysite-incorporated adhesive resins. <i>Journal of Dentistry</i> , 2015, 43, 1316-1322.	4.1	20
77	Effect of Ceramic Etching Protocols on Resin Bond Strength to a Feldspar Ceramic. <i>Operative Dentistry</i> , 2015, 40, E40-E46.	1.2	19
78	Halloysite nanotube incorporation into adhesive systemsâ€™ effect on bond strength to human dentin. <i>Clinical Oral Investigations</i> , 2015, 19, 1905-1912.	3.0	19
79	Development of an antibacterial and anti-metalloproteinase dental adhesive for long-lasting resin composite restorations. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10797-10811.	5.8	19
80	Antimicrobial Effects of Drug-Containing Electrospun Matrices on Osteomyelitis-Associated Pathogens. <i>Journal of Oral and Maxillofacial Surgery</i> , 2014, 72, 1310-1319.	1.2	18
81	Comparative Evaluation of the Cytotoxic and Angiogenic Effects of Minocycline and Clindamycin: An In Vitro Study. <i>Journal of Endodontics</i> , 2019, 45, 882-889.	3.1	18
82	Unveiling the potential of melt electrowriting in regenerative dental medicine. <i>Acta Biomaterialia</i> , 2023, 156, 88-109.	8.3	18
83	Low-fusing porcelain glaze application does not damage the fatigue strength of Y-TZP. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 99, 198-205.	3.1	17
84	Chlorhexidine-modified nanotubes and their effects on the polymerization and bonding performance of a dental adhesive. <i>Dental Materials</i> , 2020, 36, 687-697.	3.5	17
85	Histomorphologic evaluation of Ti-13Nb-13Zr alloys processed via powder metallurgy. A study in rabbits. <i>Materials Science and Engineering C</i> , 2008, 28, 223-227.	7.3	16
86	Micro-morphological changes prior to adhesive bonding: high-alumina and glassy-matrix ceramics. <i>Brazilian Oral Research</i> , 2008, 22, 158-163.	1.4	16
87	Injectable Multifunctional Drug Delivery System for Hard Tissue Regeneration under Inflammatory Microenvironments. <i>ACS Applied Bio Materials</i> , 2021, 4, 6993-7006.	4.6	16
88	Personalized and Defect-Specific Antibiotic-Laden Scaffolds for Periodontal Infection Ablation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49642-49657.	8.0	15
89	Engineering of Injectable Antibiotic-laden Fibrous Microparticles Gelatin Methacryloyl Hydrogel for Endodontic Infection Ablation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 971.	4.1	15
90	Do resin cement viscosity and ceramic surface etching influence the fatigue performance of bonded lithium disilicate glass-ceramic crowns?. <i>Dental Materials</i> , 2022, 38, e59-e67.	3.5	15

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91	Physicochemical and biological properties of novel chlorhexidine-loaded nanotube-modified dentin adhesive. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 868-875.	3.4	14
92	Clinical Perspective of Electrospun Nanofibers as a Drug Delivery Strategy for Regenerative Endodontics. <i>Current Oral Health Reports</i> , 2016, 3, 209-220.	1.6	13
93	Effects of air-abrasion pressure on the resin bond strength to zirconia: a combined cyclic loading and thermocycling aging study. <i>Restorative Dentistry & Endodontics</i> , 2017, 42, 206.	1.5	13
94	Fatigue Failure Load of Lithium Disilicate Restorations Cemented on a Chairside Titanium Base. <i>Journal of Prosthodontics</i> , 2019, 28, 973-981.	3.7	11
95	Incorporating N-acetylcysteine and tricalcium phosphate into epoxy resin-based sealer improved its biocompatibility and adhesiveness to radicular dentine. <i>Dental Materials</i> , 2019, 35, 1750-1756.	3.5	11
96	Influence of ethylenediaminetetraacetic acid on regenerative endodontics: A systematic review. <i>International Endodontic Journal</i> , 2022, 55, 579-612.	5.0	11
97	A comparison of microhardness of indirect composite restorative materials. <i>Journal of Applied Oral Science</i> , 2003, 11, 157-161.	1.8	10
98	Bonding Ability of Paste-Paste Glass Ionomer Systems to Tooth Structure: In Vitro Studies. <i>Operative Dentistry</i> , 2015, 40, 304-312.	1.2	9
99	Nanofibrous antibiotic-eluting matrices: Biocompatibility studies in a rat model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 306-315.	3.4	9
100	Stem Cell-Derived Tissue-Engineered Constructs for Hemilaryngeal Reconstruction. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2014, 123, 124-134.	1.1	7
101	The Axolotl Fibula as a Model for the Induction of Regeneration across Large Segment Defects in Long Bones of the Extremities. <i>PLoS ONE</i> , 2015, 10, e0130819.	2.5	7
102	The Effect of Polymerization Methods and Fiber Types on the Mechanical Behavior of Fiber-Reinforced Resin-Based Composites. <i>Journal of Prosthodontics</i> , 2017, 26, 230-237.	3.7	7
103	Bonding strategies to full-contour zirconia: Zirconia pretreatment with piranha solution, glaze and airborne-particle abrasion. <i>International Journal of Adhesion and Adhesives</i> , 2017, 77, 151-156.	2.9	7
104	Bond strength and durability of universal adhesive agents with lithium disilicate ceramics: A shear bond strength study. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 580-589.	2.6	6
105	The role of polymeric nanofibers on the mechanical behavior of polymethyl methacrylate resin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 112, 104072.	3.1	6
106	Development and properties of endodontic resin sealers with natural oils. <i>Journal of Dentistry</i> , 2021, 104, 103538.	4.1	5
107	The role of nanohydroxyapatite on the morphological, physical, and biological properties of chitosan nanofibers. <i>Clinical Oral Investigations</i> , 2021, 25, 3095-3103.	3.0	4
108	Alumina particle air-abrasion and aging effects: Fatigue behavior of CAD/CAM resin composite crowns and flexural strength evaluations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 121, 104592.	3.1	4

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109	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
110	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
111	Dental education 2026: A scenario exploration. Journal of Dental Education, 2022, 86, 343-351.	1.2	2
112	Nanofibers for Regenerative Dentistry: From Scaffolds to Drug Delivery Systems. Microscopy and Microanalysis, 2016, 22, 996-997.	0.4	1
113	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
114	Current and Future Views on Biomaterial Use in Regenerative Endodontics. , 2019, , 77-98.		1
115	Dental pulp tissue regeneration. , 2022, , 313-346.		1
116	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
117	Scenario IV: Underâ€resourced but resilient and transformative. Journal of Dental Education, 2022, 86, 364-367.	1.2	1
118	Nanoparticle-based Calcium Phosphate Substrates: Gas Phase Synthesis and Potential Applications. Materials Research Society Symposia Proceedings, 2009, 1236, 1.	0.1	0
119	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