Paolo Colombo

List of Publications by Year
in descending order

261 papers	13,534 citations	20817 60 h-index	30922 102 g-index
283 all docs	283 docs citations	283 times ranked	8063 citing authors

#	Article	IF	Citations
1	Polymerâ€Derived Ceramics: 40 Years of Research and Innovation in Advanced Ceramics. Journal of the American Ceramic Society, 2010, 93, 1805-1837.	3.8	752
2	Additive Manufacturing of Ceramics: Issues, Potentialities, and Opportunities. Journal of the American Ceramic Society, 2015, 98, 1983-2001.	3.8	726
3	Conventional and novel processing methods for cellular ceramics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 109-124.	3.4	384
4	Stereolithography of SiOC Ceramic Microcomponents. Advanced Materials, 2016, 28, 370-376.	21.0	320
5	Processing, properties and applications of highly porous geopolymers: A review. Ceramics International, 2018, 44, 16103-16118.	4.8	279
6	Inertization and reuse of waste materials by vitrification and fabrication of glass-based products. Current Opinion in Solid State and Materials Science, 2003, 7, 225-239.	11.5	224
7	Chemical Durability of Silicon Oxycarbide Glasses. Journal of the American Ceramic Society, 2002, 85, 1529-1536.	3.8	214
8	Engineering porosity in polymer-derived ceramics. Journal of the European Ceramic Society, 2008, 28, 1389-1395.	5.7	204
9	Additive Manufacturing of Optically Transparent Glass. 3D Printing and Additive Manufacturing, 2015, 2, 92-105.	2.9	199
10	Fabrication of ceramic components with hierarchical porosity. Journal of Materials Science, 2010, 45, 5425-5455.	3.7	194
11	Macro- and micro-cellular porous ceramics from preceramic polymers. Composites Science and Technology, 2003, 63, 2353-2359.	7.8	170
12	Porous polymer derived ceramics. Materials Science and Engineering Reports, 2016, 106, 1-30.	31.8	167
13	Ceramic foams from preceramic polymers. Materials Research Innovations, 2002, 6, 260-272.	2.3	160
14	Characterization of the morphology of cellular ceramics by 3D image processing of X-ray tomography. Journal of the European Ceramic Society, 2007, 27, 1973-1981.	5.7	155
15	Silicon Oxycarbide Ceramic Foams from a Preceramic Polymer. Journal of the American Ceramic Society, 1999, 82, 573-578.	3.8	150
16	Microâ€Macroporous Ceramics from Preceramic Precursors. Journal of the American Ceramic Society, 2001, 84, 2252-2255.	3.8	147
17	Novel Microcellular Ceramics from a Silicone Resin. Journal of the American Ceramic Society, 2004, 87, 152-154.	3.8	137
18	Digital light processing of ceramic components from polysiloxanes. Journal of the European Ceramic Society, 2018, 38, 57-66.	5.7	135

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19	In Praise of Pores. Science, 2008, 322, 381-383.	12.6	132
20	Advanced Ceramics from Preceramic Polymers Modified at the Nano-Scale: A Review. Materials, 2014, 7, 1927-1956.	2.9	131
21	Mechanical Properties of Silicon Oxycarbide Ceramic Foams. Journal of the American Ceramic Society, 2001, 84, 2245-2251.	3.8	128
22	Additive Manufacturing of ceramic components by Digital Light Processing: A comparison between the â€œbottom-upâ€•and the â€œtop-downâ€•approaches. Journal of the European Ceramic Society, 2019, 39, 2140-2148.	5.7	127
23	Synthesis of Silicon Carbide Thin Films with Polycarbosilane (PCS). Journal of the American Ceramic Society, 1997, 80, 2333-2340.	3.8	125
24	Cellular Ceramics: Intriguing Structures, Novel Properties, and Innovative Applications. MRS Bulletin, 2003, 28, 296-300.	3.5	124
25	Geopolymer foams by gelcasting. Ceramics International, 2014, 40, 5723-5730.	4.8	124
26	Porosity, mechanical and insulating properties of geopolymer foams using vegetable oil as the stabilizing agent. Journal of the European Ceramic Society, 2018, 38, 799-805.	5.7	120
27	Direct ink writing of geopolymeric inks. Journal of the European Ceramic Society, 2017, 37, 2481-2489.	5.7	119
28	High-porosity geopolymer membrane supports by peroxide route with the addition of egg white as surfactant. Ceramics International, 2017, 43, 2267-2273.	4.8	115
29	Generation of multilayered structures for biomedical applications using a novel tri-needle coaxial device and electrohydrodynamic flow. Journal of the Royal Society Interface, 2008, 5, 1255-1261.	3.4	109
30	High strength metakaolin-based geopolymer foams with variable macroporous structure. Journal of the European Ceramic Society, 2016, 36, 4243-4249.	5.7	107
31	Porous geopolymer composites: A review. Composites Part A: Applied Science and Manufacturing, 2021, 150, 106629.	7.6	106
32	High-porosity geopolymer foams with tailored porosity for thermal insulation and wastewater treatment. Journal of Materials Research, 2017, 32, 3251-3259.	2.6	105
33	Direct Ink Writing of micrometric SiOC ceramic structures using a preceramic polymer. Journal of the European Ceramic Society, 2016, 36, 1589-1594.	5.7	104
34	Growth of Oneâ€Đimensional Nanostructures in Porous Polymerâ€Đerived Ceramics by Catalystâ€Assisted Pyrolysis. Part I: Iron Catalyst. Journal of the American Ceramic Society, 2010, 93, 959-968.	3.8	102
35	Silicon carbide-based foams from direct blowing of polycarbosilane. Journal of the European Ceramic Society, 2012, 32, 503-510.	5.7	101
36	Improving the properties of ceramic foams by a vacuum infiltration process. Journal of the European Ceramic Society, 2010, 30, 3005-3011.	5.7	98

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37	Direct ink writing of ceramic matrix composite structures. Journal of the American Ceramic Society, 2017, 100, 4397-4401.	3.8	98
38	Vitrification of industrial and natural wastes with production of glass fibres. Journal of the European Ceramic Society, 2000, 20, 2485-2490.	5.7	94
39	Enhanced hydrogen and methane gas storage of silicon oxycarbide derived carbon. Microporous and Mesoporous Materials, 2011, 144, 105-112.	4.4	94
40	Joining of SiC/SiCf ceramic matrix composites for fusion reactor blanket applications. Journal of Nuclear Materials, 2000, 278, 127-135.	2.7	91
41	Conductive Ceramic Foams from Preceramic Polymers. Journal of the American Ceramic Society, 2001, 84, 2265-2268.	3.8	90
42	Carbide-derived-carbons with hierarchical porosity from a preceramic polymer. Carbon, 2010, 48, 201-210.	10.3	89
43	Highly porous macro- and micro-cellular ceramics from a polysilazane precursor. Ceramics International, 2009, 35, 3281-3290.	4.8	88
44	Additive manufacturing of polymer-derived ceramics: Materials, technologies, properties and potential applications. Progress in Materials Science, 2022, 128, 100969.	32.8	84
45	Multifunctional advanced ceramics from preceramic polymers and nano-sized active fillers. Journal of the European Ceramic Society, 2013, 33, 453-469.	5.7	81
46	Waste-to-resource preparation of glass-containing foams from geopolymers. Ceramics International, 2019, 45, 7196-7202.	4.8	81
47	SiOC ceramics with ordered porosity by 3D-printing of a preceramic polymer. Journal of Materials Research, 2013, 28, 2243-2252.	2.6	80
48	Silicon oxycarbide glasses for blood-contact applications. Acta Biomaterialia, 2005, 1, 583-589.	8.3	79
49	Direct Ink Writing of a Preceramic Polymer and Fillers to Produce Hardystonite (Ca₂ZnSi₂O₇) Bioceramic Scaffolds. Journal of the American Ceramic Society, 2016, 99, 1960-1967.	3.8	79
50	Open cell geopolymer foams by a novel saponification/peroxide/gelcasting combined route. Journal of the European Ceramic Society, 2014, 34, 3133-3137.	5.7	77
51	Compositional and Microstructural Characterization of RuO2â€‰â€â€‰TiO2 Catalysts Synthesized by the Solâ€Gel Method. Journal of the Electrochemical Society, 1992, 139, 1655-1661.	2.9	76
52	Foaming of flat glass cullet using Si3N4 and MnO2 powders. Ceramics International, 2009, 35, 1953-1959.	4.8	76
53	Comparison of Microwave Hybrid and Conventional Heating of Preceramic Polymers to Form Silicon Carbide and Silicon Oxycarbide Ceramics. Journal of the American Ceramic Society, 2000, 83, 1617-1625.	3.8	72
54	3D Nanofabrication of SiOC Ceramic Structures. Advanced Science, 2018, 5, 1800937.	11.2	72

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55	Coating of metals by the sol-gel dip-coating method. Journal of the European Ceramic Society, 1992, 10, 431-436.	5.7	71
56	Giant piezoresistivity of polymer-derived ceramics at high temperatures. Journal of the European Ceramic Society, 2010, 30, 2203-2207.	5.7	70
57	Stresses Occurring during Joining of Ceramics Using Preceramic Polymers. Journal of the American Ceramic Society, 2001, 84, 2240-2244.	3.8	63
58	Borosilicate glass matrix composites containing multi-wall carbon nanotubes. Journal of the European Ceramic Society, 2005, 25, 1515-1523.	5.7	63
59	Growth of Oneâ€Dimensional Nanostructures in Porous Polymerâ€Derived Ceramics by Catalystâ€Assisted Pyrolysis. Part II: Cobalt Catalyst. Journal of the American Ceramic Society, 2010, 93, 3709-3719.	3.8	62
60	Ceramic microparticles and capsules via microfluidic processing of a preceramic polymer. Journal of the Royal Society Interface, 2010, 7, S461-73.	3.4	62
61	Additive manufacturing of ceramic materials for energy applications: Road map and opportunities. Journal of the European Ceramic Society, 2022, 42, 3049-3088.	5.7	62
62	Polymerâ€derived SiCN cellular structures from replica of 3D printed lattices. Journal of the American Ceramic Society, 2018, 101, 2732-2738.	3.8	60
63	Direct ink writing of wollastonite-diopside glass-ceramic scaffolds from a silicone resin and engineered fillers. Journal of the European Ceramic Society, 2017, 37, 4187-4195.	5.7	59
64	Complex mullite structures fabricated via digital light processing of a preceramic polysiloxane with active alumina fillers. Journal of the European Ceramic Society, 2019, 39, 1336-1343.	5.7	59
65	Ceramic Foams: Fabrication, Properties and Applications. Key Engineering Materials, 2002, 206-213, 1913-1918.	0.4	58
66	LAS glassâ€“ceramic scaffolds by three-dimensional printing. Journal of the European Ceramic Society, 2013, 33, 1525-1533.	5.7	57
67	Digital light processing of wollastonite-diopside glass-ceramic complex structures. Journal of the European Ceramic Society, 2018, 38, 4580-4584.	5.7	57
68	Gas Permeability of Microcellular Ceramic Foams. Industrial & Engineering Chemistry Research, 2007, 46, 3366-3372.	3.7	55
69	Ceramic foams and micro-beads from emulsions of a preceramic polymer. Journal of the European Ceramic Society, 2011, 31, 1481-1490.	5.7	54
70	Sintered and glazed glass-ceramics from natural and waste raw materials. Ceramics International, 2014, 40, 3543-3551.	4.8	54
71	Comparison of Ion Irradiation Effects in Siliconâ€Based Preceramic Thin Films. Journal of the American Ceramic Society, 2000, 83, 713-720.	3.8	53
72	Development of lightweight porcelain stoneware tiles using foaming agents. Journal of the European Ceramic Society, 2012, 32, 745-752.	5.7	53

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73	Title is missing!. Journal of Sol-Gel Science and Technology, 1998, 13, 195-199.	2.4	51
74	Effect of process parameters on the physical properties of porous geopolymers obtained by gelcasting. Ceramics International, 2014, 40, 13585-13590.	4.8	51
75	Polymer-derived microcellular SiOC foams with magnetic functionality. Journal of Materials Science, 2008, 43, 4119-4126.	3.7	50
76	Highly porous metals and ceramics. Materials Science and Technology, 2010, 26, 1145-1158.	1.6	50
77	Bioactive Glass and Silicate-Based Ceramic Coatings on Metallic Implants: Open Challenge or Outdated Topic?. Materials, 2019, 12, 2929.	2.9	50
78	Direct ink writing of porous titanium (Ti6Al4V) lattice structures. Materials Science and Engineering C, 2019, 103, 109794.	7.3	50
79	Enhanced electromagnetic microwave absorption of SiOC ceramics targeting the integration of structure and function. Journal of the European Ceramic Society, 2021, 41, 6393-6405.	5.7	50
80	Preparation, properties and applications of fly ash-based porous geopolymers: A review. Journal of Cleaner Production, 2022, 359, 132043.	9.3	50
81	Novel Mullite Synthesis Based on Alumina Nanoparticles and a Preceramic Polymer. Journal of the American Ceramic Society, 2006, 89, 1577-1583.	3.8	49
82	Low-temperature fabrication of SiC/geopolymer cellular composites. Composites Part B: Engineering, 2018, 137, 23-30.	12.0	49
83	Fused deposition modeling of mullite structures from a preceramic polymer and Î³-alumina. Journal of the European Ceramic Society, 2019, 39, 2463-2471.	5.7	49
84	Ag- or Cu-modified geopolymer filters for water treatment manufactured by 3D printing, direct foaming, or granulation. Scientific Reports, 2020, 10, 7233.	3.3	49
85	Geopolymer foams obtained by the saponification/peroxide/gelcasting combined route using different soap foam precursors. Journal of the American Ceramic Society, 2017, 100, 3440-3450.	3.8	48
86	A Direct Method for the Fabrication of Macroâ€Porous SiOC Ceramics from Preceramic Polymers. Advanced Engineering Materials, 2008, 10, 256-259.	3.5	47
87	Silicon Oxycarbide Foams from a Silicone Preceramic Polymer and Polyurethane. Journal of Sol-Gel Science and Technology, 1999, 14, 103-111.	2.4	46
88	Silicon carbide-based materials for joining silicon carbide composites for fusion energy applications. Journal of Nuclear Materials, 2002, 307-311, 1232-1236.	2.7	45
89	Kinetic Studies of Mullite Synthesis from Alumina Nanoparticles and a Preceramic Polymer. Journal of the American Ceramic Society, 2008, 91, 2529-2533.	3.8	45
90	Oxidation resistant ceramic foam from a silicone preceramic polymer/polyurethane blend. Journal of the European Ceramic Society, 2001, 21, 2821-2828.	5.7	44

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91	Electrospun SiOC ceramic fiber mats as freestanding electrodes for electrochemical energy storage applications. Ceramics International, 2020, 46, 3565-3573.	4.8	44
92	Open-cell phosphate-based geopolymer foams by frothing. Materials Letters, 2017, 188, 379-382.	2.6	43
93	Optimization and Characterization of Preceramic Inks for Direct Ink Writing of Ceramic Matrix Composite Structures. Materials, 2018, 11, 515.	2.9	43
94	SiOC Ceramic Foams through Melt Foaming of a Methylsilicone Preceramic Polymer. Journal of Porous Materials, 2003, 10, 113-121.	2.6	42
95	Thermal Shock Behavior of Silicon Oxycarbide Foams. Journal of the American Ceramic Society, 2002, 85, 2306-2312.	3.8	40
96	Novel glass-ceramic SOFC sealants from glass powders and a reactive silicone binder. Journal of the European Ceramic Society, 2018, 38, 4245-4251.	5.7	40
97	Removal of ammonium from wastewater with geopolymer sorbents fabricated via additive manufacturing. Materials and Design, 2020, 195, 109006.	7.0	40
98	Hierarchical Porosity Components by Infiltration of a Ceramic Foam. Journal of the American Ceramic Society, 2007, 90, 2172-2177.	3.8	39
99	Electrohydrodynamic forming of porous ceramic capsules from a preceramic polymer. Materials Letters, 2009, 63, 483-485.	2.6	38
100	SiAlON ceramics from preceramic polymers and nano-sized fillers: Application in ceramic joining. Journal of the European Ceramic Society, 2012, 32, 1329-1335.	5.7	38
101	In vitro and in vivo study of naturally derived alginate/hydroxyapatite bio composite scaffolds. International Journal of Biological Macromolecules, 2020, 165, 1346-1360.	7.5	38
102	Structure and composition of interlayers in joints between SiC bodies. Journal of the European Ceramic Society, 1997, 17, 1259-1265.	5.7	36
103	Bioactive Wollastonite-Diopside Foams from Preceramic Polymers and Reactive Oxide Fillers. Materials, 2015, 8, 2480-2494.	2.9	36
104	Lattice-shaped geopolymer catalyst for biodiesel synthesis fabricated by additive manufacturing. Ceramics International, 2019, 45, 1443-1446.	4.8	36
105	Engineering a material for biomedical applications with electric field assisted processing. Applied Physics A: Materials Science and Processing, 2009, 97, 31-37.	2.3	35
106	Advanced ceramics from a preceramic polymer and nano-fillers. Journal of the European Ceramic Society, 2009, 29, 843-849.	5.7	35
107	Development of multi-walled carbon nanotubes-based coatings on carbon-bonded alumina filters for steel melt filtration. Journal of the European Ceramic Society, 2015, 35, 1569-1580.	5.7	35
108	Development of bioactive silicate-based glass-ceramics from preceramic polymer and fillers. Journal of the European Ceramic Society, 2015, 35, 731-739.	5.7	35

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109	Bioactive Glass-Ceramic Scaffolds from Novel â€˜Inorganic Gel Castingâ€™ and Sinter-Crystallization. Materials, 2017, 10, 171.	2.9	35
110	Solâ€“gel synthesis and characterization of Ag2S nanocrystallites in silica thin film glasses. Journal of Materials Chemistry, 1999, 9, 2893-2898.	6.7	34
111	Silicon Carbide Films by Laser Pyrolysis of Polycarbosilane. Journal of the American Ceramic Society, 2001, 84, 224-226.	3.8	34
112	Novel akermanite-based bioceramics from preceramic polymers and oxide fillers. Ceramics International, 2014, 40, 1029-1035.	4.8	34
113	Hierarchical Porous Carbideâ€Derived Carbons for the Removal of Cytokines from Blood Plasma. Advanced Healthcare Materials, 2012, 1, 796-800.	7.6	33
114	Porous wollastoniteâ€“hydroxyapatite bioceramics from a preceramic polymer and micro- or nano-sized fillers. Journal of the European Ceramic Society, 2012, 32, 399-408.	5.7	33
115	Hierarchically structured polymer-derived ceramic fibers by electrospinning and catalyst-assisted pyrolysis. Journal of the European Ceramic Society, 2014, 34, 549-554.	5.7	33
116	Highly porous mullite ceramics from engineered alkali activated suspensions. Journal of the American Ceramic Society, 2018, 101, 1036-1041.	3.8	33
117	Ion Beam Induced Conversion of Si-Based Polymers and Gels Layers into Ceramics Coatings. Journal of Sol-Gel Science and Technology, 2003, 26, 251-255.	2.4	32
118	Preparation of Polymeric and Ceramic Porous Capsules by a Novel Electrohydrodynamic Process. Pharmaceutical Development and Technology, 2008, 13, 425-432.	2.4	32
119	Glassâ€“ceramics and composites containing aluminum borate whiskers. Ceramics International, 2010, 36, 1589-1596.	4.8	32
120	Biosilicate^{Â®} scaffolds produced by 3Dâ€printing and direct foaming using preceramic polymers. Journal of the American Ceramic Society, 2019, 102, 1010-1020.	3.8	32
121	3D printing of polymer-derived SiOC with hierarchical and tunable porosity. Additive Manufacturing, 2020, 36, 101549.	3.0	32
122	Effects of surfactants/stabilizing agents on the microstructure and properties of porous geopolymers by direct foaming. Journal of Asian Ceramic Societies, 2021, 9, 412-423.	2.3	32
123	Ceramic Microtubes from Preceramic Polymers. Journal of the American Ceramic Society, 2003, 86, 1025-1027.	3.8	31
124	Finite element analysis of reticulated ceramics under compression. Acta Materialia, 2012, 60, 6692-6702.	7.9	31
125	Open-celled silicon carbide foams with high porosity from boron-modified polycarbosilanes. Journal of the European Ceramic Society, 2019, 39, 5114-5122.	5.7	31
126	Developing uranium dicarbideâ€“graphite porous materials for the SPES project. Journal of Nuclear Materials, 2010, 404, 68-76.	2.7	30

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127	Novel 3D Wollastoniteâ€Based Scaffolds from Preceramic Polymers Containing Microâ€•and Nanoâ€Sized Reactive Particles. Advanced Engineering Materials, 2012, 14, 269-274.	3.5	30
128	Preceramic polymerâ€derived SiOC fibers by electrospinning. Journal of Applied Polymer Science, 2014, 131, .	2.6	30
129	Hardystonite bioceramics from preceramic polymers. Journal of the European Ceramic Society, 2016, 36, 829-835.	5.7	30
130	Ion Irradiation of Preceramic Polymer Thin Films. Journal of the American Ceramic Society, 1996, 79, 1967-1970.	3.8	29
131	SiAlON-Based Ceramics from Filled Preceramic Polymers. Journal of the American Ceramic Society, 2006, 89, 3839-3842.	3.8	29
132	Novel Preparation, Microstructure, and Properties of Polyacrylonitrile-Based Carbon Nanofiberâ€“Graphene Nanoplatelet Materials. ACS Omega, 2016, 1, 202-211.	3.5	28
133	Direct ink writing of three dimensional Ti2AlC porous structures. Additive Manufacturing, 2019, 28, 365-372.	3.0	28
134	The influence of sintering procedure and porosity on the properties of 3D printed alumina ceramic cores. Ceramics International, 2021, 47, 27668-27676.	4.8	28
135	Facile synthesis of porous geopolymers via the addition of a water-soluble pore forming agent. Ceramics International, 2022, 48, 2853-2864.	4.8	27
136	Novel co-axial electrohydrodynamicin-situpreparation of liquid-filled polymer-shell microspheres for biomedical applications. Journal of Microencapsulation, 2008, 25, 241-247.	2.8	26
137	Development of multiphase bioceramics from a filler-containing preceramic polymer. Ceramics International, 2009, 35, 1415-1421.	4.8	26
138	Evaluation of direct light processing for the fabrication of bioactive ceramic scaffolds: Effect of pore/strut size on manufacturability and mechanical performance. Journal of the European Ceramic Society, 2021, 41, 892-900.	5.7	26
139	Inertization of hazardous dredging spoils. Waste Management, 2002, 22, 865-869.	7.4	25
140	Lightweight Porcelain Stoneware by Engineered CeO₂ Addition. Advanced Engineering Materials, 2010, 12, 65-70.	3.5	25
141	Cordierite ceramics from silicone resins containing nano-sized oxide particle fillers. Ceramics International, 2013, 39, 8893-8899.	4.8	25
142	Characterization of porosity, structure, and mechanical properties of electrospun SiOC fiber mats. Journal of Materials Science, 2015, 50, 4221-4231.	3.7	25
143	Porous, Sintered Glassâ€Ceramics from Inorganic Polymers Based on Fayalite Slag. Journal of the American Ceramic Society, 2016, 99, 1985-1991.	3.8	25
144	Microstructure, thermal conductivity and simulation of elastic modulus of MAX-phase (Ti2AlC) gel-cast foams. Journal of the European Ceramic Society, 2018, 38, 3424-3432.	5.7	25

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145	Additive manufacturing of silicon carbide by selective laser sintering of PA12 powders and polymer infiltration and pyrolysis. Journal of the European Ceramic Society, 2021, 41, 5056-5065.	5.7	25
146	Polysiloxaneâ€Derived Ceramics Containing Nanowires with Catalytically Active Tips. Journal of the American Ceramic Society, 2014, 97, 959-966.	3.8	24
147	Facile one-pot formation of ceramic fibres from preceramic polymers by pressurised gyration. Ceramics International, 2015, 41, 6067-6073.	4.8	24
148	High-efficiency aerosol filters based on silicon carbide foams coated with ceramic nanowires. Separation and Purification Technology, 2015, 152, 180-191.	7.9	24
149	Hierarchically porous 3D-printed akermanite scaffolds from silicones and engineered fillers. Journal of the European Ceramic Society, 2019, 39, 4445-4449.	5.7	24
150	3D printed geopolymer: An efficient support for immobilization of Candida rugosa lipase. Chemical Engineering Journal, 2021, 414, 128843.	12.7	24
151	Decoration of Ceramic Foams by Ceramic Nanowires via Catalystâ€Assisted Pyrolysis of Preceramic Polymers. Journal of the American Ceramic Society, 2012, 95, 3071-3077.	3.8	23
152	Effect of MgO sintering additive on mullite structures manufactured by fused deposition modeling (FDM) technology. Journal of the European Ceramic Society, 2021, 41, 6677-6686.	5.7	23
153	Preparation of nasal cavity-like SiCâ€“Si3N4 foams with a hierarchical pore architecture. RSC Advances, 2015, 5, 27891-27900.	3.6	22
154	Engineering of silicone-based mixtures for the digital light processing of Ã…kermanite scaffolds. Journal of the European Ceramic Society, 2020, 40, 2566-2572.	5.7	22
155	A Novel Process for the Manufacture of Ceramic Microelectrodes for Biomedical Applications. International Journal of Applied Ceramic Technology, 2008, 5, 37-43.	2.1	21
156	Production of high-intensity RIB at SPES. Nuclear Physics A, 2010, 834, 754c-757c.	1.5	21
157	In situ spinel formation in Al2O3â€“MgOâ€“C filter materials for steel melt filtration. Ceramics International, 2014, 40, 13507-13513.	4.8	21
158	Silicon nitride foams from emulsions sintered by rapid intense thermal radiation. Journal of the European Ceramic Society, 2015, 35, 3263-3272.	5.7	21
159	Polymer-derived sphene biocoating on cp-Ti substrates for orthopedic and dental implants. Surface and Coatings Technology, 2016, 301, 140-147.	4.8	21
160	Bioactive Sphene-Based Ceramic Coatings on cpTi Substrates for Dental Implants: An In Vitro Study. Materials, 2018, 11, 2234.	2.9	21
161	Fabrication and characterization of hardystonite-chitosan biocomposite scaffolds. Ceramics International, 2019, 45, 8804-8814.	4.8	21
162	Fluence and current density dependence of silver nanocluster dimensions in ion-implanted fused silica. Journal of Materials Chemistry, 1998, 8, 457-461.	6.7	20

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163	Effect of Hypervelocity Impact on Microcellular Ceramic Foams from a Preceramic Polymer. Advanced Engineering Materials, 2003, 5, 802-805.	3.5	20
164	Ceramic foam-reinforced Al-based micro-composites. Composites Science and Technology, 2008, 68, 3202-3207.	7.8	20
165	The In Vitro Bioactivity, Degradation, and Cytotoxicity of Polymer-Derived Wollastonite-Diopside Glass-Ceramics. Materials, 2017, 10, 425.	2.9	20
166	Bioactive glass-ceramic scaffolds by additive manufacturing and sinter-crystallization of fine glass powders. Journal of Materials Research, 2018, 33, 1960-1971.	2.6	20
167	Biodiesel Processing Using Sodium and Potassium Geopolymer Powders as Heterogeneous Catalysts. Molecules, 2020, 25, 2839.	3.8	20
168	Suitability of BiosilicateÂ® glass-ceramic powder for additive manufacturing of highly porous scaffolds. Ceramics International, 2021, 47, 8200-8207.	4.8	20
169	Selected Emerging Opportunities for Ceramics in Energy, Environment, and Transportation. International Journal of Applied Ceramic Technology, 2013, 10, 731-739.	2.1	19
170	Microstructure Development and Dielectric Characterization of Forsteriteâ€Based Ceramics from Silicone Resins and Oxide Fillers. Advanced Engineering Materials, 2014, 16, 806-813.	3.5	19
171	Short-time performance of MWCNTs-coated Al 2 O 3 -C filters in a steel melt. Journal of the European Ceramic Society, 2016, 36, 857-866.	5.7	19
172	B-doped hardystonite bioceramics from preceramic polymers and fillers: Synthesis and application to foams and 3D-printed scaffolds. Journal of the European Ceramic Society, 2017, 37, 1757-1767.	5.7	19
173	Geopolymer beads and 3D printed lattices containing activated carbon and hydrotalcite for anionic dye removal. Catalysis Today, 2022, 390-391, 57-68.	4.4	19
174	Ceramic microspheres with controlled porosity by emulsion-ice templating. Journal of the European Ceramic Society, 2017, 37, 2559-2568.	5.7	18
175	Glass powders and reactive silicone binder: Interactions and application to additive manufacturing of bioactive glass-ceramic scaffolds. Ceramics International, 2019, 45, 13740-13746.	4.8	18
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