

Michael D Weir

List of Publications by Year in descending order

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249
papers

11,778
citations

22099

59
h-index

43802

91
g-index

251
all docs

251
docs citations

251
times ranked

8723
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | An injectable calcium phosphate-alginate hydrogel-umbilical cord mesenchymal stem cell paste for bone tissue engineering. <i>Biomaterials</i> , 2010, 31, 6502-6510. | 5.7 | 294 |
| 2 | Antibacterial amorphous calcium phosphate nanocomposites with a quaternary ammonium dimethacrylate and silver nanoparticles. <i>Dental Materials</i> , 2012, 28, 561-572. | 1.6 | 286 |
| 3 | Calcium phosphate cements for bone engineering and their biological properties. <i>Bone Research</i> , 2017, 5, 17056. | 5.4 | 277 |
| 4 | Bone tissue engineering via nanostructured calcium phosphate biomaterials and stem cells. <i>Bone Research</i> , 2014, 2, 14017. | 5.4 | 274 |
| 5 | Advanced smart biomaterials and constructs for hard tissue engineering and regeneration. <i>Bone Research</i> , 2018, 6, 31. | 5.4 | 206 |
| 6 | Injectable and macroporous calcium phosphate cement scaffold. <i>Biomaterials</i> , 2006, 27, 4279-4287. | 5.7 | 199 |
| 7 | Magnetic field and nano-scaffolds with stem cells to enhance bone regeneration. <i>Biomaterials</i> , 2018, 183, 151-170. | 5.7 | 198 |
| 8 | Novel dental adhesives containing nanoparticles of silver and amorphous calcium phosphate. <i>Dental Materials</i> , 2013, 29, 199-210. | 1.6 | 192 |
| 9 | Surface treatments on titanium implants via nanostructured ceria for antibacterial and anti-inflammatory capabilities. <i>Acta Biomaterialia</i> , 2019, 94, 627-643. | 4.1 | 153 |
| 10 | Comparison of quaternary ammonium-containing with nano-silver-containing adhesive in antibacterial properties and cytotoxicity. <i>Dental Materials</i> , 2013, 29, 450-461. | 1.6 | 151 |
| 11 | Periodontal Bone-Ligament-Cementum Regeneration via Scaffolds and Stem Cells. <i>Cells</i> , 2019, 8, 537. | 1.8 | 144 |
| 12 | Effect of quaternary ammonium and silver nanoparticle-containing adhesives on dentin bond strength and dental plaque microcosm biofilms. <i>Dental Materials</i> , 2012, 28, 842-852. | 1.6 | 142 |
| 13 | Dental primer and adhesive containing a new antibacterial quaternary ammonium monomer dimethylaminododecyl methacrylate. <i>Journal of Dentistry</i> , 2013, 41, 345-355. | 1.7 | 138 |
| 14 | Umbilical cord and bone marrow mesenchymal stem cell seeding on macroporous calcium phosphate for bone regeneration in rat cranial defects. <i>Biomaterials</i> , 2013, 34, 9917-9925. | 5.7 | 137 |
| 15 | Antibacterial and physical properties of calcium phosphate and calcium fluoride nanocomposites with chlorhexidine. <i>Dental Materials</i> , 2012, 28, 573-583. | 1.6 | 136 |
| 16 | Nanotechnology strategies for antibacterial and remineralizing composites and adhesives to tackle dental caries. <i>Nanomedicine</i> , 2015, 10, 627-641. | 1.7 | 134 |
| 17 | Novel calcium phosphate nanocomposite with caries-inhibition in a human in situ model. <i>Dental Materials</i> , 2013, 29, 231-240. | 1.6 | 131 |
| 18 | Novel dental adhesive containing antibacterial agents and calcium phosphate nanoparticles. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 620-629. | 1.6 | 127 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Nanocomposites with Ca and PO ₄ release: Effects of reinforcement, dicalcium phosphate particle size and silanization†. <i>Dental Materials</i> , 2007, 23, 1482-1491. | 1.6 | 126 |
| 20 | Injectable and strong nano-apatite scaffolds for cell/growth factor delivery and bone regeneration. <i>Dental Materials</i> , 2008, 24, 1212-1222. | 1.6 | 117 |
| 21 | Bone tissue engineering via human induced pluripotent, umbilical cord and bone marrow mesenchymal stem cells in rat cranium. <i>Acta Biomaterialia</i> , 2015, 18, 236-248. | 4.1 | 116 |
| 22 | Effect of salivary pellicle on antibacterial activity of novel antibacterial dental adhesives using a dental plaque microcosm biofilm model. <i>Dental Materials</i> , 2014, 30, 182-191. | 1.6 | 109 |
| 23 | Toward dental caries: Exploring nanoparticle-based platforms and calcium phosphate compounds for dental restorative materials. <i>Bioactive Materials</i> , 2019, 4, 43-55. | 8.6 | 109 |
| 24 | Synthesis of new antibacterial quaternary ammonium monomer for incorporation into CaP nanocomposite. <i>Dental Materials</i> , 2013, 29, 859-870. | 1.6 | 108 |
| 25 | Antibacterial activity and ion release of bonding agent containing amorphous calcium phosphate nanoparticles. <i>Dental Materials</i> , 2014, 30, 891-901. | 1.6 | 106 |
| 26 | Effect of amorphous calcium phosphate and silver nanocomposites on dental plaque microcosm biofilms. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 1378-1386. | 1.6 | 101 |
| 27 | Human embryonic stem cell encapsulation in alginate microbeads in macroporous calcium phosphate cement for bone tissue engineering. <i>Acta Biomaterialia</i> , 2012, 8, 3436-3445. | 4.1 | 100 |
| 28 | Effect of water-ageing on dentine bond strength and anti-biofilm activity of bonding agent containing new monomer dimethylaminododecyl methacrylate. <i>Journal of Dentistry</i> , 2013, 41, 504-513. | 1.7 | 100 |
| 29 | Human Induced Pluripotent Stem Cell-Derived Mesenchymal Stem Cell Seeding on Calcium Phosphate Scaffold for Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2014, 20, 1295-1305. | 1.6 | 100 |
| 30 | Development of novel self-healing and antibacterial dental composite containing calcium phosphate nanoparticles. <i>Journal of Dentistry</i> , 2015, 43, 317-326. | 1.7 | 100 |
| 31 | Effects of antibacterial primers with quaternary ammonium and nano-silver on <i>Streptococcus mutans</i> impregnated in human dentin blocks. <i>Dental Materials</i> , 2013, 29, 462-472. | 1.6 | 99 |
| 32 | <p>Novel nanomaterial-based antibacterial photodynamic therapies to combat oral bacterial biofilms and infectious diseases</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 6937-6956. | 3.3 | 99 |
| 33 | Human umbilical cord stem cell encapsulation in calcium phosphate scaffolds for bone engineering. <i>Biomaterials</i> , 2010, 31, 3848-3857. | 5.7 | 98 |
| 34 | Novel rechargeable calcium phosphate dental nanocomposite. <i>Dental Materials</i> , 2016, 32, 285-293. | 1.6 | 96 |
| 35 | Dental plaque microcosm response to bonding agents containing quaternary ammonium methacrylates with different chain lengths and charge densities. <i>Journal of Dentistry</i> , 2013, 41, 1122-1131. | 1.7 | 95 |
| 36 | Effect of charge density of bonding agent containing a new quaternary ammonium methacrylate on antibacterial and bonding properties. <i>Dental Materials</i> , 2014, 30, 433-441. | 1.6 | 94 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Injectable and rapid-setting calcium phosphate bone cement with dicalcium phosphate dihydrate. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 77B, 126-134. | 1.6 | 90 |
| 38 | Calcium and phosphate ion releasing composite: Effect of pH on release and mechanical properties. <i>Dental Materials</i> , 2009, 25, 535-542. | 1.6 | 88 |
| 39 | Osteoblastic induction on calcium phosphate cement-chitosan constructs for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 223-233. | 2.1 | 81 |
| 40 | Effect of Cell Seeding Density on Proliferation and Osteodifferentiation of Umbilical Cord Stem Cells on Calcium Phosphate Cement-Fiber Scaffold. <i>Tissue Engineering - Part A</i> , 2011, 17, 2603-2613. | 1.6 | 81 |
| 41 | Protein-repellent and antibacterial dental composite to inhibit biofilms and caries. <i>Journal of Dentistry</i> , 2015, 43, 225-234. | 1.7 | 81 |
| 42 | Human bone marrow stem cell-encapsulating calcium phosphate scaffolds for bone repair. <i>Acta Biomaterialia</i> , 2010, 6, 4118-4126. | 4.1 | 80 |
| 43 | Self-setting collagen-calcium phosphate bone cement: Mechanical and cellular properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 605-613. | 2.1 | 79 |
| 44 | Development of a multifunctional adhesive system for prevention of root caries and secondary caries. <i>Dental Materials</i> , 2015, 31, 1119-1131. | 1.6 | 77 |
| 45 | One-year water-ageing of calcium phosphate composite containing nano-silver and quaternary ammonium to inhibit biofilms. <i>International Journal of Oral Science</i> , 2016, 8, 172-181. | 3.6 | 76 |
| 46 | Evaluation of antibacterial and remineralizing nanocomposite and adhesive in rat tooth cavity model. <i>Acta Biomaterialia</i> , 2014, 10, 2804-2813. | 4.1 | 75 |
| 47 | Effects of quaternary ammonium chain length on the antibacterial and remineralizing effects of a calcium phosphate nanocomposite. <i>International Journal of Oral Science</i> , 2016, 8, 45-53. | 3.6 | 75 |
| 48 | Umbilical cord stem cells released from alginate-fibrin microbeads inside macroporous and biofunctionalized calcium phosphate cement for bone regeneration. <i>Acta Biomaterialia</i> , 2012, 8, 2297-2306. | 4.1 | 74 |
| 49 | Nanocomposite containing CaF ₂ nanoparticles: Thermal cycling, wear and long-term water-aging. <i>Dental Materials</i> , 2012, 28, 642-652. | 1.6 | 71 |
| 50 | A self-setting iPSMSC-alginate-calcium phosphate paste for bone tissue engineering. <i>Dental Materials</i> , 2016, 32, 252-263. | 1.6 | 70 |
| 51 | Strong calcium phosphate cement-chitosan-mesh construct containing cell-encapsulating hydrogel beads for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 77A, 487-496. | 2.1 | 68 |
| 52 | Dental plaque microcosm biofilm behavior on calcium phosphate nanocomposite with quaternary ammonium. <i>Dental Materials</i> , 2012, 28, 853-862. | 1.6 | 68 |
| 53 | Rechargeable dental adhesive with calcium phosphate nanoparticles for long-term ion release. <i>Journal of Dentistry</i> , 2015, 43, 1587-1595. | 1.7 | 68 |
| 54 | Human Embryonic Stem Cell-Derived Mesenchymal Stem Cell Seeding on Calcium Phosphate Cement-Chitosan-RGD Scaffold for Bone Repair. <i>Tissue Engineering - Part A</i> , 2013, 19, 915-927. | 1.6 | 67 |

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|----|---|-----|-----------|
| 55 | Effect of calcium phosphate nanocomposite on in vitro remineralization of human dentin lesions. <i>Dental Materials</i> , 2017, 33, 1033-1044. | 1.6 | 67 |
| 56 | Gas-Foaming Calcium Phosphate Cement Scaffold Encapsulating Human Umbilical Cord Stem Cells. <i>Tissue Engineering - Part A</i> , 2012, 18, 816-827. | 1.6 | 65 |
| 57 | Evaluation of three-dimensional biofilms on antibacterial bonding agents containing novel quaternary ammonium methacrylates. <i>International Journal of Oral Science</i> , 2014, 6, 77-86. | 3.6 | 64 |
| 58 | Novel rechargeable calcium phosphate nanocomposite with antibacterial activity to suppress biofilm acids and dental caries. <i>Journal of Dentistry</i> , 2018, 72, 44-52. | 1.7 | 64 |
| 59 | Human umbilical cord stem cell encapsulation in novel macroporous and injectable fibrin for muscle tissue engineering. <i>Acta Biomaterialia</i> , 2013, 9, 4688-4697. | 4.1 | 63 |
| 60 | Effects of electrospun submicron fibers in calcium phosphate cement scaffold on mechanical properties and osteogenic differentiation of umbilical cord stem cells. <i>Acta Biomaterialia</i> , 2011, 7, 4037-4044. | 4.1 | 61 |
| 61 | Gold nanoparticles in injectable calcium phosphate cement enhance osteogenic differentiation of human dental pulp stem cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 35-45. | 1.7 | 61 |
| 62 | Novel magnetic calcium phosphate-stem cell construct with magnetic field enhances osteogenic differentiation and bone tissue engineering. <i>Materials Science and Engineering C</i> , 2019, 98, 30-41. | 3.8 | 60 |
| 63 | Review on Development and Dental Applications of Polyetheretherketone-Based Biomaterials and Restorations. <i>Materials</i> , 2021, 14, 408. | 1.3 | 60 |
| 64 | Time-kill behaviour against eight bacterial species and cytotoxicity of antibacterial monomers. <i>Journal of Dentistry</i> , 2013, 41, 881-891. | 1.7 | 59 |
| 65 | Designing Multiagent Dental Materials for Enhanced Resistance to Biofilm Damage at the Bonded Interface. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11779-11787. | 4.0 | 59 |
| 66 | Antibacterial Effect of Dental Adhesive Containing Dimethylaminododecyl Methacrylate on the Development of <i>Streptococcus mutans</i> Biofilm. <i>International Journal of Molecular Sciences</i> , 2014, 15, 12791-12806. | 1.8 | 58 |
| 67 | Novel antibacterial orthodontic cement containing quaternary ammonium monomer dimethylaminododecyl methacrylate. <i>Journal of Dentistry</i> , 2014, 42, 1193-1201. | 1.7 | 58 |
| 68 | Effect of anti-biofilm glass-ionomer cement on <i>Streptococcus mutans</i> biofilms. <i>International Journal of Oral Science</i> , 2016, 8, 76-83. | 3.6 | 58 |
| 69 | Novel self-healing dental resin with microcapsules of polymerizable triethylene glycol dimethacrylate and N,N-dihydroxyethyl-p-toluidine. <i>Dental Materials</i> , 2016, 32, 294-304. | 1.6 | 58 |
| 70 | Do quaternary ammonium monomers induce drug resistance in cariogenic, endodontic and periodontal bacterial species?. <i>Dental Materials</i> , 2017, 33, 1127-1138. | 1.6 | 58 |
| 71 | Long-term mechanical durability of dental nanocomposites containing amorphous calcium phosphate nanoparticles. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 1264-1273. | 1.6 | 57 |
| 72 | Antibacterial and remineralizing orthodontic adhesive containing quaternary ammonium resin monomer and amorphous calcium phosphate nanoparticles. <i>Journal of Dentistry</i> , 2018, 72, 53-63. | 1.7 | 57 |

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|----|--|-----|-----------|
| 73 | A protein-repellent and antibacterial nanocomposite for Class-V restorations to inhibit periodontitis-related pathogens. <i>Materials Science and Engineering C</i> , 2016, 67, 702-710. | 3.8 | 55 |
| 74 | Development of novel dental adhesive with double benefits of protein-repellent and antibacterial capabilities. <i>Dental Materials</i> , 2015, 31, 845-854. | 1.6 | 54 |
| 75 | Novel dental composite with capability to suppress cariogenic species and promote non-cariogenic species in oral biofilms. <i>Materials Science and Engineering C</i> , 2019, 94, 587-596. | 3.8 | 54 |
| 76 | Dental remineralization via poly(amido amine) and restorative materials containing calcium phosphate nanoparticles. <i>International Journal of Oral Science</i> , 2019, 11, 15. | 3.6 | 52 |
| 77 | Novel Bioactive and Therapeutic Dental Polymeric Materials to Inhibit Periodontal Pathogens and Biofilms. <i>International Journal of Molecular Sciences</i> , 2019, 20, 278. | 1.8 | 52 |
| 78 | Human embryonic stem cells and macroporous calcium phosphate construct for bone regeneration in cranial defects in rats. <i>Acta Biomaterialia</i> , 2014, 10, 4484-4493. | 4.1 | 51 |
| 79 | Prevascularization of biofunctional calcium phosphate cement for dental and craniofacial repairs. <i>Dental Materials</i> , 2014, 30, 535-544. | 1.6 | 51 |
| 80 | Effects of water-aging on self-healing dental composite containing microcapsules. <i>Journal of Dentistry</i> , 2016, 47, 86-93. | 1.7 | 50 |
| 81 | Iron oxide nanoparticle-calcium phosphate cement enhanced the osteogenic activities of stem cells through WNT/ β^2 -catenin signaling. <i>Materials Science and Engineering C</i> , 2019, 104, 109955. | 3.8 | 50 |
| 82 | Inhibition of matrix metalloproteinase activity in human dentin via novel antibacterial monomer. <i>Dental Materials</i> , 2015, 31, 284-292. | 1.6 | 49 |
| 83 | Injectable calcium phosphate with hydrogel fibers encapsulating induced pluripotent, dental pulp and bone marrow stem cells for bone repair. <i>Materials Science and Engineering C</i> , 2016, 69, 1125-1136. | 3.8 | 48 |
| 84 | Two-staged time-dependent materials for the prevention of implant-related infections. <i>Acta Biomaterialia</i> , 2020, 101, 128-140. | 4.1 | 48 |
| 85 | Dentin remineralization in acid challenge environment via PAMAM and calcium phosphate composite. <i>Dental Materials</i> , 2016, 32, 1429-1440. | 1.6 | 47 |
| 86 | Novel nanotechnology and near-infrared photodynamic therapy to kill periodontitis-related biofilm pathogens and protect the periodontium. <i>Dental Materials</i> , 2019, 35, 1665-1681. | 1.6 | 46 |
| 87 | Novel dental adhesive with triple benefits of calcium phosphate recharge, protein-repellent and antibacterial functions. <i>Dental Materials</i> , 2017, 33, 553-563. | 1.6 | 43 |
| 88 | Effect of dimethylaminohexadecyl methacrylate mass fraction on fracture toughness and antibacterial properties of CaP nanocomposite. <i>Journal of Dentistry</i> , 2015, 43, 1539-1546. | 1.7 | 42 |
| 89 | Calcium phosphate cement scaffold with stem cell co-culture and prevascularization for dental and craniofacial bone tissue engineering. <i>Dental Materials</i> , 2019, 35, 1031-1041. | 1.6 | 42 |
| 90 | Bone regeneration via novel macroporous CPC scaffolds in critical-sized cranial defects in rats. <i>Dental Materials</i> , 2014, 30, e199-e207. | 1.6 | 41 |

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| 91 | Protein-repellent and antibacterial functions of a calcium phosphate rechargeable nanocomposite. <i>Journal of Dentistry</i> , 2016, 52, 15-22. | 1.7 | 41 |
| 92 | Engineering bone regeneration with novel cell-laden hydrogel microfiber-injectable calcium phosphate scaffold. <i>Materials Science and Engineering C</i> , 2017, 75, 895-905. | 3.8 | 41 |
| 93 | Stem cells in the periodontal ligament differentiated into osteogenic, fibrogenic and cementogenic lineages for the regeneration of the periodontal complex. <i>Journal of Dentistry</i> , 2020, 92, 103259. | 1.7 | 41 |
| 94 | How we are assessing the developing antibacterial resin-based dental materials? A scoping review. <i>Journal of Dentistry</i> , 2020, 99, 103369. | 1.7 | 41 |
| 95 | Anti-Caries Effects of Dental Adhesives Containing Quaternary Ammonium Methacrylates with Different Chain Lengths. <i>Materials</i> , 2017, 10, 643. | 1.3 | 40 |
| 96 | The anti-caries effects of dental adhesive resin influenced by the position of functional groups in quaternary ammonium monomers. <i>Dental Materials</i> , 2018, 34, 400-411. | 1.6 | 40 |
| 97 | Novel dental adhesive resin with crack self-healing, antimicrobial and remineralization properties. <i>Journal of Dentistry</i> , 2018, 75, 48-57. | 1.7 | 40 |
| 98 | Novel root canal sealer with dimethylaminohexadecyl methacrylate, nano-silver and nano-calcium phosphate to kill bacteria inside root dentin and increase dentin hardness. <i>Dental Materials</i> , 2019, 35, 1479-1489. | 1.6 | 40 |
| 99 | Osteogenic Media and rhBMP-2-Induced Differentiation of Umbilical Cord Mesenchymal Stem Cells Encapsulated in Alginate Microbeads and Integrated in an Injectable Calcium Phosphate-Chitosan Fibrous Scaffold. <i>Tissue Engineering - Part A</i> , 2011, 17, 969-979. | 1.6 | 39 |
| 100 | Do Dental Resin Composites Accumulate More Oral Biofilms and Plaque than Amalgam and Glass Ionomer Materials?. <i>Materials</i> , 2016, 9, 888. | 1.3 | 39 |
| 101 | Orthodontic cement with protein-repellent and antibacterial properties and the release of calcium and phosphate ions. <i>Journal of Dentistry</i> , 2016, 50, 51-59. | 1.7 | 39 |
| 102 | Emerging Contact-Killing Antibacterial Strategies for Developing Anti-Biofilm Dental Polymeric Restorative Materials. <i>Bioengineering</i> , 2020, 7, 83. | 1.6 | 39 |
| 103 | Poly (amido amine) and nano-calcium phosphate bonding agent to remineralize tooth dentin in cyclic artificial saliva/lactic acid. <i>Materials Science and Engineering C</i> , 2017, 72, 7-17. | 3.8 | 38 |
| 104 | Characterization of Interaction of Water in Epoxy by UV Reflection Spectroscopy. <i>Macromolecules</i> , 2001, 34, 4923-4926. | 2.2 | 37 |
| 105 | Antibacterial and protein-repellent orthodontic cement to combat biofilms and white spot lesions. <i>Journal of Dentistry</i> , 2015, 43, 1529-1538. | 1.7 | 37 |
| 106 | Novel pit and fissure sealant containing nano-CaF ₂ and dimethylaminohexadecyl methacrylate with double benefits of fluoride release and antibacterial function. <i>Dental Materials</i> , 2020, 36, 1241-1253. | 1.6 | 37 |
| 107 | Nanostructured Polymeric Materials with Protein-Repellent and Anti-Caries Properties for Dental Applications. <i>Nanomaterials</i> , 2018, 8, 393. | 1.9 | 36 |
| 108 | Novel CaF ₂ Nanocomposites with Antibacterial Function and Fluoride and Calcium Ion Release to Inhibit Oral Biofilm and Protect Teeth. <i>Journal of Functional Biomaterials</i> , 2020, 11, 56. | 1.8 | 36 |

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|-----|---|-----|-----------|
| 109 | Effect of Antimicrobial Denture Base Resin on Multi-Species Biofilm Formation. International Journal of Molecular Sciences, 2016, 17, 1033. | 1.8 | 35 |
| 110 | Effects of Long-Term Water-Aging on Novel Anti-Biofilm and Protein-Repellent Dental Composite. International Journal of Molecular Sciences, 2017, 18, 186. | 1.8 | 35 |
| 111 | Tuning Nano-Amorphous Calcium Phosphate Content in Novel Rechargeable Antibacterial Dental Sealant. Materials, 2018, 11, 1544. | 1.3 | 35 |
| 112 | Novel magnetic nanoparticle-containing adhesive with greater dentin bond strength and antibacterial and remineralizing capabilities. Dental Materials, 2018, 34, 1310-1322. | 1.6 | 35 |
| 113 | Dentin remineralization via adhesive containing amorphous calcium phosphate nanoparticles in a biofilm-challenged environment. Journal of Dentistry, 2019, 89, 103193. | 1.7 | 35 |
| 114 | Concentration dependence of quaternary ammonium monomer on the design of high-performance bioactive composite for root caries restorations. Dental Materials, 2020, 36, e266-e278. | 1.6 | 35 |
| 115 | Novel bioactive nanocomposite for Class-V restorations to inhibit periodontitis-related pathogens. Dental Materials, 2016, 32, e351-e361. | 1.6 | 34 |
| 116 | A Novel Dental Sealant Containing Dimethylaminohexadecyl Methacrylate Suppresses the Cariogenic Pathogenicity of Streptococcus mutans Biofilms. International Journal of Molecular Sciences, 2019, 20, 3491. | 1.8 | 34 |
| 117 | Bioactive Dental Composites and Bonding Agents Having Remineralizing and Antibacterial Characteristics. Dental Clinics of North America, 2017, 61, 669-687. | 0.8 | 33 |
| 118 | Biofunctionalized Calcium Phosphate Cement to Enhance the Attachment and Osteodifferentiation of Stem Cells Released from Fast-Degradable Alginate-Fibrin Microbeads. Tissue Engineering - Part A, 2012, 18, 1583-1595. | 1.6 | 32 |
| 119 | Bioactive low-shrinkage-stress nanocomposite suppresses S. mutans biofilm and preserves tooth dentin hardness. Acta Biomaterialia, 2020, 114, 146-157. | 4.1 | 32 |
| 120 | Novel Dental Adhesive with Biofilm-Regulating and Remineralization Capabilities. Materials, 2017, 10, 26. | 1.3 | 31 |
| 121 | Drug resistance of oral bacteria to new antibacterial dental monomer dimethylaminohexadecyl methacrylate. Scientific Reports, 2018, 8, 5509. | 1.6 | 31 |
| 122 | Antibacterial response of oral microcosm biofilm to nano-zinc oxide in adhesive resin. Dental Materials, 2021, 37, e182-e193. | 1.6 | 31 |
| 123 | High strength, <i>in situ</i> setting calcium phosphate composite with protein release. Journal of Biomedical Materials Research - Part A, 2008, 85A, 388-396. | 2.1 | 30 |
| 124 | Culture human mesenchymal stem cells with calcium phosphate cement scaffolds for bone repair. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 93B, 93-105. | 1.6 | 30 |
| 125 | Fast-Degradable Microbeads Encapsulating Human Umbilical Cord Stem Cells in Alginate for Muscle Tissue Engineering. Tissue Engineering - Part A, 2012, 18, 2303-2314. | 1.6 | 30 |
| 126 | Long-term dentin remineralization by poly(amido amine) and rechargeable calcium phosphate nanocomposite after fluid challenges. Dental Materials, 2018, 34, 607-618. | 1.6 | 30 |

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|-----|--|-----|-----------|
| 127 | Poly (amido amine) dendrimer and dental adhesive with calcium phosphate nanoparticles remineralized dentin in lactic acid. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 2414-2424. | 1.6 | 30 |
| 128 | Protein-repellent and antibacterial effects of a novel polymethyl methacrylate resin. <i>Journal of Dentistry</i> , 2018, 79, 39-45. | 1.7 | 30 |
| 129 | Protein-repelling adhesive resin containing calcium phosphate nanoparticles with repeated ion-recharge and re-releases. <i>Journal of Dentistry</i> , 2018, 78, 91-99. | 1.7 | 30 |
| 130 | Effects of single species versus multispecies periodontal biofilms on the antibacterial efficacy of a novel bioactive Class-V nanocomposite. <i>Dental Materials</i> , 2019, 35, 847-861. | 1.6 | 30 |
| 131 | Novel Calcium Phosphate Cement with Metformin-Loaded Chitosan for Odontogenic Differentiation of Human Dental Pulp Cells. <i>Stem Cells International</i> , 2018, 2018, 1-10. | 1.2 | 29 |
| 132 | Novel bioactive root canal sealer with antibiofilm and remineralization properties. <i>Journal of Dentistry</i> , 2019, 83, 67-76. | 1.7 | 29 |
| 133 | pH-responsive calcium and phosphate-ion releasing antibacterial sealants on carious enamel lesions in vitro. <i>Journal of Dentistry</i> , 2020, 97, 103323. | 1.7 | 29 |
| 134 | Metformin Enhances the Differentiation of Dental Pulp Cells into Odontoblasts by Activating AMPK Signaling. <i>Journal of Endodontics</i> , 2018, 44, 576-584. | 1.4 | 28 |
| 135 | Bone regeneration in minipigs via calcium phosphate cement scaffold delivering autologous bone marrow mesenchymal stem cells and platelet-rich plasma. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e937-e948. | 1.3 | 28 |
| 136 | Tetracalcium phosphate composite containing quaternary ammonium dimethacrylate with antibacterial properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 726-734. | 1.6 | 27 |
| 137 | Formation of persisters in <i>Streptococcus mutans</i> biofilms induced by antibacterial dental monomer. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 178. | 1.7 | 27 |
| 138 | Novel rechargeable calcium phosphate nanoparticle-containing orthodontic cement. <i>International Journal of Oral Science</i> , 2017, 9, 24-32. | 3.6 | 27 |
| 139 | Protein-repellent nanocomposite with rechargeable calcium and phosphate for long-term ion release. <i>Dental Materials</i> , 2018, 34, 1735-1747. | 1.6 | 27 |
| 140 | A nano-CaF ₂ -containing orthodontic cement with antibacterial and remineralization capabilities to combat enamel white spot lesions. <i>Journal of Dentistry</i> , 2019, 89, 103172. | 1.7 | 27 |
| 141 | Novel endodontic sealer with dual strategies of dimethylaminohexadecyl methacrylate and nanoparticles of silver to inhibit root canal biofilms. <i>Dental Materials</i> , 2019, 35, 1117-1129. | 1.6 | 27 |
| 142 | Enamel remineralization via poly(amido amine) and adhesive resin containing calcium phosphate nanoparticles. <i>Journal of Dentistry</i> , 2020, 92, 103262. | 1.7 | 27 |
| 143 | Novel Bioactive and Therapeutic Root Canal Sealers with Antibacterial and Remineralization Properties. <i>Materials</i> , 2020, 13, 1096. | 1.3 | 27 |
| 144 | Self-healing adhesive with antibacterial activity in water-aging for 12 months. <i>Dental Materials</i> , 2019, 35, 1104-1116. | 1.6 | 26 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
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