

Chiara Vitale Brovarone

List of Publications by Citations

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149
papers

5,367
citations

41
h-index

65
g-index

155
ext. papers

6,181
ext. citations

5.5
avg, IF

5.92
L-index

#	Paper	IF	Citations
149	A unified in vitro evaluation for apatite-forming ability of bioactive glasses and their variants. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 115	4.5	203
148	Three-dimensional glass-derived scaffolds for bone tissue engineering: current trends and forecasts for the future. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 97, 514-35	5.4	199
147	Development of glass-ceramic scaffolds for bone tissue engineering: characterisation, proliferation of human osteoblasts and nodule formation. <i>Acta Biomaterialia</i> , 2007 , 3, 199-208	10.8	190
146	Bioactive glasses: Special applications outside the skeletal system. <i>Journal of Non-Crystalline Solids</i> , 2016 , 432, 15-30	3.9	178
145	Bioactive glass-based materials with hierarchical porosity for medical applications: Review of recent advances. <i>Acta Biomaterialia</i> , 2016 , 42, 18-32	10.8	176
144	Bioceramics and Scaffolds: A Winning Combination for Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 202	5.8	161
143	Copper-containing mesoporous bioactive glass nanoparticles as multifunctional agent for bone regeneration. <i>Acta Biomaterialia</i> , 2017 , 55, 493-504	10.8	158
142	Surface characterization of silver-doped bioactive glass. <i>Biomaterials</i> , 2005 , 26, 5111-9	15.6	126
141	3D-glass/ceramic scaffolds with antibacterial properties for bone grafting. <i>Chemical Engineering Journal</i> , 2008 , 137, 129-136	14.7	104
140	High strength bioactive glass-ceramic scaffolds for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 643-53	4.5	101
139	Bioactive glass/polymer composite scaffolds mimicking bone tissue. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2654-67	5.4	99
138	Macroporous bioactive glass-ceramic scaffolds for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 1069-78	4.5	80
137	Optimization of composition, structure and mechanical strength of bioactive 3-D glass-ceramic scaffolds for bone substitution. <i>Journal of Biomaterials Applications</i> , 2013 , 27, 872-90	2.9	77
136	In vitro study of manganese-doped bioactive glasses for bone regeneration. <i>Materials Science and Engineering C</i> , 2014 , 38, 107-18	8.3	74
135	Biocompatible glass-ceramic materials for bone substitution. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 471-8	4.5	74
134	Synthesis and characterization of coprecipitation-derived ferrimagnetic glass-ceramic. <i>Journal of Materials Science</i> , 2006 , 41, 1029-1037	4.3	73
133	Surface functionalization of bioactive glasses. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 981-92	5.4	71

132	Alkaline phosphatase grafting on bioactive glasses and glass ceramics. <i>Acta Biomaterialia</i> , 2010 , 6, 229-40	10.8	68
131	3-D high-strength glass-ceramic scaffolds containing fluoroapatite for load-bearing bone portions replacement. <i>Materials Science and Engineering C</i> , 2009 , 29, 2055-2062	8.3	67
130	Micro-CT studies on 3-D bioactive glass-ceramic scaffolds for bone regeneration. <i>Acta Biomaterialia</i> , 2009 , 5, 1328-37	10.8	66
129	Early stage reactivity and in vitro behavior of silica-based bioactive glasses and glass-ceramics. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 75-87	4.5	64
128	Mechanical properties and reliability of glass-ceramic foam scaffolds for bone repair. <i>Materials Letters</i> , 2014 , 118, 27-30	3.3	63
127	Biomaterials for orbital implants and ocular prostheses: overview and future prospects. <i>Acta Biomaterialia</i> , 2014 , 10, 1064-87	10.8	62
126	Spray-Dried Mesoporous Mixed Cu-Ni Oxide@Graphene Nanocomposite Microspheres for High Power and Durable Li-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1802438	21.8	62
125	Synthesis and characterization of MCM-41 spheres inside bioactive glass-ceramic scaffold. <i>Chemical Engineering Journal</i> , 2008 , 137, 54-61	14.7	57
124	Silver containing bioactive glasses prepared by molten salt ion-exchange. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 2935-2942	6	56
123	Biological glass coating on ceramic materials: in vitro evaluation using primary osteoblast cultures from healthy and osteopenic rat bone. <i>Biomaterials</i> , 2001 , 22, 2535-43	15.6	56
122	Glass-ceramics for cancer treatment: So close, or yet so far?. <i>Acta Biomaterialia</i> , 2019 , 83, 55-70	10.8	56
121	Micromechanics of bone tissue-engineering scaffolds, based on resolution error-cleared computer tomography. <i>Biomaterials</i> , 2009 , 30, 2411-9	15.6	53
120	Bioactive glass-derived trabecular coating: a smart solution for enhancing osteointegration of prosthetic elements. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 2369-80	4.5	52
119	Phosphate glass fibres and their role in neuronal polarization and axonal growth direction. <i>Acta Biomaterialia</i> , 2012 , 8, 1125-36	10.8	50
118	Macroporous glass-ceramic materials with bioactive properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 209-17	4.5	50
117	Modelling of the strength-porosity relationship in glass-ceramic foam scaffolds for bone repair. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 2663-2673	6	49
116	Electrophoretic deposition of mesoporous bioactive glass on glass-ceramic foam scaffolds for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 5346	4.5	48
115	Using porous bioceramic scaffolds to model healthy and osteoporotic bone. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2175-2182	6	46

114	Novel bioceramic-reinforced hydrogel for alveolar bone regeneration. <i>Acta Biomaterialia</i> , 2016 , 44, 97-100.8	4.5	45
113	Surface silver-doping of biocompatible glasses to induce antibacterial properties. Part II: Plasma sprayed glass-coatings. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 741-9	4.5	44
112	Foam-like scaffolds for bone tissue engineering based on a novel couple of silicate-phosphate specular glasses: synthesis and properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 2197-205	4.5	44
111	Microstructural characterization and in vitro bioactivity of porous glass-ceramic scaffolds for bone regeneration by synchrotron radiation X-ray microtomography. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1553-1565	6	42
110	Glass-ceramic scaffolds containing silica mesophases for bone grafting and drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 809-20	4.5	42
109	Microstructural and in vitro characterization of SiO ₂ -Na ₂ O-CaO-MgO glass-ceramic bioactive scaffolds for bone substitutes. <i>Journal of Materials Science: Materials in Medicine</i> , 2005 , 16, 909-17	4.5	42
108	Ag modified mesoporous bioactive glass nanoparticles for enhanced antibacterial activity in 3D infected skin model. <i>Materials Science and Engineering C</i> , 2019 , 103, 109764	8.3	40
107	Novel biocompatible and resorbable UV-transparent phosphate glass based optical fiber. <i>Optical Materials Express</i> , 2016 , 6, 2040	2.6	40
106	Electrophoretic deposition of spray-dried Sr-containing mesoporous bioactive glass spheres on glass/ceramic scaffolds for bone tissue regeneration. <i>Journal of Materials Science</i> , 2017 , 52, 9103-9114	4.3	39
105	The Incorporation of Strontium to Improve Bone-Regeneration Ability of Mesoporous Bioactive Glasses. <i>Materials</i> , 2018 , 11,	3.5	39
104	Response of human bone marrow stromal cells to a resorbable P(2)O(5)-SiO(2)-CaO-MgO-Na(2)O-K(2)O phosphate glass ceramic for tissue engineering applications. <i>Acta Biomaterialia</i> , 2010 , 6, 598-606	10.8	39
103	Hybrid injectable platforms for the in situ delivery of therapeutic ions from mesoporous glasses. <i>Chemical Engineering Journal</i> , 2018 , 340, 103-113	14.7	38
102	Mesoporous bioactive glass as a multifunctional system for bone regeneration and controlled drug release. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 12-21	1.8	38
101	Double-layer glass-ceramic coatings on Ti6Al4V for dental implants. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 2699-2705	6	38
100	Composite films of gelatin and hydroxyapatite/bioactive glass for tissue-engineering applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 1207-26	3.5	37
99	Surface silver-doping of biocompatible glass to induce antibacterial properties. Part I: Massive glass. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 733-40	4.5	37
98	Feasibility, tailoring and properties of polyurethane/bioactive glass composite scaffolds for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 2189-95	4.5	37
97	Bioceramics in ophthalmology. <i>Acta Biomaterialia</i> , 2014 , 10, 3372-97	10.8	36

96	Viscous flow sintering of bioactive glass-ceramic composites toughened by zirconia particles. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 675-683	6	36
95	Design, selection and characterization of novel glasses and glass-ceramics for use in prosthetic applications. <i>Ceramics International</i> , 2016 , 42, 1482-1491	5.1	35
94	SBA-15 ordered mesoporous silica inside a bioactive glass-ceramic scaffold for local drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 3303-10	4.5	35
93	Co-culture systems of osteoblasts and osteoclasts: Simulating in vitro bone remodeling in regenerative approaches. <i>Acta Biomaterialia</i> , 2020 , 108, 22-45	10.8	34
92	Characterisation of Bioglass based foams developed via replication of natural marine sponges. <i>Advances in Applied Ceramics</i> , 2015 , 114, S56-S62	2.3	34
91	Ultrasonic Characterisation of Porous Biomaterials Across Different Frequencies. <i>Strain</i> , 2009 , 45, 34-44	1.7	34
90	Zirconia-containing radiopaque mesoporous bioactive glasses. <i>Materials Letters</i> , 2014 , 130, 281-284	3.3	32
89	Novel phosphate glasses with different amounts of TiO ₂ for biomedical applications. <i>Materials Science and Engineering C</i> , 2011 , 31, 434-442	8.3	32
88	Synthesis and characterisation of bioactive and antibacterial glass-ceramic Part 1 [Microstructure, properties and biological behaviour. <i>Advances in Applied Ceramics</i> , 2008 , 107, 234-244	2.3	32
87	Fluoroapatite glass-ceramic coatings on alumina: structural, mechanical and biological characterisation. <i>Biomaterials</i> , 2002 , 23, 3395-403	15.6	32
86	Bonding strength of glass-ceramic trabecular-like coatings to ceramic substrates for prosthetic applications. <i>Materials Science and Engineering C</i> , 2013 , 33, 1530-8	8.3	31
85	Resorbable glass-ceramic phosphate-based scaffolds for bone tissue engineering: synthesis, properties, and in vitro effects on human marrow stromal cells. <i>Journal of Biomaterials Applications</i> , 2011 , 26, 465-89	2.9	31
84	Synthesis and incorporation of rod-like nano-hydroxyapatite into type I collagen matrix: A hybrid formulation for 3D printing of bone scaffolds. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3689-3697	6	30
83	Graded coatings on ceramic substrates for biomedical applications. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 2855-2862	6	30
82	Feasibility of glass-ceramic coatings on alumina prosthetic implants by airbrush spraying method. <i>Ceramics International</i> , 2015 , 41, 2150-2159	5.1	29
81	Feasibility and tailoring of bioactive glass-ceramic scaffolds with gradient of porosity for bone grafting. <i>Journal of Biomaterials Applications</i> , 2010 , 24, 693-712	2.9	29
80	Bioactive glass coatings fabricated by laser cladding on ceramic acetabular cups: a proof-of-concept study. <i>Journal of Materials Science</i> , 2017 , 52, 9115-9128	4.3	28
79	Collagen and non-collagenous proteins molecular crosstalk in the pathophysiology of osteoporosis. <i>Cytokine and Growth Factor Reviews</i> , 2019 , 49, 59-69	17.9	28

78	Biomimetic and mesoporous nano-hydroxyapatite for bone tissue application: a short review. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 022001	3.5	28
77	Bioactivity and Mechanical Stability of 45S5 Bioactive Glass Scaffolds Based on Natural Marine Sponges. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1881-93	4.7	28
76	Novel resorbable glass-ceramic scaffolds for hard tissue engineering: from the parent phosphate glass to its bone-like macroporous derivatives. <i>Journal of Biomaterials Applications</i> , 2014 , 28, 1287-303	2.9	27
75	Composite bone cements loaded with a bioactive and ferrimagnetic glass-ceramic. Part I: Morphological, mechanical and calorimetric characterization. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 254-267	2.9	26
74	Antioxidant mesoporous Ce-doped bioactive glass nanoparticles with anti-inflammatory and pro-osteogenic activities. <i>Materials Today Bio</i> , 2020 , 5, 100041	9.9	25
73	Composite Biomaterials Based on Sol-Gel Mesoporous Silicate Glasses: A Review. <i>Bioengineering</i> , 2017 , 4,	5.3	25
72	Uniform Surface Modification of 3D Bioglass(β)-Based Scaffolds with Mesoporous Silica Particles (MCM-41) for Enhancing Drug Delivery Capability. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 177	5.8	25
71	Engineered porous scaffolds for periprosthetic infection prevention. <i>Materials Science and Engineering C</i> , 2016 , 68, 701-715	8.3	25
70	Antibacterial Bioglass-Derived Scaffolds: Innovative Synthesis Approach and Characterization. <i>International Journal of Applied Glass Science</i> , 2016 , 7, 238-247	1.8	23
69	Type I Collagen and Strontium-Containing Mesoporous Glass Particles as Hybrid Material for 3D Printing of Bone-Like Materials. <i>Materials</i> , 2018 , 11,	3.5	22
68	Bioactive glass functionalized with alkaline phosphatase stimulates bone extracellular matrix deposition and calcification in vitro. <i>Applied Surface Science</i> , 2014 , 313, 372-381	6.7	20
67	SiO ₂ -CaO-K ₂ O coatings on alumina and Ti6Al4V substrates for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2005 , 16, 863-71	4.5	20
66	An aerosol-spray-assisted approach to produce mesoporous bioactive glass microspheres under mild acidic aqueous conditions. <i>Materials Letters</i> , 2017 , 190, 111-114	3.3	19
65	Micro-CT based finite element models for elastic properties of glass-ceramic scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 65, 248-255	4.1	19
64	Synthesis and characterisation of bioactive and antibacterial glass-ceramic Part 2 (plasma spray coatings on metallic substrates. <i>Advances in Applied Ceramics</i> , 2008 , 107, 245-253	2.3	19
63	Wollastonite-containing bioceramic coatings on alumina substrates: Design considerations and mechanical modelling. <i>Ceramics International</i> , 2015 , 41, 11464-11470	5.1	18
62	Al-MCM-41 inside a glass-ceramic scaffold: A meso-macroporous system for acid catalysis. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1535-1543	6	18
61	Bioresorbable glass effect on the physico-chemical properties of bilayered scaffolds for osteochondral regeneration. <i>Materials Letters</i> , 2012 , 89, 74-76	3.3	18

60	Resorbable hollow phosphate glass fibres as controlled release systems for biomedical applications. <i>Materials Letters</i> , 2013 , 99, 125-127	3.3	18
59	Newly-designed collagen/polyurethane bioartificial blend as coating on bioactive glass-ceramics for bone tissue engineering applications. <i>Materials Science and Engineering C</i> , 2019 , 96, 218-233	8.3	18
58	Pressure-activated microsyringe (PAM) fabrication of bioactive glass-poly(lactic-co-glycolic acid) composite scaffolds for bone tissue regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1986-1997	4.4	17
57	Mechanical characterization of glass-ceramic scaffolds at multiple characteristic lengths through nanoindentation. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2403-2409	6	17
56	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. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 728-36	2.9	17
55	Biocompatibility and antibacterial effect of silver doped 3D-glass-ceramic scaffolds for bone grafting. <i>Journal of Biomaterials Applications</i> , 2011 , 25, 595-617	2.9	17
54	Shock waves induce activity of human osteoblast-like cells in bioactive scaffolds. <i>Journal of Trauma</i> , 2010 , 68, 1439-44		17
53	Production and Physicochemical Characterization of Cu-Doped Silicate Bioceramic Scaffolds. <i>Materials</i> , 2018 , 11,	3.5	17
52	Quantifying the micro-architectural similarity of bioceramic scaffolds to bone. <i>Ceramics International</i> , 2017 , 43, 9443-9450	5.1	16
51	In Vitro Assessment of Bioactive Glass Coatings on Alumina/Zirconia Composite Implants for Potential Use in Prosthetic Applications. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	16
50	Physico-chemical and biological studies on three-dimensional porous silk/spray-dried mesoporous bioactive glass scaffolds. <i>Ceramics International</i> , 2016 , 42, 13761-13772	5.1	16
49	Surface functionalization of 3D glass/ceramic porous scaffolds for enhanced mineralization in vitro. <i>Applied Surface Science</i> , 2013 , 271, 412-420	6.7	15
48	Monodisperse Mesoporous Silica Spheres Inside a Bioactive Macroporous Glass/Ceramic Scaffold. <i>Advanced Engineering Materials</i> , 2010 , 12, B256-B259	3.5	15
47	Na ₂ O-CaO-SiO ₂ glass-ceramic matrix biocomposites. <i>Journal of Materials Science</i> , 2001 , 36, 2801-2807	4.3	15
46	Antibiotic loading on bioactive glasses and glass-ceramics: an approach to surface modification. <i>Journal of Biomaterials Applications</i> , 2013 , 28, 308-19	2.9	14
45	Multifunctional Copper-Containing Mesoporous Glass Nanoparticles as Antibacterial and Proangiogenic Agents for Chronic Wounds. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 246	5.8	14
44	Micromechanics of bioresorbable porous CEL2 glass ceramic scaffolds for bone tissue engineering. <i>Advances in Applied Ceramics</i> , 2008 , 107, 277-286	2.3	12
43	Coatings on Al ₂ O ₃ by bioactive glass-ceramics. <i>Acta Materialia</i> , 2000 , 48, 4667-4671	8.4	12

42	Collagen Hybrid Formulations for the 3D Printing of Nanostructured Bone Scaffolds: An Optimized Genipin-Crosslinking Strategy. <i>Nanomaterials</i> , 2020 , 10,	5.4	12
41	Ceramics for oculo-orbital surgery. <i>Ceramics International</i> , 2015 , 41, 5213-5231	5.1	11
40	Bioactive Glass-Ceramic Foam Scaffolds from Inorganic Gel Casting and Sinter-Crystallization. <i>Materials</i> , 2018 , 11,	3.5	11
39	Structure optimisation and biological evaluation of bone scaffolds prepared by co-sintering of silicate and phosphate glasses. <i>Advances in Applied Ceramics</i> , 2015 , 114, S48-S55	2.3	11
38	Novel systems for tailored neurotrophic factor release based on hydrogel and resorbable glass hollow fibers. <i>Materials Science and Engineering C</i> , 2014 , 36, 25-32	8.3	11
37	Effects of TiO ₂ -containing phosphate glasses on solubility and in vitro biocompatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 99, 295-306	5.4	11
36	Fluoroapatite glass-ceramic coating on alumina: surface behavior with biological fluids. <i>Journal of Biomedical Materials Research - Part A</i> , 2003 , 66, 615-21	5.4	11
35	Strontium-releasing mesoporous bioactive glasses with anti-adhesive zwitterionic surface as advanced biomaterials for bone tissue regeneration. <i>Journal of Colloid and Interface Science</i> , 2020 , 563, 92-103	9.3	10
34	Novel multifunctional strontium-copper co-substituted mesoporous bioactive particles. <i>Materials Letters</i> , 2018 , 223, 37-40	3.3	9
33	Spray-dried mesoporous silica spheres functionalized with carboxylic groups. <i>Materials Letters</i> , 2013 , 108, 118-121	3.3	9
32	Bone structural similarity score: a multiparametric tool to match properties of biomimetic bone substitutes with their target tissues. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016 , 14, e277-89	1.8	9
31	Glazing of alumina by a fluoroapatite-containing glass-ceramic. <i>Journal of Materials Science</i> , 2005 , 40, 1209-1215	4.3	8
30	Phosphate glass fibre scaffolds: Tailoring of the properties and enhancement of the bioactivity through mesoporous glass particles. <i>Materials Science and Engineering C</i> , 2016 , 67, 570-580	8.3	7
29	Novel Bone-Like Porous Glass Coatings on Al ₂ O ₃ Prosthetic Substrates. <i>Key Engineering Materials</i> , 2014 , 631, 236-240	0.4	7
28	In Vivo Validation of Spray-Dried Mesoporous Bioactive Glass Microspheres Acting as Prolonged Local Release Systems for BMP-2 to Support Bone Regeneration. <i>Pharmaceutics</i> , 2020 , 12,	6.4	7
27	Aerosol-assisted synthesis of mesoporous aluminosilicate microspheres: the effect of the aluminum precursor. <i>New Journal of Chemistry</i> , 2016 , 40, 4420-4427	3.6	6
26	Trabecular coating on curved alumina substrates using a novel bioactive and strong glass-ceramic. <i>Biomedical Glasses</i> , 2015 , 1,	2.7	6
25	Collagen/Polyurethane-Coated Bioactive Glass: Early Achievements towards the Modelling of Healthy and Osteoporotic Bone. <i>Key Engineering Materials</i> , 2014 , 631, 184-189	0.4	6

24	Silver Decorated Mesoporous Carbons for the Treatment of Acute and Chronic Wounds, in a Tissue Regeneration Context. <i>International Journal of Nanomedicine</i> , 2019 , 14, 10147-10164	7.3	6
23	Bioactive glass and glass/ceramic foam scaffolds for bone tissue restoration 2014 , 213-248		5
22	Spine-Ghost: A New Bioactive Cement for Vertebroplasty. <i>Key Engineering Materials</i> , 2014 , 631, 43-47	0.4	5
21	Preparation and investigation of a glass in the system Al ₂ O ₃ Bi ₂ O ₃ CaO for dental applications. <i>Materials Letters</i> , 2006 , 60, 3045-3047	3.3	5
20	Tailoring of Bone Scaffold Properties Using Silicate/Phosphate Glass Mixtures. <i>Key Engineering Materials</i> , 2014 , 631, 283-288	0.4	4
19	Bioresorbable Phosphate Scaffolds for Bone Regeneration. <i>Key Engineering Materials</i> , 2007 , 361-363, 241-244	0.4	4
18	Surface Functionalization of Biomaterials with Alkaline Phosphatase. <i>Key Engineering Materials</i> , 2007 , 361-363, 593-596	0.4	4
17	Sr-Containing Mesoporous Bioactive Glasses Bio-Functionalized with Recombinant ICOS-Fc: An In Vitro Study. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
16	Analysis of multiple protein detection methods in human osteoporotic bone extracellular matrix: From literature to practice. <i>Bone</i> , 2020 , 137, 115363	4.7	3
15	PEG-Coated Large Mesoporous Silicas as Smart Platform for Protein Delivery and Their Use in a Collagen-Based Formulation for 3D Printing. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
14	Sintering effects of bioactive glass incorporation in tricalcium phosphate scaffolds. <i>Materials Letters</i> , 2020 , 274, 128010	3.3	2
13	Microstructural characterization and robust comparison of ceramic porous orbital implants. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2988-2993	6	2
12	Glass-Ceramic Scaffolds and Shock Waves Effect on Cells Migration. <i>Key Engineering Materials</i> , 2007 , 361-363, 233-236	0.4	2
11	A shelf-life study of silica- and carbon-based mesoporous materials. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 101, 205-213	6.3	2
10	Bioactive Glass-Ceramics Coatings on Alumina. <i>Key Engineering Materials</i> , 2000 , 192-195, 123-126	0.4	1
9	Phosphate glass fibers for optical amplifiers and biomedical applications 2017 ,		1
8	Polyelectrolyte-Coated Mesoporous Bioactive Glasses via Layer-by-Layer Deposition for Sustained Co-Delivery of Therapeutic Ions and Drugs. <i>Pharmaceutics</i> , 2021 , 13,	6.4	1
7	Glass-Ceramic Matrix/ZrO ₂ Particle Biocomposites 2005 , 146-151		

6	Glass-Ceramics as Coatings for Prostheses. <i>Key Engineering Materials</i> , 2000 , 192-195, 279-282	0.4
5	Ultrasonic Characterization of Porous Biomaterials Across Different Frequencies 2007 , 505-506	
4	Bioactive Glass-Ceramic/Mesoporous Silica Composite Scaffolds for Bone Grafting and Drug Release. <i>Ceramic Transactions</i> ,123-129	0.1
3	Antibacterial Ag-Doped Glass-Ceramic Scaffolds. <i>Ceramic Transactions</i> ,77-84	0.1
2	Enzyme Grafting to Bioactive Glasses. <i>Ceramic Transactions</i> ,133-137	0.1
1	Imaging Techniques for the Assessment of the Bone Osteoporosis-Induced Variations with Particular Focus on Micro-CT Potential. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8939	2.6