Valeria Cannillo

List of Publications by Year
in descending order

176 papers	5,611 citations	66234 42 h-index	118652 62 g-index
178 all docs	178 docs citations	178 times ranked	4678 citing authors

#	Article	IF	Citations
1	Functionally graded materials for orthopedic applications â€“ an update on design and manufacturing. Biotechnology Advances, 2016, 34, 504-531.	6.0	223
2	Wear behaviour of thermally sprayed ceramic oxide coatings. Wear, 2006, 261, 1298-1315.	1.5	212
3	Mechanical and tribological properties of electrolytic hard chrome and HVOF-sprayed coatings. Surface and Coatings Technology, 2006, 200, 2995-3009.	2.2	120
4	Bioactive glass coatings: A review. Surface Engineering, 2011, 27, 560-572.	1.1	116
5	Enhancing the mechanical properties of porcelain stoneware tiles. Journal of the European Ceramic Society, 2001, 21, 785-793.	2.8	108
6	Hydroxyapatite and tricalcium phosphate composites with bioactive glass as second phase: State of the art and current applications. Journal of Biomedical Materials Research - Part A, 2016, 104, 1030-1056.	2.1	107
7	Production of BioglassÂ® 45S5 â€“ Polycaprolactone composite scaffolds via salt-leaching. Composite Structures, 2010, 92, 1823-1832.	3.1	100
8	Highly porous polycaprolactone-45S5 BioglassÂ® scaffolds for bone tissue engineering. Composites Science and Technology, 2010, 70, 1869-1878.	3.8	90
9	Bioactive Glass Applications: A Literature Review of Human Clinical Trials. Materials, 2021, 14, 5440.	1.3	90
10	Epoxy-silica nanocomposites: Preparation, experimental characterization, and modeling. Journal of Applied Polymer Science, 2005, 97, 2382-2386.	1.3	86
11	A Review of Bioactive Glass/Natural Polymer Composites: State of the Art. Materials, 2020, 13, 5560.	1.3	86
12	An overview of the effects of thermal processing on bioactive glasses. Science of Sintering, 2010, 42, 307-320.	0.5	86
13	Modeling of ceramic particles filled polymerâ€“matrix nanocomposites. Composites Science and Technology, 2006, 66, 1030-1037.	3.8	83
14	In situ Raman spectroscopy investigation of bioactive glass reactivity: Simulated body fluid solution vs TRIS-buffered solution. Materials Characterization, 2011, 62, 1021-1028.	1.9	83
15	Bioactive glass/hydroxyapatite composites: Mechanical properties and biological evaluation. Materials Science and Engineering C, 2015, 51, 196-205.	3.8	83
16	Macroporous BioglassÂ®-derived scaffolds for bone tissue regeneration. Ceramics International, 2011, 37, 1575-1585.	2.3	77
17	Role of magnesium oxide and strontium oxide as modifiers in silicate-based bioactive glasses: Effects on thermal behaviour, mechanical properties and in-vitro bioactivity. Materials Science and Engineering C, 2017, 72, 566-575.	3.8	74
18	Poly(Îµ-caprolactone)-based nanocomposites: Influence of compatibilization on properties of poly(Îµ-caprolactone)â€“silica nanocomposites. Composites Science and Technology, 2006, 66, 886-894.	3.8	70

#	ARTICLE	IF	CITATIONS
19	Microstructural and Tribological Investigation of High-Velocity Suspension Flame Sprayed (HVSFS) Al2O3 Coatings. Journal of Thermal Spray Technology, 2009, 18, 35-49.	1.6	66
20	A new hydroxyapatite-based biocomposite for bone replacement. Materials Science and Engineering C, 2013, 33, 1091-1101.	3.8	66
21	Properties of High Velocity Suspension Flame Sprayed (HVSFS) TiO2 coatings. Surface and Coatings Technology, 2009, 203, 1722-1732.	2.2	62
22	A Comprehensive Review of Bioactive Glass Coatings: State of the Art, Challenges and Future Perspectives. Coatings, 2020, 10, 757.	1.2	62
23	Functionally graded WCâ€“Co/NiAl HVOF coatings for damage tolerance, wear and corrosion protection. Surface and Coatings Technology, 2012, 206, 2585-2601.	2.2	61
24	Bioactive Zn-doped hydroxyapatite coatings and their antibacterial efficacy against Escherichia coli and Staphylococcus aureus. Surface and Coatings Technology, 2018, 352, 84-91.	2.2	60
25	Solâ€“gel derived bioactive glasses with low tendency to crystallize: Synthesis, post-sintering bioactivity and possible application for the production of porous scaffolds. Materials Science and Engineering C, 2014, 43, 573-586.	3.8	58
26	Microstructural and tribological comparison of HVOF-sprayed and post-treated Mâ€“Moâ€“Crâ€“Si (M=Co,) Tj ETQq0 0 0 rgBT /Overloc	1.5	55
27	Production and characterization of plasma-sprayed TiO2â€“hydroxyapatite functionally graded coatings. Journal of the European Ceramic Society, 2008, 28, 2161-2169.	2.8	55
28	Low Temperature Sintering of Innovative Bioactive Glasses. Journal of the American Ceramic Society, 2012, 95, 1313-1319.	1.9	55
29	Suspension thermal spraying of hydroxyapatite: Microstructure and in vitro behaviour. Materials Science and Engineering C, 2014, 34, 287-303.	3.8	55
30	Potassium-based composition for a bioactive glass. Ceramics International, 2009, 35, 3389-3393.	2.3	54
31	Microstructure and in vitro behaviour of 45S5 bioglass coatings deposited by high velocity suspension flame spraying (HVSFS). Journal of Materials Science: Materials in Medicine, 2011, 22, 1303-1319.	1.7	51
32	Suspension plasma sprayed bioactive glass coatings: Effects of processing on microstructure, mechanical properties and in-vitro behaviour. Surface and Coatings Technology, 2013, 220, 52-59.	2.2	51
33	Comparison between Suspension Plasma Sprayed and High Velocity Suspension Flame Sprayed bioactive coatings. Surface and Coatings Technology, 2015, 280, 232-249.	2.2	51
34	Different approaches to produce coatings with bioactive glasses: Enamelling vs plasma spraying. Journal of the European Ceramic Society, 2010, 30, 2031-2039.	2.8	50
35	Potassium based bioactive glass for bone tissue engineering. Ceramics International, 2010, 36, 2449-2453.	2.3	49
36	Plasma-sprayed glass-ceramic coatings on ceramic tiles: microstructure, chemical resistance and mechanical properties. Journal of the European Ceramic Society, 2005, 25, 1835-1853.	2.8	47

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37	Coefficient of thermal expansion of bioactive glasses: Available literature data and analytical equation estimates. Ceramics International, 2011, 37, 2963-2972.	2.3	46
38	High-Velocity Suspension Flame Sprayed (HVSFS) Hydroxyapatite Coatings for Biomedical Applications. Journal of Thermal Spray Technology, 2012, 21, 275-287.	1.6	45
39	Preparation, characterisation and computational study of poly(Îµ-caprolactone) based nanocomposites. Materials Science and Technology, 2004, 20, 1340-1344.	0.8	44
40	Damage tolerant functionally graded WCâ€“Co/Stainless Steel HVOF coatings. Surface and Coatings Technology, 2010, 205, 2197-2208.	2.2	44
41	Biomimetic coating on bioactive glassâ€derived scaffolds mimicking bone tissue. Journal of Biomedical Materials Research - Part A, 2012, 100A, 3259-3266.	2.1	44
42	SBF assays, direct and indirect cell culture tests to evaluate the biological performance of bioglasses and bioglass-based composites: Three paradigmatic cases. Materials Science and Engineering C, 2019, 96, 757-764.	3.8	44
43	Calcium and potassium addition to facilitate the sintering of bioactive glasses. Materials Letters, 2011, 65, 1825-1827.	1.3	43
44	Mg- and/or Sr-doped tricalcium phosphate/bioactive glass composites: Synthesis, microstructure and biological responsiveness. Materials Science and Engineering C, 2014, 42, 312-324.	3.8	43
45	A novel bioactive glass containing strontium and magnesium with ultra-high crystallization temperature. Materials Letters, 2018, 213, 67-70.	1.3	43
46	Processing glassâ€“pyrochlore composites for nuclear waste encapsulation. Journal of Nuclear Materials, 2005, 341, 12-18.	1.3	42
47	Suspension plasma spraying of optimised functionally graded coatings of bioactive glass/hydroxyapatite. Surface and Coatings Technology, 2013, 236, 118-126.	2.2	42
48	Composite scaffolds for controlled drug release: Role of the polyurethane nanoparticles on the physical properties and cell behaviour. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 44, 53-60.	1.5	42
49	Microstructural and in vitro characterisation of high-velocity suspension flame sprayed (HVSFS) bioactive glass coatings. Journal of the European Ceramic Society, 2009, 29, 2249-2257.	2.8	41
50	Cermet coatings with Fe-based matrix as alternative to WCâ€“CoCr: Mechanical and tribological behaviours. Surface and Coatings Technology, 2012, 206, 4079-4094.	2.2	41
51	Numerical models for thermal residual stresses in Al2O3 platelets/borosilicate glass matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 323, 246-250.	2.6	39
52	Microscale computational simulation and experimental measurement of thermal residual stresses in glassâ€“alumina functionally graded materials. Journal of the European Ceramic Society, 2006, 26, 1411-1419.	2.8	39
53	A comparative in vivo evaluation of bioactive glasses and bioactive glass-based composites for bone tissue repair. Materials Science and Engineering C, 2017, 79, 286-295.	3.8	39
54	In vitro characterisation of plasma-sprayed apatite/wollastonite glassâ€“ceramic biocoatings on titanium alloys. Journal of the European Ceramic Society, 2009, 29, 1665-1677.	2.8	38

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55	Heat treatment of Na₂Oâ€CaOâ€P₂O₅â€SiO₂ bioactive glasses: Densification processes and postsintering bioactivity. Journal of Biomedical Materials Research - Part A, 2012, 100A, 305-322.	2.1	38
56	Zinc containing bioactive glasses with ultra-high crystallization temperature, good biological performance and antibacterial effects. Materials Science and Engineering C, 2019, 104, 109910.	3.8	38
57	Effect of the suspension composition on the microstructural properties of high velocity suspension flame sprayed (HVSFS) Al2O3 coatings. Surface and Coatings Technology, 2010, 204, 1163-1179.	2.2	36
58	A new potassium-based bioactive glass: Sintering behaviour and possible applications for bioceramic scaffolds. Ceramics International, 2011, 37, 145-157.	2.3	36
59	Processing and characterization of innovative scaffolds for bone tissue engineering. Journal of Materials Science: Materials in Medicine, 2012, 23, 1397-1409.	1.7	36
60	Thermal and physical characterisation of apatite/wollastonite bioactive glassâ€“ceramics. Journal of the European Ceramic Society, 2009, 29, 611-619.	2.8	35
61	Shell Scaffolds: A new approach towards high strength bioceramic scaffolds for bone regeneration. Materials Letters, 2010, 64, 203-206.	1.3	35
62	Advances in High Velocity Suspension Flame Spraying (HVSFS). Surface and Coatings Technology, 2009, 203, 2131-2138.	2.2	34
63	A New Highly Bioactive Composite for Scaffold Applications: A Feasibility Study. Materials, 2011, 4, 339-354.	1.3	33
64	Microstructural design of functionally graded coatings composed of suspension plasma sprayed hydroxyapatite and bioactive glass. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 551-560.	1.6	32
65	Direct ink writing of silica-bonded calcite scaffolds from preceramic polymers and fillers. Biofabrication, 2017, 9, 025012.	3.7	32
66	Numerical modelling of the fracture behaviour of a glass matrix composite reinforced with alumina platelets. Composites Part A: Applied Science and Manufacturing, 2003, 34, 43-51.	3.8	31
67	Microstructure-based modelling and experimental investigation of crack propagation in glassâ€“alumina functionally graded materials. Journal of the European Ceramic Society, 2006, 26, 3067-3073.	2.8	31
68	Consolidation of different hydroxyapatite powders by SPS: Optimization of the sintering conditions and characterization of the obtained bulk products. Ceramics International, 2015, 41, 725-736.	2.3	31
69	Processing of novel glass matrix composites by microwave heating. Journal of Materials Processing Technology, 2004, 155-156, 1749-1755.	3.1	30
70	Composite Scaffolds for Bone Tissue Regeneration Based on PCL and Mg-Containing Bioactive Glasses. Biology, 2021, 10, 398.	1.3	30
71	Glass-alumina composite coatings by plasma spraying. Part I: Microstructural and mechanical characterization. Surface and Coatings Technology, 2006, 201, 458-473.	2.2	29
72	Wear behaviour of high velocity suspension flame sprayed (HVSFS) Al2O3 coatings produced using micron- and nano-sized powder suspensions. Surface and Coatings Technology, 2010, 204, 2657-2668.	2.2	29

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73	Classical BioglassÂ® and innovative CaO-rich bioglass powders processed by Spark Plasma Sintering: A comparative study. Journal of the European Ceramic Society, 2015, 35, 4277-4285.	2.8	29
74	Bioactive glass-based composites for the production of dense sintered bodies and porous scaffolds. Materials Science and Engineering C, 2013, 33, 2138-2151.	3.8	28
75	Computation and simulation of reliability parameters and their variations in heterogeneous materials. Acta Materialia, 2000, 48, 3593-3605.	3.8	27
76	Structural characterization of neodymium containing glasses by molecular dynamics simulation. Journal of Non-Crystalline Solids, 2005, 351, 1185-1191.	1.5	27
77	Investigation of High-Velocity Suspension Flame Sprayed (HVSFS) glass coatings. Materials Letters, 2008, 62, 2772-2775.	1.3	27
78	Role of process type and process conditions on phase content and physical properties of thermal sprayed TiO2 coatings. Journal of Materials Science, 2009, 44, 2276-2287.	1.7	27
79	Functional bioactive glass topcoats on hydroxyapatite coatings: Analysis of microstructure and in-vitro bioactivity. Surface and Coatings Technology, 2014, 240, 110-117.	2.2	27
80	Innovative hydroxyapatite/bioactive glass composites processed by spark plasma sintering for bone tissue repair. Journal of the European Ceramic Society, 2017, 37, 1723-1733.	2.8	27
81	Investigation of the mechanical properties of Mo-reinforced glass-matrix composites. Journal of Non-Crystalline Solids, 2004, 344, 88-93.	1.5	26
82	High velocity suspension flame sprayed (HVSFS) potassium-based bioactive glass coatings with and without TiO2 bond coat. Surface and Coatings Technology, 2012, 206, 3857-3868.	2.2	26
83	Properties of Al2O3 coatings by High Velocity Suspension Flame Spraying (HVSFS): Effects of injection systems and torch design. Surface and Coatings Technology, 2015, 270, 175-189.	2.2	26
84	Pulsed Electron Deposition of nanostructured bioactive glass coatings for biomedical applications. Ceramics International, 2017, 43, 15862-15867.	2.3	26
85	A New Bioactive Glass/Collagen Hybrid Composite for Applications in Dentistry. Materials, 2019, 12, 2079.	1.3	26
86	Characterization of glassâ€“alumina functionally graded coatings obtained by plasma spraying. Journal of the European Ceramic Society, 2007, 27, 1935-1943.	2.8	25
87	Bone Regeneration by Novel Bioactive Glasses Containing Strontium and/or Magnesium: A Preliminary In-Vivo Study. Materials, 2018, 11, 2223.	1.3	25
88	Human Mesenchymal Stem Cell Combined with a New Strontium-Enriched Bioactive Glass: An ex-vivo Model for Bone Regeneration. Materials, 2019, 12, 3633.	1.3	25
89	Control of pore size by metallic fibres in glass matrix composite foams produced by microwave heating. Journal of the European Ceramic Society, 2004, 24, 3203-3208.	2.8	24
90	Structural characterisation of High Velocity Suspension Flame Sprayed (HVSFS) TiO2 coatings. Surface and Coatings Technology, 2010, 204, 3902-3910.	2.2	24

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91	Preparation and experimental characterization of glassâ€“alumina functionally graded materials. Journal of the European Ceramic Society, 2006, 26, 993-1001.	2.8	23
92	Plasma-sprayed graded ceramic coatings on refractory materials for improved chemical resistance. Journal of the European Ceramic Society, 2006, 26, 2561-2579.	2.8	22
93	Prediction of the elastic properties profile in glass-alumina functionally graded materials. Journal of the European Ceramic Society, 2007, 27, 2393-2400.	2.8	22
94	A new bioactive glass with extremely high crystallization temperature and outstanding biological performance. Materials Science and Engineering C, 2020, 110, 110699.	3.8	22
95	Surface acoustic wave depth profiling of a functionally graded material. Journal of Applied Physics, 2007, 102, 053508.	1.1	21
96	Preparation and characterization of epoxy resins filled with submicron spherical zirconia particles. Polimery, 2006, 51, 794-798.	0.4	21
97	Glass-alumina functionally graded materials: their preparation and compositional profile evaluation. Journal of the European Ceramic Society, 2006, 26, 2685-2693.	2.8	20
98	Post-deposition laser treatment of plasma sprayed titania-hydroxyapatite functionally graded coatings. Journal of the European Ceramic Society, 2009, 29, 3147-3158.	2.8	20
99	Chemical durability and microstructural analysis of glasses soaked in water and in biological fluids. Ceramics International, 2009, 35, 2853-2869.	2.3	20
100	Characterization and in vitro-bioactivity of natural hydroxyapatite based bio-glassâ€“ceramics synthesized by thermal plasma processing. Ceramics International, 2010, 36, 1757-1766.	2.3	20
101	Deposition mechanisms in high velocity suspension spraying: Case study for two bioactive materials. Surface and Coatings Technology, 2012, 210, 28-45.	2.2	20
102	Incorporation of Bioactive Glasses Containing Mg, Sr, and Zn in Electrospun PCL Fibers by Using Benign Solvents. Applied Sciences (Switzerland), 2020, 10, 5530.	1.3	20
103	Chitosan-Based Bioactive Glass Gauze: Microstructural Properties, In Vitro Bioactivity, and Biological Tests. Materials, 2020, 13, 2819.	1.3	20
104	Influence of Al2O3 addition on thermal and structural properties of erbium doped glasses. Journal of Materials Science, 2006, 41, 2811-2819.	1.7	19
105	Enamelled coatings produced with low-alkaline bioactive glasses. Surface and Coatings Technology, 2014, 248, 1-8.	2.2	19
106	Hydroxyapatite/bioactive glass functionally graded materials (FGM) for bone tissue engineering. Journal of the European Ceramic Society, 2020, 40, 4623-4634.	2.8	19
107	Mechanical performance and fracture behaviour of glassâ€“matrix composites reinforced with molybdenum particles. Composites Science and Technology, 2005, 65, 1276-1283.	3.8	18
108	A New Generation of Electrospun Fibers Containing Bioactive Glass Particles for Wound Healing. Materials, 2020, 13, 5651.	1.3	18

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109	Title is missing!. Journal of Materials Science Letters, 2001, 20, 1889-1891.	0.5	17
110	Glassâ€“ceramic functionally graded materials produced with different methods. Journal of the European Ceramic Society, 2007, 27, 1293-1298.	2.8	17
111	Elaboration and mechanical characterization of multi-phase alumina-based ultra-fine composites. Journal of Materials Science, 2012, 47, 1077-1084.	1.7	17
112	Direct ink writing of silica-carbon-calcite composite scaffolds from a silicone resin and fillers. Journal of the European Ceramic Society, 2018, 38, 5200-5207.	2.8	17
113	Title is missing!. Journal of Porous Materials, 2003, 10, 189-200.	1.3	16
114	An FIB study of sharp indentation testing on plasma-sprayed TiO2. Materials Letters, 2008, 62, 1557-1560.	1.3	15
115	Microstructure and in-vitro behaviour of a novel High Velocity Suspension Flame Sprayed (HVSFS) bioactive glass coating. Surface and Coatings Technology, 2010, 205, 1145-1149.	2.2	15
116	Novel processing of bioglass ceramics from silicone resins containing microâ€•and nanoâ€sized oxide particle fillers. Journal of Biomedical Materials Research - Part A, 2014, 102, 2502-2510.	2.1	15
117	Bioglass and bioceramic composites processed by Spark Plasma Sintering (SPS): biological evaluation Versus SBF test. Biomedical Glasses, 2018, 4, 21-31.	2.4	15
118	Use of numerical approaches to predict mechanical properties of brittle bodies containing controlled porosity. Journal of Materials Science, 2004, 39, 4335-4337.	1.7	14
119	Design of a novel procedure for the optimization of the mechanical performances of 3D printed scaffolds for bone tissue engineering combining CAD, Taguchi method and FEA. Medical Engineering and Physics, 2019, 69, 92-99.	0.8	14
120	On the in Vitro Biocompatibility Testing of Bioactive Glasses. Materials, 2020, 13, 1816.	1.3	14
121	Toward the understanding of crystallization, mechanical properties and reactivity of multicomponent bioactive glasses. Acta Materialia, 2021, 213, 116977.	3.8	14
122	Experimental and MD Simulations Study of CaOâˆ'ZrO2âˆ'SiO2Glasses. Journal of Physical Chemistry B, 2003, 107, 6519-6525.	1.2	13
123	Design of Experiments (DOE) for the Optimization of Titaniaâ€“hydroxyapatite Functionally Graded Coatings. International Journal of Applied Ceramic Technology, 2009, 6, 537-550.	1.1	13
124	Effect of porosity on the elastic properties of porcelainized stoneware tiles by a multi-layered model. Ceramics International, 2009, 35, 205-211.	2.3	13
125	Bioactive glasses and glassâ€ceramics versus hydroxyapatite: Comparison of angiogenic potential and biological responsiveness. Journal of Biomedical Materials Research - Part A, 2019, 107, 2601-2609.	2.1	13
126	A Novel Bioactive Glass Containing Therapeutic Ions with Enhanced Biocompatibility. Materials, 2020, 13, 4600.	1.3	13

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127	In vitro studies of solution precursor plasmaâ€sprayed copperâ€doped hydroxyapatite coatings with increasing copper content. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2579-2589.	1.6	13
128	Design and optimisation of glassâ€"celsian composites. Composites Part A: Applied Science and Manufacturing, 2006, 37, 23-30.	3.8	12
129	Microstructural and mechanical changes by chemical ageing of glazed ceramic surfaces. Journal of the European Ceramic Society, 2009, 29, 1561-1569.	2.8	12
130	A New Highly Bioactive Composite for Bone Tissue Repair. International Journal of Applied Ceramic Technology, 2012, 9, 455-467.	1.1	12
131	Bioactive glass/ZrO ₂ composites for orthopaedic applications. Biomedical Materials (Bristol), 2014, 9, 015005.	1.7	12
132	Fabrication and Characterization of Quinary High Entropy-Ultra-High Temperature Diborides. Ceramics, 2021, 4, 108-120.	1.0	11
133	Preliminary studies on the valorization of animal flour ash for the obtainment of active glasses. Ceramics International, 2014, 40, 5619-5628.	2.3	10
134	Advanced Open-Celled Structures from Low-Temperature Sintering of a Crystallization-Resistant Bioactive Glass. Materials, 2019, 12, 3653.	1.3	10
135	Surface modification of Alâ€"Al2O3 composites by laser treatment. Optics and Lasers in Engineering, 2010, 48, 1266-1277.	2.0	9
136	Hydroxyapatiteâ€"tricalcium phosphateâ€"bioactive glass ternary composites. Ceramics International, 2014, 40, 3805-3808.	2.3	9
137	Bioactive Glasses in Periodontal Regeneration: Existing Strategies and Future Prospectsâ€"A Literature Review. Materials, 2022, 15, 2194.	1.3	9
138	The Anorthite-Diopside System: Structural and Devitrification Study. Part I: Structural Characterization by Molecular Dynamic Simulations. Journal of the American Ceramic Society, 2005, 88, 714-718.	1.9	8
139	<i>In vitro</i>behaviour of titaniaâ€"hydroxyapatite functionally graded coatings. Advances in Applied Ceramics, 2008, 107, 259-267.	0.6	8
140	Effects of a Novel Bioactive Glass Composition on Biological Properties of Human Dental Pulp Stem Cells. Materials, 2020, 13, 4049.	1.3	8
141	Deposition of bioactive glass coatings based on a novel composition containing strontium and magnesium. Journal of the European Ceramic Society, 2022, 42, 6213-6221.	2.8	8
142	Numerical Models of the Effect of Heterogeneity on the Behavior of Graded Materials. Key Engineering Materials, 2002, 206-213, 2163-2166.	0.4	7
143	Comparative Study on Bioactive Filler/Biopolymer Scaffolds for Potential Application in Supporting Bone Tissue Regeneration. ACS Applied Polymer Materials, 2022, 4, 4306-4318.	2.0	7
144	A stochastic model of damage accumulation in complex microstructures. Journal of Materials Science, 2005, 40, 3993-4004.	1.7	6

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145	Glassâ€"alumina composite coatings by plasma spraying. Part II: Microstructure-based modeling of mechanical properties. Surface and Coatings Technology, 2006, 201, 474-486.	2.2	6
146	Effects of different production techniques on glassâ€"alumina functionally graded materials. Ceramics International, 2008, 34, 1719-1727.	2.3	6
147	SPURIOUS RESONANCES IN NUMERICAL TIME INTEGRATION METHODS FOR LINEAR DYNAMICS. Journal of Sound and Vibration, 2000, 238, 389-399.	2.1	5
148	Local and medium range structure of erbium containing glasses: A molecular dynamics study. Journal of Non-Crystalline Solids, 2008, 354, 173-180.	1.5	5
149	Monte Carlo simulation of microstructure evolution in biphasic-systems. Ceramics International, 2010, 36, 1983-1988.	2.3	5
150	Characterisation of glass matrix composites reinforced with lead zirconate titanate particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 399, 281-291.	2.6	4
151	Sintering of metal fibre reinforced glass matrix composites using microwave radiation. Advances in Applied Ceramics, 2005, 104, 49-54.	0.6	4
152	Technological properties of celsian reinforced glass matrix composites. Ceramics International, 2007, 33, 1597-1601.	2.3	4
153	Cobalt doped glass for the fabrication of percolated glassâ€"alumina functionally graded materials. Ceramics International, 2008, 34, 447-453.	2.3	4
154	Electrochemical comparison between corrosion resistance of some thermally sprayed coatings. International Journal of Surface Science and Engineering, 2008, 2, 222.	0.4	4
155	Bioactivity of thermal plasma synthesized bovine hydroxyapatite/glass ceramic composites. Journal of Physics: Conference Series, 2010, 208, 012099.	0.3	4
156	Spark plasma sintering, mechanical and in-vitro behavior of a novel Sr- and Mg-containing bioactive glass for biomedical applications. Journal of the European Ceramic Society, 2022, 42, 1776-1783.	2.8	4
157	Properties/Structure Relationships in Innovative PCL-SiO2 Nanocomposites. Macromolecular Symposia, 2001, 169, 201-210.	0.4	3
158	A New Generation of Scaffolds for Bone Tissue Engineering. Advances in Science and Technology, 2010, 76, 48-53.	0.2	3
159	Spark plasma sintered CaO-rich bioglass-derived glass-ceramics with different crystallinity ratios: A detailed investigation of their behaviour during biological tests in SBF. Journal of the European Ceramic Society, 2019, 39, 1603-1612.	2.8	3
160	Impact of Surface Functionalization by Nanostructured Silver Thin Films on Thermoplastic Central Venous Catheters: Mechanical, Microscopical and Thermal Analyses. Coatings, 2020, 10, 1034.	1.2	3
161	Comparison of Three Manufacturing Techniques for Sustainable Porous Clay Ceramics. Materials, 2021, 14, 167.	1.3	3
162	Hermetic Glass Bodies with Controlled Porosity: Processing and Properties. Ceramic Engineering and Science Proceedings, 0, , 191-202.	0.1	2

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163	Porous Glasses with Controlled Porosity: Processing and Modelling of Mechanical Properties. Key Engineering Materials, 2004, 264-268, 2243-2246.	0.4	1
164	Experimental Characterization and Computational Simulation of Glass-Alumina Functionally Graded Surfaces. Materials Science Forum, 2005, 492-493, 647-652.	0.3	1
165	Glass-Alumina Functionally Graded Materials Produced by Plasma Spraying. Key Engineering Materials, 2007, 333, 227-230.	0.4	1
166	Short range investigation of sub-micron zirconia particles. Journal of Physics: Conference Series, 2009, 167, 012041.	0.3	1
167	Alumina-YAG composites: preparation, experimental characterisation and numerical modelling. International Journal of Materials and Product Technology, 2009, 35, 392.	0.1	1
168	Steel particlesâ€"porcelain stoneware composite tiles: An advanced experimentalâ€"computational approach. Journal of the European Ceramic Society, 2010, 30, 1775-1783.	2.8	1
169	Editorial: Covid-19: Materials Science and Engineering Challenges. Frontiers in Materials, 2021, 8, .	1.2	1
170	Editorial: Bioceramics and/or Bioactive Glass-Based Composites. Frontiers in Materials, 2021, 8, .	1.2	1
171	Finite element modelling of brittle matrix composites. , 2005, , 356-373.		1
172	Synthesis and Nanocomposite Sintering of Hydroxyapatite-Coated Zirconia Nanopowders. Advances in Science and Technology, 2006, 49, 68-73.	0.2	0
173	Synthesis and Thermal Stability of Hydroxyapatite-Coated Zirconia Nanocomposite Powders. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 128-134.	0.6	0
174	Bioglass and bioceramic composites processed by Spark Plasma Sintering (SPS): biological evaluation Versus SBF test. Biomedical Glasses, 2017, 3, .	2.4	0
175	Understanding Crystallization, Mechanical Properties and Reactivity of Multicomponent Bioactive Glasses Through Molecular Dynamics Simulations. SSRN Electronic Journal, 0, , .	0.4	0
176	Effect Of A Heat Treatment On The Bioactivity Of Titania-Hydroxyapatite Functionally Graded Coatings. , 0, , 101-108.		0