Francesco Baino

List of Publications by Year
in descending order

198 papers	8,702 citations	38742 50 h-index	56724 83 g-index
204 all docs	204 docs citations	204 times ranked	7246 citing authors

#	Article	IF	Citations
1	Bioactive Glasses: Where Are We and Where Are We Going?. Journal of Functional Biomaterials, 2018, 9, 25.	4.4	334
2	A critical review of multifunctional titanium surfaces: New frontiers for improving osseointegration and host response, avoiding bacteria contamination. Acta Biomaterialia, 2018, 79, 1-22.	8.3	293
3	Bioceramics and Scaffolds: A Winning Combination for Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2015, 3, 202.	4.1	261
4	Bioactive Glasses: Sprouting Angiogenesis in Tissue Engineering. Trends in Biotechnology, 2018, 36, 430-444.	9.3	253
5	Bioactive glass-based materials with hierarchical porosity for medical applications: Review of recent advances. Acta Biomaterialia, 2016, 42, 18-32.	8.3	226
6	Threeâ€dimensional glassâ€derived scaffolds for bone tissue engineering: Current trends and forecasts for the future. Journal of Biomedical Materials Research - Part A, 2011, 97A, 514-535.	4.0	221
7	Bioactive glasses: Special applications outside the skeletal system. Journal of Non-Crystalline Solids, 2016, 432, 15-30.	3.1	221
8	Bioactive Glasses: From Parent 45S5 Composition to Scaffold-Assisted Tissue-Healing Therapies. Journal of Functional Biomaterials, 2018, 9, 24.	4.4	202
9	Mechanical properties of bioactive glasses, ceramics, glass-ceramics and composites: State-of-the-art review and future challenges. Materials Science and Engineering C, 2019, 104, 109895.	7.3	185
10	Mesoporous bioactive glasses: Promising platforms for antibacterial strategies. Acta Biomaterialia, 2018, 81, 1-19.	8.3	158
11	Strontium- and cobalt-substituted bioactive glasses seeded with human umbilical cord perivascular cells to promote bone regeneration via enhanced osteogenic and angiogenic activities. Acta Biomaterialia, 2017, 58, 502-514.	8.3	139
12	Nanotechnology for angiogenesis: opportunities and challenges. Chemical Society Reviews, 2020, 49, 5008-5057.	38.1	135
13	Biomaterials and implants for orbital floor repair. Acta Biomaterialia, 2011, 7, 3248-3266.	8.3	134
14	Bioactive solâ€gel glasses: Processing, properties, and applications. International Journal of Applied Ceramic Technology, 2018, 15, 841-860.	2.1	124
15	Multiple and Promising Applications of Strontium (Sr)-Containing Bioactive Glasses in Bone Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2019, 7, 161.	4.1	122
16	Bioactive glass/polymer composite scaffolds mimicking bone tissue. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2654-2667.	4.0	115
17	Biomaterials, Current Strategies, and Novel Nano-Technological Approaches for Periodontal Regeneration. Journal of Functional Biomaterials, 2019, 10, 3.	4.4	114
18	Additive Manufacturing Methods for Producing Hydroxyapatite and Hydroxyapatite-Based Composite Scaffolds: A Review. Frontiers in Materials, 2019, 6, .	2.4	113

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19	High strength bioactive glass-ceramic scaffolds for bone regeneration. Journal of Materials Science: Materials in Medicine, 2009, 20, 643-653.	3.6	107
20	Towards an ideal biomaterial for vitreous replacement: Historical overview and future trends. Acta Biomaterialia, 2011, 7, 921-935.	8.3	101
21	The Use of Simulated Body Fluid (SBF) for Assessing Materials Bioactivity in the Context of Tissue Engineering: Review and Challenges. Biomimetics, 2020, 5, 57.	3.3	98
22	Bioactive glasses entering the mainstream. Drug Discovery Today, 2018, 23, 1700-1704.	6.4	96
23	Processing methods for making porous bioactive glassâ€based scaffoldsâ€"A stateâ€ofâ€theâ€art review. International Journal of Applied Ceramic Technology, 2019, 16, 1762-1796.	2.1	93
24	Hydroxyapatite for Biomedical Applications: A Short Overview. Ceramics, 2021, 4, 542-563.	2.6	88
25	Biomaterials for orbital implants and ocular prostheses: Overview and future prospects. Acta Biomaterialia, 2014, 10, 1064-1087.	8.3	87
26	Biomedical applications of nanoceria: new roles for an old player. Nanomedicine, 2018, 13, 3051-3069.	3.3	87
27	Optimization of composition, structure and mechanical strength of bioactive 3-D glass-ceramic scaffolds for bone substitution. Journal of Biomaterials Applications, 2013, 27, 872-890.	2.4	86
28	Bioactive glasses â€" When glass science and technology meet regenerative medicine. Ceramics International, 2018, 44, 14953-14966.	4.8	82
29	Micro-CT studies on 3-D bioactive glassâ€"ceramic scaffolds for bone regeneration. Acta Biomaterialia, 2009, 5, 1328-1337.	8.3	79
30	Acceleration of bone regeneration in bioactive glass/gelatin composite scaffolds seeded with bone marrow-derived mesenchymal stem cells over-expressing bone morphogenetic protein-7. Materials Science and Engineering C, 2017, 75, 688-698.	7.3	76
31	Glass-based coatings on biomedical implants: a state-of-the-art review. Biomedical Glasses, 2017, 3, 1-17.	2.4	76
32	Can bioactive glasses be useful to accelerate the healing of epithelial tissues?. Materials Science and Engineering C, 2019, 97, 1009-1020.	7.3	74
33	3-D high-strength glassâ€"ceramic scaffolds containing fluoroapatite for load-bearing bone portions replacement. Materials Science and Engineering C, 2009, 29, 2055-2062.	7.3	73
34	Electrospun Nanofibers for Improved Angiogenesis: Promises for Tissue Engineering Applications. Nanomaterials, 2020, 10, 1609.	4.1	73
35	Gum Tragacanth (GT): A Versatile Biocompatible Material beyond Borders. Molecules, 2021, 26, 1510.	3.8	73
36	Calcium carbonate: Adored and ignored in bioactivity assessment. Acta Biomaterialia, 2019, 91, 35-47.	8.3	72

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37	Mechanical properties and reliability of glassâ€"ceramic foam scaffolds for bone repair. Materials Letters, 2014, 118, 27-30.	2.6	67
38	Copper-containing bioactive glasses and glass-ceramics: From tissue regeneration to cancer therapeutic strategies. Materials Science and Engineering C, 2021, 121, 111741.	7.3	65
39	Potential of Bioactive Glasses for Cardiac and Pulmonary Tissue Engineering. Materials, 2017, 10, 1429.	2.9	64
40	â€œHardâ€•ceramics for â€œSoftâ€•tissue engineering: Paradox or opportunity?. Acta Biomaterialia, 2020, 115, 1-28.	8.3	63
41	Modelling of the strengthâ€"porosity relationship in glass-ceramic foam scaffolds for bone repair. Journal of the European Ceramic Society, 2014, 34, 2663-2673.	5.7	62
42	Bioceramic coatings on metallic implants: An overview. Ceramics International, 2022, 48, 8987-9005.	4.8	62
43	Advances in bioactive glass-containing injectable hydrogel biomaterials for tissue regeneration. Acta Biomaterialia, 2021, 136, 1-36.	8.3	61
44	Novel bioceramic-reinforced hydrogel for alveolar bone regeneration. Acta Biomaterialia, 2016, 44, 97-109.	8.3	60
45	Bone Tissue Engineering Using Human Cells: A Comprehensive Review on Recent Trends, Current Prospects, and Recommendations. Applied Sciences (Switzerland), 2019, 9, 174.	2.5	58
46	Bioactive glass-derived trabecular coating: a smart solution for enhancing osteointegration of prosthetic elements. Journal of Materials Science: Materials in Medicine, 2012, 23, 2369-2380.	3.6	57
47	Comparison between Bioactive Sol-Gel and Melt-Derived Glasses/Glass-Ceramics Based on the Multicomponent SiO2â€"P2O5â€"CaOâ€"MgOâ€"Na2Oâ€"K2O System. Materials, 2020, 13, 540.	2.9	57
48	Orbital implants: State-of-the-art review with emphasis on biomaterials and recent advances. Materials Science and Engineering C, 2016, 69, 1410-1428.	7.3	56
49	Mesoporous bioactive glasses (MBGs) in cancer therapy: Full of hope and promise. Materials Letters, 2019, 251, 241-246.	2.6	54
50	Digital light processing stereolithography of hydroxyapatite scaffolds with boneâ€like architecture, permeability, and mechanical properties. Journal of the American Ceramic Society, 2022, 105, 1648-1657.	3.8	54
51	Curcumin in tissue engineering: A traditional remedy for modern medicine. BioFactors, 2019, 45, 135-151.	5.4	53
52	Using porous bioceramic scaffolds to model healthy and osteoporotic bone. Journal of the European Ceramic Society, 2016, 36, 2175-2182.	5.7	52
53	Electrophoretic deposition of mesoporous bioactive glass on glassâ€"ceramic foam scaffolds for bone tissue engineering. Journal of Materials Science: Materials in Medicine, 2015, 26, 5346.	3.6	49
54	Electrophoretic deposition of spray-dried Sr-containing mesoporous bioactive glass spheres on glassâ€"ceramic scaffolds for bone tissue regeneration. Journal of Materials Science, 2017, 52, 9103-9114.	3.7	49

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55	Cerium Oxide Nanoparticles (Nanoceria): Hopes in Soft Tissue Engineering. Molecules, 2020, 25, 4559.	3.8	49
56	Foam-like scaffolds for bone tissue engineering based on a novel couple of silicate-phosphate specular glasses: synthesis and properties. Journal of Materials Science: Materials in Medicine, 2009, 20, 2197-2205.	3.6	48
57	Application of Response Surface Methodology for Optimizing the Therapeutic Activity of ZnO Nanoparticles Biosynthesized from Aspergillus niger. Biomimetics, 2021, 6, 34.	3.3	48
58	Microstructural characterization and in vitro bioactivity of porous glass-ceramic scaffolds for bone regeneration by synchrotron radiation X-ray microtomography. Journal of the European Ceramic Society, 2013, 33, 1553-1565.	5.7	47
59	Using Bioactive Glasses in the Management of Burns. Frontiers in Bioengineering and Biotechnology, 2019, 7, 62.	4.1	47
60	Fe-doped bioactive glass-derived scaffolds produced by sol-gel foaming. Materials Letters, 2019, 235, 207-211.	2.6	47
61	Glassâ€“ceramic scaffolds containing silica mesophases for bone grafting and drug delivery. Journal of Materials Science: Materials in Medicine, 2009, 20, 809-820.	3.6	46
62	Learning from Nature: Using bioinspired approaches and natural materials to make porous bioceramics. International Journal of Applied Ceramic Technology, 2017, 14, 507-520.	2.1	46
63	Strontium- and Cobalt-Doped Multicomponent Mesoporous Bioactive Glasses (MBGs) for Potential Use in Bone Tissue Engineering Applications. Materials, 2020, 13, 1348.	2.9	46
64	Fe-Doped Sol-Gel Glasses and Glass-Ceramics for Magnetic Hyperthermia. Materials, 2018, 11, 173.	2.9	45
65	Functionalization and Surface Modifications of Bioactive Glasses (BGs): Tailoring of the Biological Response Working on the Outermost Surface Layer. Materials, 2019, 12, 3696.	2.9	45
66	Mesoporous Bioactive Glass as a Multifunctional System for Bone Regeneration and Controlled Drug Release. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 12-21.	1.6	42
67	Bioceramics in ophthalmology. Acta Biomaterialia, 2014, 10, 3372-3397.	8.3	42
68	3D Printing of Hierarchical Scaffolds Based on Mesoporous Bioactive Glasses (MBGs)â€"Fundamentals and Applications. Materials, 2020, 13, 1688.	2.9	42
69	Composite Films of Gelatin and Hydroxyapatite/Bioactive Glass for Tissue-Engineering Applications. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 1207-1226.	3.5	41
70	Design, selection and characterization of novel glasses and glass-ceramics for use in prosthetic applications. Ceramics International, 2016, 42, 1482-1491.	4.8	41
71	Feasibility, tailoring and properties of polyurethane/bioactive glass composite scaffolds for tissue engineering. Journal of Materials Science: Materials in Medicine, 2009, 20, 2189-2195.	3.6	40
72	A Guided Walk through the World of Mesoporous Bioactive Glasses (MBGs): Fundamentals, Processing, and Applications. Nanomaterials, 2020, 10, 2571.	4.1	40

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73	Composite Biomaterials Based on Sol-Gel Mesoporous Silicate Glasses: A Review. Bioengineering, 2017, 4, 15.	3.5	39
74	Robocasting of SiO2-Based Bioactive Glass Scaffolds with Porosity Gradient for Bone Regeneration and Potential Load-Bearing Applications. Materials, 2019, 12, 2691.	2.9	39
75	Zirconia-containing radiopaque mesoporous bioactive glasses. Materials Letters, 2014, 130, 281-284.	2.6	38
76	Pluronic F127/Doxorubicin microemulsions: Preparation, characterization, and toxicity evaluations. Journal of Molecular Liquids, 2022, 345, 117028.	4.9	37
77	Scleral buckling biomaterials and implants for retinal detachment surgery. Medical Engineering and Physics, 2010, 32, 945-956.	1.7	36
78	Bonding strength of glass-ceramic trabecular-like coatings to ceramic substrates for prosthetic applications. Materials Science and Engineering C, 2013, 33, 1530-1538.	7.3	36
79	Resorbable Glassâ€“Ceramic Phosphate-based Scaffolds for Bone Tissue Engineering: Synthesis, Properties, and<i>In vitro</i>Effects on Human Marrow Stromal Cells. Journal of Biomaterials Applications, 2011, 26, 465-489.	2.4	34
80	Bread-Derived Bioactive Porous Scaffolds: An Innovative and Sustainable Approach to Bone Tissue Engineering. Molecules, 2019, 24, 2954.	3.8	34
81	Feasibility and Tailoring of Bioactive Glass-ceramic Scaffolds with Gradient of Porosity for Bone Grafting. Journal of Biomaterials Applications, 2010, 24, 693-712.	2.4	33
82	Feasibility of glassâ€“ceramic coatings on alumina prosthetic implants by airbrush spraying method. Ceramics International, 2015, 41, 2150-2159.	4.8	33
83	Bioactive glass coatings fabricated by laser cladding on ceramic acetabular cups: a proof-of-concept study. Journal of Materials Science, 2017, 52, 9115-9128.	3.7	33
84	How can bioactive glasses be useful in ocular surgery?. Journal of Biomedical Materials Research - Part A, 2015, 103, 1259-1275.	4.0	32
85	Robocasting of Bioactive SiO₂-P₂O₅-CaO-MgO-Na₂O-K₂O Glass Scaffolds. Journal of Healthcare Engineering, 2019, 2019, 1-12.	1.9	32
86	MOF-Mediated Synthesis of CuO/CeO2 Composite Nanoparticles: Characterization and Estimation of the Cellular Toxicity against Breast Cancer Cell Line (MCF-7). Journal of Functional Biomaterials, 2021, 12, 53.	4.4	32
87	Production and Characterization of Glass-Ceramic Materials for Potential Use in Dental Applications: Thermal and Mechanical Properties, Microstructure, and In Vitro Bioactivity. Applied Sciences (Switzerland), 2017, 7, 1330.	2.5	31
88	Antibacterial Bioglassâ€Derived Scaffolds: Innovative Synthesis Approach and Characterization. International Journal of Applied Glass Science, 2016, 7, 238-247.	2.0	30
89	Micro-CT based finite element models for elastic properties of glassâ€“ceramic scaffolds. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 248-255.	3.1	30
90	Elastic Mechanical Properties of 45S5-Based Bioactive Glassâ€“Ceramic Scaffolds. Materials, 2019, 12, 3244.	2.9	30

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91	Novel resorbable glass-ceramic scaffolds for hard tissue engineering: From the parent phosphate glass to its bone-like macroporous derivatives. Journal of Biomaterials Applications, 2014, 28, 1287-1303.	2.4	29
92	Engineered porous scaffolds for periprosthetic infection prevention. Materials Science and Engineering C, 2016, 68, 701-715.	7.3	29
93	Novel antibacterial ocular prostheses: Proof of concept and physico-chemical characterization. Materials Science and Engineering C, 2016, 60, 467-474.	7.3	29
94	Synergistic combination of bioactive glasses and polymers for enhanced bone tissue regeneration. Materials Today: Proceedings, 2018, 5, 15532-15539.	1.8	29
95	Copper-Doped Ordered Mesoporous Bioactive Glass: A Promising Multifunctional Platform for Bone Tissue Engineering. Bioengineering, 2020, 7, 45.	3.5	29
96	A critical review of bioceramics for magnetic hyperthermia. Journal of the American Ceramic Society, 2022, 105, 1723-1747.	3.8	29
97	Foam Replica Method in the Manufacturing of Bioactive Glass Scaffolds: Out-of-Date Technology or Still Underexploited Potential?. Materials, 2021, 14, 2795.	2.9	29
98	Biomedical Waste Management by Using Nanophotocatalysts: The Need for New Options. Materials, 2020, 13, 3511.	2.9	28
99	Biochemical, Ameliorative and Cytotoxic Effects of Newly Synthesized Curcumin Microemulsions: Evidence from In Vitro and In Vivo Studies. Nanomaterials, 2021, 11, 817.	4.1	28
100	Mechanical characterization of glass-ceramic scaffolds at multiple characteristic lengths through nanoindentation. Journal of the European Ceramic Society, 2016, 36, 2403-2409.	5.7	27
101	Dolomite-Foamed Bioactive Silicate Scaffolds for Bone Tissue Repair. Materials, 2020, 13, 628.	2.9	27
102	Stem <scp>cellâ€mediated</scp> angiogenesis in skin tissue engineering and wound healing. Wound Repair and Regeneration, 2022, 30, 421-435.	3.0	27
103	Iron (Fe)-doped mesoporous 45S5 bioactive glasses: Implications for cancer therapy. Translational Oncology, 2022, 20, 101397.	3.7	26
104	New sol-gel-derived magnetic bioactive glass-ceramics containing superparamagnetic hematite nanocrystals for hyperthermia application. Materials Science and Engineering C, 2021, 120, 111692.	7.3	25
105	Mesoporous Silica Nanoparticles and Mesoporous Bioactive Glasses for Wound Management: From Skin Regeneration to Cancer Therapy. Materials, 2021, 14, 3337.	2.9	25
106	Novel full-ceramic monoblock acetabular cup with a bioactive trabecular coating: design, fabrication and characterization. Ceramics International, 2016, 42, 6833-6845.	4.8	24
107	Quantifying the effect of particle size on the crystallization of 45S5 bioactive glass. Materials Letters, 2018, 224, 54-58.	2.6	24
108	Mechanical characterization of 45S5 bioactive glass-derived scaffolds. Materials Letters, 2019, 245, 14-17.	2.6	24

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109	Newly-designed collagen/polyurethane bioartificial blend as coating on bioactive glass-ceramics for bone tissue engineering applications. Materials Science and Engineering C, 2019, 96, 218-233.	7.3	24
110	Laser Surface Texturing of Alumina/Zirconia Composite Ceramics for Potential Use in Hip Joint Prosthesis. Coatings, 2019, 9, 369.	2.6	23
111	In Vitro Assessment of Bioactive Glass Coatings on Alumina/Zirconia Composite Implants for Potential Use in Prosthetic Applications. International Journal of Molecular Sciences, 2019, 20, 722.	4.1	23
112	Vitrification of municipal solid waste incineration fly ash: An approach to find the successful batch compositions. Ceramics International, 2021, 47, 7738-7744.	4.8	23
113	In vitro and in vivo anticancer effect of pH-responsive paclitaxel-loaded niosomes. Journal of Materials Science: Materials in Medicine, 2021, 32, 147.	3.6	23
114	Wollastonite-containing bioceramic coatings on alumina substrates: Design considerations and mechanical modelling. Ceramics International, 2015, 41, 11464-11470.	4.8	22
115	Production and characterization of ceramic foams derived from vitrified bottom ashes. Materials Letters, 2019, 236, 281-284.	2.6	22
116	Three-dimensionally printed polycaprolactone/multicomponent bioactive glass scaffolds for potential application in bone tissue engineering. Biomedical Glasses, 2020, 6, 57-69.	2.4	22
117	Comprehensive assessment of bioactive glass and glass-ceramic scaffold permeability: experimental measurements by pressure wave drop, modelling and computed tomography-based analysis. Acta Biomaterialia, 2021, 119, 405-418.	8.3	21
118	Assessment of SnFe2O4 Nanoparticles for Potential Application in Theranostics: Synthesis, Characterization, In Vitro, and In Vivo Toxicity. Materials, 2021, 14, 825.	2.9	21
119	Shock Waves Induce Activity of Human Osteoblast-Like Cells in Bioactive Scaffolds. Journal of Trauma, 2010, 68, 1439-1444.	2.3	20
120	Production and Physicochemical Characterization of Cu-Doped Silicate Bioceramic Scaffolds. Materials, 2018, 11, 1524.	2.9	20
121	Nanomaterials for the Diagnosis and Treatment of Head and Neck Cancers: A Review. Materials, 2021, 14, 3706.	2.9	20
122	Bioactive Glasses and Glass/Polymer Composites for Neuroregeneration: Should We Be Hopeful?. Applied Sciences (Switzerland), 2020, 10, 3421.	2.5	19
123	The Use of Polymers in the Treatment of Retinal Detachment: Current Trends and Future Perspectives. Polymers, 2010, 2, 286-322.	4.5	18
124	Bioresorbable glass effect on the physico-chemical properties of bilayered scaffolds for osteochondral regeneration. Materials Letters, 2012, 89, 74-76.	2.6	18
125	Al-MCM-41 inside a glassâ€"ceramic scaffold: A mesoâ€"macroporous system for acid catalysis. Journal of the European Ceramic Society, 2013, 33, 1535-1543.	5.7	18
126	Key role of the expression of bone morphogenetic proteins in increasing the osteogenic activity of osteoblast-like cells exposed to shock waves and seeded on bioactive glass-ceramic scaffolds for bone tissue engineering. Journal of Biomaterials Applications, 2014, 29, 728-736.	2.4	18

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127	Quantifying the micro-architectural similarity of bioceramic scaffolds to bone. Ceramics International, 2017, 43, 9443-9450.	4.8	18
128	F127/Cisplatin Microemulsions: In Vitro, In Vivo and Computational Studies. Applied Sciences (Switzerland), 2021, 11, 3006.	2.5	18
129	CoNi alloy nanoparticles for cancer theranostics: synthesis, physical characterization, in vitro and in vivo studies. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	18
130	Osteogenic Potential of Magnesium (Mg)-Doped Multicomponent Bioactive Glass: In Vitro and In Vivo Animal Studies. Materials, 2022, 15, 318.	2.9	18
131	Strategies for Cancer Treatment Based on Photonic Nanomedicine. Materials, 2021, 14, 1435.	2.9	17
132	Crystallization behavior of SiO2â€“P2O5â€“CaOâ€“MgOâ€“Na2Oâ€“K2O bioactive glass powder. Biomedical Glasses, 2019, 5, 46-52.	2.4	16
133	Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting. Biomedical Glasses, 2019, 5, 140-147.	2.4	16
134	Regulation of the Ocular Cell/Tissue Response by Implantable Biomaterials and Drug Delivery Systems. Bioengineering, 2020, 7, 65.	3.5	16
135	Monodisperse Mesoporous Silica Spheres Inside a Bioactive Macroporous Glassâ€“Ceramic Scaffold. Advanced Engineering Materials, 2010, 12, B256.	3.5	15
136	Collagen/Polyurethane-Coated Bioactive Glass: Early Achievements towards the Modelling of Healthy and Osteoporotic Bone. Key Engineering Materials, 0, 631, 184-189.	0.4	15
137	When size matters: Biological response to strontium- and cobalt-substituted bioactive glass particles. Materials Today: Proceedings, 2018, 5, 15768-15775.	1.8	15
138	Oil-In-Water Microemulsion Encapsulation of Antagonist Drugs Prevents Renal Ischemia-Reperfusion Injury in Rats. Applied Sciences (Switzerland), 2021, 11, 1264.	2.5	15
139	CoNiZn and CoNiFe Nanoparticles: Synthesis, Physical Characterization, and In Vitro Cytotoxicity Evaluations. Applied Sciences (Switzerland), 2021, 11, 5339.	2.5	14
140	Porous glass-ceramic orbital implants: A feasibility study. Materials Letters, 2018, 212, 12-15.	2.6	13
141	Nanoscale Topographical Characterization of Orbital Implant Materials. Materials, 2018, 11, 660.	2.9	13
142	Curcumin: footprints on cardiac tissue engineering. Expert Opinion on Biological Therapy, 2019, 19, 1199-1205.	3.1	13
143	Ceramics for oculo-orbital surgery. Ceramics International, 2015, 41, 5213-5231.	4.8	12
144	Bioactive glass and glassâ€ceramic orbital implants. International Journal of Applied Ceramic Technology, 2019, 16, 1850-1863.	2.1	12

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145	Synthesis and physico-chemical characterization of fluoride (F)- and silver (Ag)-substituted sol-gel mesoporous bioactive glasses. Biomedical Glasses, 2019, 5, 185-192.	2.4	12
146	Vitrified and nonvitrified municipal solid wastes as ordinary Portland cement (OPC) and sand substitution in mortars. International Journal of Applied Ceramic Technology, 2020, 17, 573-583.	2.1	12
147	High-reliability data processing and calculation of microstructural parameters in hydroxyapatite scaffolds produced by vat photopolymerization. Journal of the European Ceramic Society, 2022, 42, 6206-6212.	5.7	12
148	In Vivo Evaluation of 3D-Printed Silica-Based Bioactive Glass Scaffolds for Bone Regeneration. Journal of Functional Biomaterials, 2022, 13, 74.	4.4	11
149	Bone Structural Similarity Score: A Multiparametric Tool to Match Properties of Biomimetic Bone Substitutes with their Target Tissues. Journal of Applied Biomaterials and Functional Materials, 2016, 14, e277-e289.	1.6	10
150	Sintering Behavior of a Six-Oxide Silicate Bioactive Glass for Scaffold Manufacturing. Applied Sciences (Switzerland), 2020, 10, 8279.	2.5	10
151	Biomedical Radioactive Glasses for Brachytherapy. Materials, 2021, 14, 1131.	2.9	10
152	Micro computed tomography based finite element models for elastic and strength properties of 3D printed glass scaffolds. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 292-306.	3.4	9
153	Foam-Replicated Diopside/Fluorapatite/Wollastonite-Based Glassâ€“Ceramic Scaffolds. Ceramics, 2022, 5, 120-130.	2.6	9
154	Adsorption of Pb and Cd in rice husk and their immobilization in porous glassâ€ceramic structures. International Journal of Applied Ceramic Technology, 2020, 17, 105-112.	2.1	8
155	Novel Bone-Like Porous Glass Coatings on Al₂O₃ Prosthetic Substrates. Key Engineering Materials, 2014, 631, 236-240.	0.4	7
156	Trabecular coating on curved alumina substrates using a novel bioactive and strong glass-ceramic. Biomedical Glasses, 2015, 1, .	2.4	7
157	Fabrication and morphological characterization of glassâ€ceramic orbital implants. International Journal of Applied Ceramic Technology, 2018, 15, 884-891.	2.1	7
158	Bioactive sol-gel glass-coated wood-derived biocarbon scaffolds. Materials Letters, 2018, 232, 14-17.	2.6	7
159	Sintering effects of bioactive glass incorporation in tricalcium phosphate scaffolds. Materials Letters, 2020, 274, 128010.	2.6	7
160	Biological Evaluation of a New Sodium-Potassium Silico-Phosphate Glass for Bone Regeneration: In Vitro and In Vivo Studies. Materials, 2021, 14, 4546.	2.9	7
161	Study on the joining of ceramic matrix composites to an Al alloy for advanced brake systems. Ceramics International, 2021, 47, 23463-23473.	4.8	6
162	Ceramics for bone replacement. , 2017, , 249-278.		5

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163	Microstructural characterization and robust comparison of ceramic porous orbital implants. Journal of the European Ceramic Society, 2018, 38, 2988-2993.	5.7	5
164	Nanoengineered biomaterials for bone/dental regeneration. , 2019, , 13-38.		5
165	Functionally Graded Bioactive Glass-Derived Scaffolds Mimicking Bone Tissue. , 2019, , 443-466.		5
166	Ceramic-on-ceramic catastrophic liner failure in total hip arthroplasty: Morphological and compositional analysis of fractured ceramic components. Ceramics International, 2021, 47, 11029-11036.	4.8	5
167	Superparamagnetic and highly bioactive SPIONS/bioactive glass nanocomposite and its potential application in magnetic hyperthermia. Materials Science and Engineering C, 2022, 135, 112655.	7.3	5
168	Printability of carboxymethyl cellulose/glass-containing inks for robocasting deposition in reversible solid oxide cell applications. Materials Letters, 2022, 318, 132239.	2.6	5
169	Bioresorbable Phosphate Scaffolds for Bone Regeneration. Key Engineering Materials, 2007, 361-363, 241-244.	0.4	4
170	Evidences of glass-ceramic white opaque tesserae from Roman age: A thermo-analytical approach. Materials Letters, 2012, 74, 194-196.	2.6	4
171	Tailoring of Bone Scaffold Properties Using Silicate/Phosphate Glass Mixtures. Key Engineering Materials, 2014, 631, 283-288.	0.4	4
172	Silver Nanocluster/Silica Composite Coatings Obtained by Sputtering for Antibacterial Applications. Engineering Materials, 2013, , 225-247.	0.6	4
173	Injectable bioactive glass-based pastes for potential use in bone tissue repair. Biomedical Glasses, 2020, 6, 23-33.	2.4	4
174	Antibacterial Nanocoatings for Ocular Applications. Advances in Science and Technology, 0, , .	0.2	3
175	Quantifying the Adhesion of Silicate Glassâ€"Ceramic Coatings onto Alumina for Biomedical Applications. Materials, 2019, 12, 1754.	2.9	3
176	Modelling the relationship between tensile strength and porosity in bioceramic scaffolds. International Journal of Applied Ceramic Technology, 2019, 16, 1823-1829.	2.1	3
177	Robocasting of mesoporous bioactive glasses (MBGs) for bone tissue engineering. , 2021, , 327-349.		3
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