

Dirk Mohn

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,671
citations

218677

26
h-index

182427

51
g-index

57
all docs

57
docs citations

57
times ranked

3427
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer/bioactive glass nanocomposites for biomedical applications: A review. <i>Composites Science and Technology</i> , 2010, 70, 1764-1776.	7.8	451
2	Comparison of nanoscale and microscale bioactive glass on the properties of P(3HB)/Bioglass® composites. <i>Biomaterials</i> , 2008, 29, 1750-1761.	11.4	305
3	Accelerated mineralization of dense collagen-nano bioactive glass hybrid gels increases scaffold stiffness and regulates osteoblastic function. <i>Biomaterials</i> , 2011, 32, 8915-8926.	11.4	176
4	Poly(3-hydroxybutyrate) multifunctional composite scaffolds for tissue engineering applications. <i>Biomaterials</i> , 2010, 31, 2806-2815.	11.4	149
5	Effect of nanoparticulate bioactive glass particles on bioactivity and cytocompatibility of poly(3-hydroxybutyrate) composites. <i>Journal of the Royal Society Interface</i> , 2010, 7, 453-465.	3.4	134
6	Bioactive glass (type 45S5) nanoparticles: in vitro reactivity on nanoscale and biocompatibility. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	114
7	Use of NIR light and upconversion phosphors in light-curable polymers. <i>Dental Materials</i> , 2012, 28, 304-311.	3.5	76
8	Radioopaque nanosized bioactive glass for potential root canal application: evaluation of radiopacity, bioactivity and alkaline capacity. <i>International Endodontic Journal</i> , 2010, 43, 210-217.	5.0	73
9	Fine-tuning of Bioactive Glass for Root Canal Disinfection. <i>Journal of Dental Research</i> , 2009, 88, 235-238.	5.2	72
10	Functionalizing a dentin bonding resin to become bioactive. <i>Dental Materials</i> , 2014, 30, 868-875.	3.5	69
11	Elastomeric nanocomposites as cell delivery vehicles and cardiac support devices. <i>Soft Matter</i> , 2010, 6, 4715.	2.7	65
12	Two-layer membranes of calcium phosphate/collagen/PLGA nanofibres: in vitro biomineralisation and osteogenic differentiation of human mesenchymal stem cells. <i>Nanoscale</i> , 2011, 3, 401-409.	5.6	61
13	In vitro reactivity of Sr-containing bioactive glass (type 1393) nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2014, 387, 41-46.	3.1	50
14	Composites made of flame-sprayed bioactive glass 45S5 and polymers: bioactivity and immediate sealing properties. <i>International Endodontic Journal</i> , 2010, 43, 1037-1046.	5.0	43
15	Effect of endodontic irrigants on biofilm matrix polysaccharides. <i>International Endodontic Journal</i> , 2017, 50, 153-160.	5.0	43
16	Biocompatibility and Bone Formation of Flexible, Cotton Wool-like PLGA/Calcium Phosphate Nanocomposites in Sheep. <i>The Open Orthopaedics Journal</i> , 2011, 5, 63-71.	0.2	42
17	Short-term storage stability of NaOC _l solutions when combined with Dual Rinse <sc>HEDP</sc>. <i>International Endodontic Journal</i> , 2018, 51, 691-696.	5.0	41
18	Electrochemical Disinfection of Dental Implants – a Proof of Concept. <i>PLoS ONE</i> , 2011, 6, e16157.	2.5	40

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19	Novel strontium-doped bioactive glass nanoparticles enhance proliferation and osteogenic differentiation of human bone marrow stromal cells. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	39
20	Interactions between the Tetrasodium Salts of EDTA and 1-Hydroxyethane 1,1-Diphosphonic Acid with Sodium Hypochlorite Irrigants. <i>Journal of Endodontics</i> , 2017, 43, 657-661.	3.1	36
21	Bioactivity and Physico-Chemical Properties of Dental Composites Functionalized with Nano- vs. Micro-Sized Bioactive Glass. <i>Journal of Clinical Medicine</i> , 2020, 9, 772.	2.4	36
22	Curing potential of experimental resin composites filled with bioactive glass: A comparison between Bis-EMA and UDMA based resin systems. <i>Dental Materials</i> , 2020, 36, 711-723.	3.5	35
23	Optimization of Bioglass [®] Scaffold Fabrication Process. <i>Journal of the American Ceramic Society</i> , 2011, 94, 4184-4190.	3.8	34
24	Bioactivity and properties of a dental adhesive functionalized with polyhedral oligomeric silsesquioxanes (POSS) and bioactive glass. <i>Dental Materials</i> , 2017, 33, 1056-1065.	3.5	33
25	pH-dependent antibacterial effects on oral microorganisms through pure PLGA implants and composites with nanosized bioactive glass. <i>Acta Biomaterialia</i> , 2013, 9, 9118-9125.	8.3	32
26	Light-curable polymer/calcium phosphate nanocomposite glue for bone defect treatment. <i>Acta Biomaterialia</i> , 2010, 6, 2704-2710.	8.3	28
27	Reactivity of calcium phosphate nanoparticles prepared by flame spray synthesis as precursors for calcium phosphate cements. <i>Journal of Materials Chemistry</i> , 2011, 21, 13963.	6.7	26
28	Preclinical in vivo Performance of Novel Biodegradable, Electrospun Poly(lactic acid) and Poly(lactic-co-glycolic acid) Nanocomposites: A Review. <i>Materials</i> , 2015, 8, 4912-4931.	2.9	22
29	Highly elastomeric poly(3-hydroxyoctanoate) based natural polymer composite for enhanced keratinocyte regeneration. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017, 66, 326-335.	3.4	22
30	Spherical calcium phosphate nanoparticle fillers allow polymer processing of bone fixation devices with high bioactivity. <i>Polymer Engineering and Science</i> , 2010, 50, 952-960.	3.1	21
31	Chemical, cytotoxic and genotoxic analysis of etidronate in sodium hypochlorite solution. <i>International Endodontic Journal</i> , 2019, 52, 1228-1234.	5.0	20
32	Effect of Low Direct Current on Anaerobic Multispecies Biofilm Adhering to a Titanium Implant Surface. <i>Clinical Implant Dentistry and Related Research</i> , 2014, 16, 552-556.	3.7	18
33	Bioactive glass containing silicone composites for left ventricular assist device drivelines: role of Bioglass 45S5 [®] particle size on mechanical properties and cytocompatibility. <i>Journal of Materials Science</i> , 2017, 52, 9023-9038.	3.7	18
34	Incorporation of particulate bioactive glasses into a dental root canal sealer. <i>Biomedical Glasses</i> , 2016, 2, .	2.4	17
35	Soy protein isolate/bioactive glass composite membranes: Processing and properties. <i>European Polymer Journal</i> , 2018, 106, 232-241.	5.4	17
36	Light Transmittance and Polymerization of Bulk-Fill Composite Materials Doped with Bioactive Micro-Fillers. <i>Materials</i> , 2019, 12, 4087.	2.9	17

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37	Polymerization shrinkage behaviour of resin composites functionalized with unsilanized bioactive glass fillers. <i>Scientific Reports</i> , 2020, 10, 15237.	3.3	17
38	Gene expression in human adipose-derived stem cells: comparison of 2D films, 3D electrospun meshes or co-cultured scaffolds with two-way paracrine effects. , 2017, 34, 232-248.		16
39	Dentine decalcification and smear layer removal by different ethylenediaminetetraacetic acid and 1-hydroxyethane-1,1-diphosphonic acid species. <i>International Endodontic Journal</i> , 2019, 52, 237-243.	5.0	16
40	Nanoscale bioactive glass activates osteoclastic differentiation of RAW 264.7 cells. <i>Nanomedicine</i> , 2016, 11, 1093-1105.	3.3	15
41	Directing Stem Cell Commitment by Amorphous Calcium Phosphate Nanoparticles Incorporated in PLGA: Relevance of the Free Calcium Ion Concentration. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2627.	4.1	15
42	Incorporation of reactive silver-tricalcium phosphate nanoparticles into polyamide 6 allows preparation of self-disinfecting fibers. <i>Polymer Engineering and Science</i> , 2011, 51, 71-77.	3.1	14
43	Oral biofilm and caries-infiltrant interactions on enamel. <i>Journal of Dentistry</i> , 2016, 48, 40-45.	4.1	13
44	Effect of Direct Current on Surface Structure and Cytocompatibility of Titanium Dental Implants. <i>International Journal of Oral and Maxillofacial Implants</i> , 2014, 29, 735-742.	1.4	11
45	Magnetically deliverable calcium phosphate nanoparticles for localized gene expression. <i>RSC Advances</i> , 2015, 5, 9997-10004.	3.6	10
46	Polymerization and shrinkage stress formation of experimental resin composites doped with nano- <i>vs.</i> micron-sized bioactive glasses. <i>Dental Materials Journal</i> , 2021, 40, 110-115.	1.8	10
47	Sintering of core-shell Ag/glass nanoparticles: metal percolation at the glass transition temperature yields metal/glass/ceramic composites. <i>Journal of Materials Chemistry</i> , 2010, 20, 7769.	6.7	9
48	Modification of silicone elastomers with Bioglass 45S5® increases in ovo tissue biointegration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1180-1188.	3.4	8
49	Nanocomposites of high-density polyethylene with amorphous calcium phosphate: <i>in vitro</i> biomineralization and cytocompatibility of human mesenchymal stem cells. <i>Biomedical Materials (Bristol)</i> , 2012, 7, 054103.	3.3	7
50	Short- and Long-Term Dentin Bond Strength of Bioactive Glass-Modified Dental Adhesives. <i>Nanomaterials</i> , 2021, 11, 1894.	4.1	7
51	A New Method to Assess Available Chlorine in Small Volumes of Liquid. <i>Journal of Endodontics</i> , 2014, 40, 534-537.	3.1	6
52	Regenerable cerium oxide based odor adsorber for indoor air purification from acidic volatile organic compounds. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 965-972.	20.2	6
53	Effects of endodontic irrigants on blood and blood-stained dentin. <i>Heliyon</i> , 2019, 5, e01794.	3.2	5
54	Hydrogen Peroxide Versus Sodium Hypochlorite: All a Matter of pH?. <i>Journal of Endodontics</i> , 2021, 47, 297-302.	3.1	4

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55	Advantages of nanoscale bioactive glass as inorganic filler in alginate hydrogels for drug delivery and biofabrication. <i>European Journal of Materials</i> , 2022, 2, 33-53.	2.6	3
56	Heat-Induced Dry Tailoring of Porosity in Polymer Scaffolds. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 1143-1148.	3.6	2
57	Buffer Solution Reduces Acidic Toothpaste Abrasivity Measured in Standardized Tests. <i>Frontiers in Dental Medicine</i> , 2020, 1, .	1.4	2