

Paolo Colombo

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1439819/paolo-colombo-publications-by-citations.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

276 papers	9,764 citations	55 h-index	87 g-index
283 ext. papers	11,241 ext. citations	5 avg, IF	6.82 L-index

#	Paper	IF	Citations
276	Additive Manufacturing of Ceramics: Issues, Potentialities, and Opportunities. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1983-2001	3.8	505
275	Conventional and novel processing methods for cellular ceramics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006 , 364, 109-24	3	333
274	Stereolithography of SiOC Ceramic Microcomponents. <i>Advanced Materials</i> , 2016 , 28, 370-6	24	219
273	Polymer-Derived Ceramics: 40 Years of Research and Innovation in Advanced Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, no-no	3.8	209
272	Chemical Durability of Silicon Oxycarbide Glasses. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 1529-1536	3.8	193
271	Inertization and reuse of waste materials by vitrification and fabrication of glass-based products. <i>Current Opinion in Solid State and Materials Science</i> , 2003 , 7, 225-239	12	190
270	Engineering porosity in polymer-derived ceramics. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 1389-1395	6	181
269	Fabrication of ceramic components with hierarchical porosity. <i>Journal of Materials Science</i> , 2010 , 45, 5425-5455	4.3	175
268	Macro- and micro-cellular porous ceramics from preceramic polymers. <i>Composites Science and Technology</i> , 2003 , 63, 2353-2359	8.6	155
267	Processing, properties and applications of highly porous geopolymers: A review. <i>Ceramics International</i> , 2018 , 44, 16103-16118	5.1	155
266	Additive Manufacturing of Optically Transparent Glass. <i>3D Printing and Additive Manufacturing</i> , 2015 , 2, 92-105	4	154
265	Ceramic foams from preceramic polymers. <i>Materials Research Innovations</i> , 2002 , 6, 260-272	1.9	144
264	Characterization of the morphology of cellular ceramics by 3D image processing of X-ray tomography. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 1973-1981	6	142
263	Micro-/Macroporous Ceramics from Preceramic Precursors. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2252-2255	3.8	130
262	Novel Microcellular Ceramics from a Silicone Resin. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 152-154	3.8	128
261	Silicon Oxycarbide Ceramic Foams from a Preceramic Polymer. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 573-578	3.8	127
260	Materials science. In praise of pores. <i>Science</i> , 2008 , 322, 381-3	33.3	120

259	Porous polymer derived ceramics. <i>Materials Science and Engineering Reports</i> , 2016 , 106, 1-30	30.9	119
258	Cellular Ceramics: Intriguing Structures, Novel Properties, and Innovative Applications. <i>MRS Bulletin</i> , 2003 , 28, 296-300	3.2	116
257	Mechanical Properties of Silicon Oxycarbide Ceramic Foams. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2245-2251	3.8	109
256	Synthesis of Silicon Carbide Thin Films with Polycarbosilane (PCS). <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2333-2340	3.8	103
255	Generation of multilayered structures for biomedical applications using a novel tri-needle coaxial device and electrohydrodynamic flow. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 1255-61	4.1	101
254	Geopolymer foams by gelcasting. <i>Ceramics International</i> , 2014 , 40, 5723-5730	5.1	97
253	Advanced Ceramics from Preceramic Polymers Modified at the Nano-Scale: A Review. <i>Materials</i> , 2014 , 7, 1927-1956	3.5	96
252	Growth of One-Dimensional Nanostructures in Porous Polymer-Derived Ceramics by Catalyst-Assisted Pyrolysis. Part I: Iron Catalyst. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 959-968	3.8	90
251	Silicon carbide-based foams from direct blowing of polycarbosilane. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 503-510	6	87
250	Highly porous macro- and micro-cellular ceramics from a polysilazane precursor. <i>Ceramics International</i> , 2009 , 35, 3281-3290	5.1	86
249	Joining of SiC/SiCf ceramic matrix composites for fusion reactor blanket applications. <i>Journal of Nuclear Materials</i> , 2000 , 278, 127-135	3.3	86
248	Digital light processing of ceramic components from polysiloxanes. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 57-66	6	86
247	Vitrification of industrial and natural wastes with production of glass fibres. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 2485-2490	6	84
246	Porosity, mechanical and insulating properties of geopolymer foams using vegetable oil as the stabilizing agent. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 799-805	6	83
245	Enhanced hydrogen and methane gas storage of silicon oxycarbide derived carbon. <i>Microporous and Mesoporous Materials</i> , 2011 , 144, 105-112	5.3	83
244	High-porosity geopolymer membrane supports by peroxide route with the addition of egg white as surfactant. <i>Ceramics International</i> , 2017 , 43, 2267-2273	5.1	82
243	Carbide-derived-carbons with hierarchical porosity from a preceramic polymer. <i>Carbon</i> , 2010 , 48, 201-210	10.4	82
242	Direct Ink Writing of micrometric SiOC ceramic structures using a preceramic polymer. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1589-1594	6	81

241	Improving the properties of ceramic foams by a vacuum infiltration process. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 3005-3011	6	80
240	Direct ink writing of geopolymeric inks. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 2481-2489	6	76
239	Additive Manufacturing of ceramic components by Digital Light Processing: A comparison between the Bottom-up and the Top-down Approaches. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2140-2148	6.48	75
238	High strength metakaolin-based geopolymer foams with variable macroporous structure. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 4243-4249	6	75
237	Silicon oxycarbide glasses for blood-contact applications. <i>Acta Biomaterialia</i> , 2005 , 1, 583-9	10.8	74
236	Conductive Ceramic Foams from Preceramic Polymers. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2265-2268	3.8	73
235	Compositional and Microstructural Characterization of RuO ₂ - TiO ₂ Catalysts Synthesized by the Sol-Gel Method. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 1655-1661	3.9	69
234	High-porosity geopolymer foams with tailored porosity for thermal insulation and wastewater treatment. <i>Journal of Materials Research</i> , 2017 , 32, 3251-3259	2.5	68
233	Multifunctional advanced ceramics from preceramic polymers and nano-sized active fillers. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 453-469	6	67
232	SiOC ceramics with ordered porosity by 3D-printing of a preceramic polymer. <i>Journal of Materials Research</i> , 2013 , 28, 2243-2252	2.5	67
231	Foaming of flat glass cullet using Si ₃ N ₄ and MnO ₂ powders. <i>Ceramics International</i> , 2009 , 35, 1953-1959	5.1	62
230	Open cell geopolymer foams by a novel saponification/peroxide/gelcasting combined route. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 3133-3137	6	61
229	Direct Ink Writing of a Preceramic Polymer and Fillers to Produce Hardystonite (Ca ₂ ZnSi ₂ O ₇) Bioceramic Scaffolds. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1960-1967	3.8	61
228	Giant piezoresistivity of polymer-derived ceramics at high temperatures. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2203-2207	6	59
227	Comparison of Microwave Hybrid and Conventional Heating of Preceramic Polymers to Form Silicon Carbide and Silicon Oxycarbide Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 1617-1625	3.8	59
226	Direct ink writing of ceramic matrix composite structures. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4397-4401	3.8	57
225	Ceramic microparticles and capsules via microfluidic processing of a preceramic polymer. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 4, S461-73	4.1	57
224	Stresses Occurring during Joining of Ceramics Using Preceramic Polymers. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2240-2244	3.8	57

223	Coating of metals by the sol-gel dip-coating method. <i>Journal of the European Ceramic Society</i> , 1992 , 10, 431-436	6	56
222	Growth of One-Dimensional Nanostructures in Porous Polymer-Derived Ceramics by Catalyst-Assisted Pyrolysis. Part II: Cobalt Catalyst. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3709-3719	3.8	55
221	Borosilicate glass matrix composites containing multi-wall carbon nanotubes. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 1515-1523	6	54
220	Gas Permeability of Microcellular Ceramic Foams. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 3366-3372	3.9	52
219	Comparison of Ion Irradiation Effects in Silicon-Based Preceramic Thin Films. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 713-720	3.8	51
218	Waste-to-resource preparation of glass-containing foams from geopolymers. <i>Ceramics International</i> , 2019 , 45, 7196-7202	5.1	51
217	3D Nanofabrication of SiOC Ceramic Structures. <i>Advanced Science</i> , 2018 , 5, 1800937	13.6	51
216	Ceramic Foams: Fabrication, Properties and Applications. <i>Key Engineering Materials</i> , 2001 , 206-213, 1913-1918	1.18	50
215	Polymer-derived microcellular SiOC foams with magnetic functionality. <i>Journal of Materials Science</i> , 2008 , 43, 4119-4126	4.3	47
214	Ceramic foams and micro-beads from emulsions of a preceramic polymer. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 1481-1490	6	46
213	Direct ink writing of wollastonite-diopside glass-ceramic scaffolds from a silicone resin and engineered fillers. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 4187-4195	6	45
212	Novel Mullite Synthesis Based on Alumina Nanoparticles and a Preceramic Polymer. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1577-1583	3.8	45
211	Sintered and glazed glass-ceramics from natural and waste raw materials. <i>Ceramics International</i> , 2014 , 40, 3543-3551	5.1	44
210	Highly porous metals and ceramics. <i>Materials Science and Technology</i> , 2010 , 26, 1145-1158	1.5	44
209	LAS glass/ceramic scaffolds by three-dimensional printing. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1525-1533	6	43
208	Development of lightweight porcelain stoneware tiles using foaming agents. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 745-752	6	42
207	Ceramic Foams from a Preceramic Polymer and Polyurethanes: Preparation and Morphological Investigations. <i>Journal of Sol-Gel Science and Technology</i> , 1998 , 13, 195-199	2.3	42
206	Oxidation resistant ceramic foam from a silicone preceramic polymer/polyurethane blend. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 2821-2828	6	42

205	A Direct Method for the Fabrication of Macro-Porous SiOC Ceramics from Preceramic Polymers. <i>Advanced Engineering Materials</i> , 2008 , 10, 256-259	3.5	40
204	Kinetic Studies of Mullite Synthesis from Alumina Nanoparticles and a Preceramic Polymer. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2529-2533	3.8	40
203	Silicon carbide-based materials for joining silicon carbide composites for fusion energy applications. <i>Journal of Nuclear Materials</i> , 2002 , 307-311, 1232-1236	3.3	40
202	Silicon Oxycarbide Foams from a Silicone Preceramic Polymer and Polyurethane. <i>Journal of Sol-Gel Science and Technology</i> , 1999 , 14, 103-111	2.3	40
201	Effect of process parameters on the physical properties of porous geopolymers obtained by gelcasting. <i>Ceramics International</i> , 2014 , 40, 13585-13590	5.1	39
200	Digital light processing of wollastonite-diopside glass-ceramic complex structures. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4580-4584	6	38
199	Thermal Shock Behavior of Silicon Oxycarbide Foams. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2306-2312	3.8	38
198	SiOC Ceramic Foams through Melt Foaming of a Methylsilicone Preceramic Polymer. <i>Journal of Porous Materials</i> , 2003 , 10, 113-121	2.4	38
197	Complex mullite structures fabricated via digital light processing of a preceramic polysiloxane with active alumina fillers. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1336-1343	6	38
196	Hierarchical Porosity Components by Infiltration of a Ceramic Foam. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2172-2177	3.8	37
195	Geopolymer foams obtained by the saponification/peroxide/gelcasting combined route using different soap foam precursors. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3440-3450	3.8	36
194	SiALON ceramics from preceramic polymers and nano-sized fillers: Application in ceramic joining. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 1329-1335	6	35
193	Electrohydrodynamic forming of porous ceramic capsules from a preceramic polymer. <i>Materials Letters</i> , 2009 , 63, 483-485	3.3	35
192	Polymer-derived SiCN cellular structures from replica of 3D printed lattices. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2732-2738	3.8	34
191	Advanced ceramics from a preceramic polymer and nano-fillers. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 843-849	6	33
190	Preparation of polymeric and ceramic porous capsules by a novel electrohydrodynamic process. <i>Pharmaceutical Development and Technology</i> , 2008 , 13, 425-32	3.4	32
189	Hierarchically structured polymer-derived ceramic fibers by electrospinning and catalyst-assisted pyrolysis. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 549-554	6	31
188	Engineering a material for biomedical applications with electric field assisted processing. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 97, 31-37	2.6	31

187	Development of multi-walled carbon nanotubes-based coatings on carbon-bonded alumina filters for steel melt filtration. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1569-1580	6	30
186	Hierarchical porous carbide-derived carbons for the removal of cytokines from blood plasma. <i>Advanced Healthcare Materials</i> , 2012 , 1, 796-800	10.1	30
185	Development of bioactive silicate-based glass-ceramics from preceramic polymer and fillers. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 731-739	6	29
184	Sol-gel synthesis and characterization of Ag ₂ S nanocrystallites in silica thin film glasses. <i>Journal of Materials Chemistry</i> , 1999 , 9, 2893-2898		29
183	Open-cell phosphate-based geopolymer foams by frothing. <i>Materials Letters</i> , 2017 , 188, 379-382	3.3	28
182	Bioactive Glass-Ceramic Scaffolds from Novel 'Inorganic Gel Casting' and Sinter-Crystallization. <i>Materials</i> , 2017 , 10,	3.5	28
181	Glass-ceramics and composites containing aluminum borate whiskers. <i>Ceramics International</i> , 2010 , 36, 1589-1596	5.1	28
180	Low-temperature fabrication of SiC/geopolymer cellular composites. <i>Composites Part B: Engineering</i> , 2018 , 137, 23-30	10	28
179	Porous wollastonite/hydroxyapatite bioceramics from a preceramic polymer and micro- or nano-sized fillers. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 399-408	6	27
178	Structure and composition of interlayers in joints between SiC bodies. <i>Journal of the European Ceramic Society</i> , 1997 , 17, 1259-1265	6	27
177	Silicon Carbide Films by Laser Pyrolysis of Polycarbosilane. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 224-226	3.8	27
176	Ion Irradiation of Preceramic Polymer Thin Films. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1967-1970	3.1	27
175	Porous geopolymer composites: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 150, 106629	8.4	27
174	Fused deposition modeling of mullite structures from a preceramic polymer and alumina. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2463-2471	6	26
173	Novel Preparation, Microstructure, and Properties of Polyacrylonitrile-Based Carbon Nanofiber-Graphene Nanoplatelet Materials. <i>ACS Omega</i> , 2016 , 1, 202-211	3.9	26
172	Novel akermanite-based bioceramics from preceramic polymers and oxide fillers. <i>Ceramics International</i> , 2014 , 40, 1029-1035	5.1	26
171	Finite element analysis of reticulated ceramics under compression. <i>Acta Materialia</i> , 2012 , 60, 6692-6702	8.4	26
170	Developing uranium dicarbide-graphite porous materials for the SPES project. <i>Journal of Nuclear Materials</i> , 2010 , 404, 68-76	3.3	26

169	Ion Beam Induced Conversion of Si-Based Polymers and Gels Layers into Ceramics Coatings. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 251-255	2.3	26
168	Ceramic Microtubes from Preceramic Polymers. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1025-1027	3.2	26
167	Novel glass-ceramic SOFC sealants from glass powders and a reactive silicone binder. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4245-4251	6	26
166	Bioactive Glass and Silicate-Based Ceramic Coatings on Metallic Implants: Open Challenge or Outdated Topic?. <i>Materials</i> , 2019 , 12,	3.5	25
165	Direct ink writing of porous titanium (Ti6Al4V) lattice structures. <i>Materials Science and Engineering C</i> , 2019 , 103, 109794	8.3	25
164	Bioactive Wollastonite-Diopside Foams from Preceramic Polymers and Reactive Oxide Fillers. <i>Materials</i> , 2015 , 8, 2480-2494	3.5	25
163	Novel 3D Wollastonite-Based Scaffolds from Preceramic Polymers Containing Micro- and Nano-Sized Reactive Particles. <i>Advanced Engineering Materials</i> , 2012 , 14, 269-274	3.5	25
162	Novel co-axial electrohydrodynamic in-situ preparation of liquid-filled polymer-shell microspheres for biomedical applications. <i>Journal of Microencapsulation</i> , 2008 , 25, 241-7	3.4	25
161	SiALON-Based Ceramics from Filled Preceramic Polymers. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3839-3842	3.8	25
160	Lattice-shaped geopolymer catalyst for biodiesel synthesis fabricated by additive manufacturing. <i>Ceramics International</i> , 2019 , 45, 1443-1446	5.1	23
159	Electrospun SiOC ceramic fiber mats as freestanding electrodes for electrochemical energy storage applications. <i>Ceramics International</i> , 2020 , 46, 3565-3573	5.1	23
158	Characterization of porosity, structure, and mechanical properties of electrospun SiOC fiber mats. <i>Journal of Materials Science</i> , 2015 , 50, 4221-4231	4.3	22
157	Ag- or Cu-modified geopolymer filters for water treatment manufactured by 3D printing, direct foaming, or granulation. <i>Scientific Reports</i> , 2020 , 10, 7233	4.9	22
156	Preceramic polymer-derived SiOC fibers by electrospinning. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	22
155	Development of multiphase bioceramics from a filler-containing preceramic polymer. <i>Ceramics International</i> , 2009 , 35, 1415-1421	5.1	22
154	Facile one-pot formation of ceramic fibres from preceramic polymers by pressurised gyration. <i>Ceramics International</i> , 2015 , 41, 6067-6073	5.1	21
153	High-efficiency aerosol filters based on silicon carbide foams coated with ceramic nanowires. <i>Separation and Purification Technology</i> , 2015 , 152, 180-191	8.3	21
152	Hardystonite bioceramics from preceramic polymers. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 829-835	6	21

151	Optimization and Characterization of Preceramic Inks for Direct Ink Writing of Ceramic Matrix Composite Structures. <i>Materials</i> , 2018 , 11,	3.5	21
150	Decoration of Ceramic Foams by Ceramic Nanowires via Catalyst-Assisted Pyrolysis of Preceramic Polymers. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3071-3077	3.8	21
149	Polysiloxane-Derived Ceramics Containing Nanowires with Catalytically Active Tips. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 959-966	3.8	21
148	Lightweight Porcelain Stoneware by Engineered CeO ₂ Addition. <i>Advanced Engineering Materials</i> , 2010 , 12, 65-70	3.5	21
147	Direct ink writing of three dimensional Ti ₂ AlC porous structures. <i>Additive Manufacturing</i> , 2019 , 28, 365-372	3.7	20
146	Fluence and current density dependence of silver nanocluster dimensions in ion-implanted fused silica. <i>Journal of Materials Chemistry</i> , 1998 , 8, 457-461		20
145	Silicon nitride foams from emulsions sintered by rapid intense thermal radiation. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3263-3272	6	19
144	Preparation of nasal cavity-like SiC/Bi ₃ N ₄ foams with a hierarchical pore architecture. <i>RSC Advances</i> , 2015 , 5, 27891-27900	3.7	19
143	Polymer-derived sphene biocoating on cp-Ti substrates for orthopedic and dental implants. <i>Surface and Coatings Technology</i> , 2016 , 301, 140-147	4.4	19
142	Cordierite ceramics from silicone resins containing nano-sized oxide particle fillers. <i>Ceramics International</i> , 2013 , 39, 8893-8899	5.1	19
141	Production of high-intensity RIB at SPES. <i>Nuclear Physics A</i> , 2010 , 834, 754c-757c	1.3	19
140	Ceramic foam-reinforced Al-based micro-composites. <i>Composites Science and Technology</i> , 2008 , 68, 3202-3207	3.2	19
139	A Novel Process for the Manufacture of Ceramic Microelectrodes for Biomedical Applications. <i>International Journal of Applied Ceramic Technology</i> , 2008 , 5, 37-43	2	19
138	Biosilicate scaffolds produced by 3D-printing and direct foaming using preceramic polymers. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 1010-1020	3.8	18
137	Inertization of hazardous dredging spoils. <i>Waste Management</i> , 2002 , 22, 865-9	8.6	18
136	Highly porous mullite ceramics from engineered alkali activated suspensions. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1036-1041	3.8	18
135	Microstructure, thermal conductivity and simulation of elastic modulus of MAX-phase (Ti ₂ AlC) gel-cast foams. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 3424-3432	6	17
134	Porous, Sintered Glass-Ceramics from Inorganic Polymers Based on Fayalite Slag. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1985-1991	3.8	17

133	Lanthanum carbide-based porous materials from carburization of lanthanum oxide and lanthanum oxalate mixtures. <i>Journal of Nuclear Materials</i> , 2008 , 378, 180-187	3.3	17
132	Effect of Hypervelocity Impact on Microcellular Ceramic Foams from a Pre ceramic Polymer. <i>Advanced Engineering Materials</i> , 2003 , 5, 802-805	3.5	17
131	Polymer-Derived Ceramics: 40 Years of Research and Innovation in Advanced Ceramics	245-320	17
130	B-doped hardystonite bioceramics from pre ceramic polymers and fillers: Synthesis and application to foams and 3D-printed scaffolds. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 1757-1767	6	16
129	Hierarchically porous 3D-printed akermanite scaffolds from silicones and engineered fillers. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 4445-4449	6	16
128	Novel synthesis and applications of yttrium silicates from a silicone resin containing oxide nano-particle fillers. <i>Ceramics International</i> , 2012 , 38, 5469-5474	5.1	16
127	Fabrication of mesoporous and high specific surface area lanthanum carbide-carbon nanotube composites. <i>Journal of Nuclear Materials</i> , 2009 , 385, 582-590	3.3	16
126	Short-time performance of MWCNTs-coated Al ₂ O ₃ -C filters in a steel melt. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 857-866	6	15
125	The In Vitro Bioactivity, Degradation, and Cytotoxicity of Polymer-Derived Wollastonite-Diopside Glass-Ceramics. <i>Materials</i> , 2017 , 10,	3.5	15
124	Selected Emerging Opportunities for Ceramics in Energy, Environment, and Transportation. <i>International Journal of Applied Ceramic Technology</i> , 2013 , 10, 731-739	2	15
123	Removal of ammonium from wastewater with geopolymer sorbents fabricated via additive manufacturing. <i>Materials and Design</i> , 2020 , 195, 109006	8.1	15
122	Bioactive Sphene-Based Ceramic Coatings on cpTi Substrates for Dental Implants: An In Vitro Study. <i>Materials</i> , 2018 , 11,	3.5	15
121	In situ carbon thermal reduction method for the production of electrospun metal/SiOC composite fibers. <i>Journal of Materials Science</i> , 2015 , 50, 2735-2746	4.3	14
120	Bioactive glass-ceramic scaffolds by additive manufacturing and sinter-crystallization of fine glass powders. <i>Journal of Materials Research</i> , 2018 , 33, 1960-1971	2.5	14
119	Ceramic microspheres with controlled porosity by emulsion-ice templating. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 2559-2568	6	13
118	Open-celled silicon carbide foams with high porosity from boron-modified polycarbosilanes. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 5114-5122	6	13
117	Microstructure Development and Dielectric Characterization of Forsterite-Based Ceramics from Silicone Resins and Oxide Fillers. <i>Advanced Engineering Materials</i> , 2014 , 16, 806-813	3.5	13
116	In situ spinel formation in Al ₂ O ₃ -MgO filter materials for steel melt filtration. <i>Ceramics International</i> , 2014 , 40, 13507-13513	5.1	13

115	Selective laser densification of lithium aluminosilicate glass ceramic tapes. <i>Applied Surface Science</i> , 2013 , 265, 610-614	6.7	13
114	Not All Microcracks are Born Equal: Thermal vs. Mechanical Microcracking in Porous Ceramics. <i>Ceramic Engineering and Science Proceedings</i> , 2011 , 137-152	0.1	13
113	Mullite/Zirconia Nanocomposites from a Preceramic Polymer and Nanosized Fillers. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1357-1362	3.8	13
112	SiOC glass modified by montmorillonite clay. <i>Ceramics International</i> , 2006 , 32, 679-686	5.1	13
111	Highly Porous Sr/Mg-Doped Hardystonite Bioceramics from Preceramic Polymers and Reactive Fillers: Direct Foaming and Direct Ink Writing. <i>Advanced Engineering Materials</i> , 2019 , 21, 1800900	3.5	13
110	Enhanced electromagnetic microwave absorption of SiOC ceramics targeting the integration of structure and function. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 6393-6405	6	13
109	Comparative Analysis of Wollastonite-Diopside Glass-Ceramic Structures Fabricated via Stereo-Lithography. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801160	3.5	12
108	Functional Coatings on Carbon-Bonded Ceramic Foam Filters for Steel Melt Filtration. <i>Steel Research International</i> , 2016 , 87, 1030-1037	1.6	12
107	Low temperature synthesis of zircon from silicone resins and oxide nano-sized particles. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2819-2824	6	12
106	Rapid sintering of silicon nitride foams decorated with one-dimensional nanostructures by intense thermal radiation. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 045003	7.1	12
105	Novel processing of bioglass ceramics from silicone resins containing micro- and nano-sized oxide particle fillers. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2502-10	5.4	12
104	Synthesis of a Ni-Containing Porous SiOC Material From Polyphenylmethylsiloxane by a Direct Foaming Technique. <i>Advanced Engineering Materials</i> , 2012 , 14, 1116-1122	3.5	12
103	Wollastonite Foams From an Extruded Preceramic Polymer Mixed with CaCO ₃ Microparticles Assisted by Supercritical Carbon Dioxide. <i>Advanced Engineering Materials</i> , 2013 , 15, 60-65	3.5	12
102	In vitro and in vivo study of naturally derived alginate/hydroxyapatite bio composite scaffolds. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 1346-1360	7.9	12
101	Ovalbumin as foaming agent for Ti6Al4V foams produced by gelcasting. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 839-844	5.7	11
100	Direct ink writing of silica-carbon-calcite composite scaffolds from a silicone resin and fillers. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 5200-5207	6	11
99	Bioactive Glass-Ceramic Foam Scaffolds from 'Inorganic Gel Casting' and Sinter-Crystallization. <i>Materials</i> , 2018 , 11,	3.5	11
98	Influence of the loading direction on the mechanical behavior of ceramic foams and lattices under compression. <i>Acta Materialia</i> , 2013 , 61, 5525-5534	8.4	11

97	Porous materials: Less is more. <i>Journal of Materials Research</i> , 2013 , 28, 2187-2190	2.5	11
96	Tribology Structure Relationships in Silicon Oxycarbide Thin Films. <i>International Journal of Applied Ceramic Technology</i> , 2009 , 7, 675-686	2	11
95	Fabrication and characterization of hardystonite-chitosan biocomposite scaffolds. <i>Ceramics International</i> , 2019 , 45, 8804-8814	5.1	10
94	Complex SiOC ceramics from 2D structures by 3D printing and origami. <i>Additive Manufacturing</i> , 2020 , 33, 101144	6.1	10
93	Glass powders and reactive silicone binder: Interactions and application to additive manufacturing of bioactive glass-ceramic scaffolds. <i>Ceramics International</i> , 2019 , 45, 13740-13746	5.1	9
92	Biodiesel Processing Using Sodium and Potassium Geopolymer Powders as Heterogeneous Catalysts. <i>Molecules</i> , 2020 , 25,	4.8	9
91	Multiscale ceramic components from preceramic polymers by hybridization of vat polymerization-based technologies. <i>Additive Manufacturing</i> , 2019 , 30, 100913	6.1	9
90	Influence of the dipping coating procedure on the mechanical strength of soda-lime glass rods. <i>Journal of Non-Crystalline Solids</i> , 1988 , 100, 461-465	3.9	9
89	Effects of surfactants/stabilizing agents on the microstructure and properties of porous geopolymers by direct foaming. <i>Journal of Asian Ceramic Societies</i> , 2021 , 9, 412-423	2.4	9
88	Optimization of Phase Purity of β -Sialon Ceramics Produced from Silazanes and Nano-Sized Alumina. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2148-2154	3.8	8
87	Conversion of organic-inorganic polymers to ceramics by ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 120, 262-265	1.2	8
86	3D printing of polymer-derived SiOC with hierarchical and tunable porosity. <i>Additive Manufacturing</i> , 2020 , 36, 101549	6.1	8
85	3D printed geopolymer: An efficient support for immobilization of Candida rugosa lipase. <i>Chemical Engineering Journal</i> , 2021 , 414, 128843	14.7	8
84	Advanced Open-Celled Structures from Low-Temperature Sintering of a Crystallization-Resistant Bioactive Glass. <i>Materials</i> , 2019 , 12,	3.5	8
83	Preparation and properties of biomorphic potassium-based geopolymer (KGP)-biocarbon (CB) composite. <i>Ceramics International</i> , 2018 , 44, 12957-12964	5.1	7
82	Preparation and morphology of magnesium borate fibers via electrospinning. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2593-2599	6	7
81	Advanced Oxide Ceramics from a Preceramic Polymer and Fillers. <i>Soft Materials</i> , 2007 , 4, 175-185	1.7	7
80	Electrically Conducting PbyOxBiO ₂ Glass Films Deposited by Reactive Radio-Frequency Magnetron Sputtering. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 2930-2932	3.8	7

79	Engineering of silicone-based mixtures for the digital light processing of germanite scaffolds. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2566-2572	6	7
78	Embedded direct ink writing of freeform ceramic components. <i>Applied Materials Today</i> , 2021 , 23, 101005	5.6	7
77	Suitability of Biosilicate® glass-ceramic powder for additive manufacturing of highly porous scaffolds. <i>Ceramics International</i> , 2021 , 47, 8200-8207	5.1	7
76	Influence of the thermal treatment on the characteristics of porous geopolymers as potential biomaterials. <i>Materials Science and Engineering C</i> , 2020 , 116, 111171	8.3	6
75	Effect of heat treatment conditions on magnesium borate fibers prepared via electrospinning. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4109-4117	6	6
74	Structural optimization of printed structures by self-organized relaxation. <i>Rapid Prototyping Journal</i> , 2016 , 22, 344-349	3.8	6
73	Porosity effect on microstructure, mechanical, and fluid dynamic properties of Ti2AlC by direct foaming and gel-casting. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 5346-5357	3.8	6
72	Reticulated SIC Foam X-Ray CT, Meshing, and Simulation. <i>Ceramic Engineering and Science Proceedings</i> , 2010 , 93-104	0.1	6
71	Highly Porous Polymer-Derived Bioceramics Based on a Complex Hardystonite Solid Solution. <i>Materials</i> , 2019 , 12,	3.5	6
70	Hydroxyapatite-coated ZrO2 scaffolds with a fluorapatite intermediate layer produced by direct ink writing. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 920-928	6	6
69	Evaluation of direct light processing for the fabrication of bioactive ceramic scaffolds: Effect of pore/strut size on manufacturability and mechanical performance. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 892-900	6	6
68	Additive manufacturing of SiOC scaffolds with tunable structure-performance relationship. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 7552-7552	6	6
67	Additive Manufacturing of Polymer-Derived Ceramics: Materials, Technologies, Properties and Potential Applications. <i>Progress in Materials Science</i> , 2022 , 100969	42.2	6
66	In Situ Reinforcement of Ti6Al4V Matrix Composites by Polymer-Derived-Ceramics Phases. <i>Advanced Engineering Materials</i> , 2015 , 17, 866-875	3.5	5
65	Metakaolin-based geopolymer coatings on metals by airbrush spray deposition 2020 , 17, 991-1002		5
64	Potential Toxicity of Bioactive Borate Glasses In-Vitro and In-Vivo. <i>Ceramic Engineering and Science Proceedings</i> , 2012 , 65-74	0.1	5
63	Sol-gel processing of nanocrystalline haematite thin films. <i>Journal of Materials Research</i> , 1997 , 12, 1441-1444	14.4	5
62	Additive manufacturing of ceramic materials for energy applications: Road map and opportunities. <i>Journal of the European Ceramic Society</i> , 2022 ,	6	5

61	Fabrication and properties of slag-based geopolymer syntactic foams containing hollow glass microspheres. <i>Materials Letters</i> , 2021 , 308, 131158	3.3	5
60	Additive manufacturing of silicon carbide by selective laser sintering of PA12 powders and polymer infiltration and pyrolysis. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 5056-5065	6	5
59	Effect of MgO sintering additive on mullite structures manufactured by fused deposition modeling (FDM) technology. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 6677-6686	6	5
58	The influence of sintering procedure and porosity on the properties of 3D printed alumina ceramic cores. <i>Ceramics International</i> , 2021 , 47, 27668-27676	5.1	5
57	Ti/Ti ₃ SiC ₂ (/TiC) Bulk and Foam Composites by Pyrolysis of Polycarbosilane and TiH ₂ Mixtures . <i>Advanced Engineering Materials</i> , 2017 , 19, 1600700	3.5	4
56	Siliconboronoxycarbide (SIBOC) Foam from Methyl Borosiloxane. <i>Ceramic Transactions</i> , 2014 , 47-60	0.1	4
55	Pre-ceramic Polymer-Derived SiAlON as Sintering Aid for Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3407-3412	3.8	4
54	Cu/ZSM5-Geopolymer 3D-Printed Monoliths for the NH ₃ -SCR of NO _x . <i>Catalysts</i> , 2021 , 11, 1212	4	4
53	Glass powders and reactive silicone binder: Application to digital light processing of bioactive glass-ceramic scaffolds. <i>Ceramics International</i> , 2020 , 46, 25299-25305	5.1	4
52	Using ductile cores for enhancing the mechanical performance of hollow strut TCP scaffolds fabricated by digital light processing. <i>Ceramics International</i> , 2021 , 47, 10163-10173	5.1	4
51	The effect of fillers on the fresh and hardened properties of 3D printed geopolymer lattices. <i>Open Ceramics</i> , 2021 , 6, 100134	3.3	4
50	Cytokine Removal: Hierarchical Porous Carbide-Derived Carbons for the Removal of Cytokines from Blood Plasma (Adv. Healthcare Mater. 6/2012). <i>Advanced Healthcare Materials</i> , 2012 , 1, 682-682	10.1	3
49	Extruded ceramic microelectrodes for biomedical applications. <i>International Journal of Artificial Organs</i> , 2008 , 31, 272-8	1.9	3
48	Silicate glass films deposited by reactive r.f. magnetron sputtering: electrical characterization. <i>Thin Solid Films</i> , 1994 , 241, 25-29	2.2	3
47	Thermal evolution of Fe ₂ O ₃ -TiO ₂ sol-gel thin films. <i>Journal of the European Ceramic Society</i> , 1991 , 8, 383-388	6	3
46	Facile synthesis of porous geopolymers via the addition of a water-soluble pore forming agent. <i>Ceramics International</i> , 2021 , 48, 2853-2853	5.1	3
45	Novel bioceramics from digital light processing of calcite/acrylate blends and low temperature pyrolysis. <i>Ceramics International</i> , 2020 , 46, 17140-17145	5.1	3
44	Osteogenic Properties of 3D-Printed Silica-Carbon-Calcite Composite Scaffolds: Novel Approach for Personalized Bone Tissue Regeneration. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3

43	Porous Polymer Derived Ceramics Decorated with in-situ Grown Nanowires. <i>Ceramic Transactions</i> , 95-103, 2010.	0.1	3
42	An In Vivo Study in Rat Femurs of Bioactive Silicate Coatings on Titanium Dental Implants. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	2
41	Applications of polymer derived ceramics. <i>Advances in Applied Ceramics</i> , 2009 , 108, 453-453	2.3	2
40	Glasses and ceramics from waste. <i>Advances in Applied Ceramics</i> , 2009 , 108, 1-1	2.3	2
39	SiOC Ceramic Monoliths with Hierarchical Porosity. <i>International Journal of Applied Ceramic Technology</i> , 2009 , 7, 528	2	2
38	Geopolymer beads and 3D printed lattices containing activated carbon and hydrotalcite for anionic dye removal. <i>Catalysis Today</i> , 2021 ,	5.3	2
37	Glass-ceramic foams and reticulated scaffolds by sinter-crystallization of a hardystonite glass. <i>Journal of Non-Crystalline Solids</i> , 2020 , 528, 119744	3.9	2
36	Additive Manufacturing 2021 , 203-221		2
35	Biofunctionalization of bioactive ceramic scaffolds to increase the cell response for bone regeneration. <i>Biomedical Materials (Bristol)</i> , 2021 , 16,	3.5	2
34	Direct Ink Writing of cylindrical lattice structures: A proof of concept. <i>Open Ceramics</i> , 2021 , 7, 100139	3.3	2
33	Mullite Monoliths, Coatings and Composites from a Preceramic Polymer Containing Alumina Nano-Sized Particles. <i>Ceramic Transactions</i> , 51-60	0.1	2
32	Joining SiC-Based Ceramics and Composites with Preceramic Polymers. <i>Ceramic Transactions</i> , 323-334	0.1	2
31	Preparation, properties and applications of fly ash-based porous geopolymers: A review. <i>Journal of Cleaner Production</i> , 2022 , 359, 132043	10.3	2
30	Cellular Structures 2014 , 407-441		1
29	Cellular Structures 2011 , 407-441		1
28	Other Developments and Special Applications 2006 , 596-620		1
27	Printing glass in the nano. <i>Nature Materials</i> , 2021 , 20, 1454-1456	27	1
26	Additive manufacturing and direct synthesis of sphere ceramic scaffolds from a silicone resin and reactive fillers. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 286-295	6	1

25	Fabrication of ceramic particles from preceramic polymers using stop flow lithography. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 3314-3320	6	1
24	Large scale additive manufacturing of artificial stone components using binder jetting and their X-ray microtomography investigations. <i>Open Ceramics</i> , 2021 , 7, 100162	3.3	1
23	Fabrication of dense SiSiC ceramics by a hybrid additive manufacturing process. <i>Journal of the American Ceramic Society</i> ,	3.8	1
22	Polymer-Derived Biosilicate-like Glass-Ceramics: Engineering of Formulations and Additive Manufacturing of Three-Dimensional Scaffolds. <i>Materials</i> , 2021 , 14,	3.5	1
21	Polymer-derived Biosilicate-C composite foams: Phase development and photothermal effect. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 380-380	6	1
20	Ceramic-Polymer Composites for Ballistic Protection. <i>Ceramic Transactions</i> , 79-89	0.1	1
19	Vitrification of Waste and Reuse of Waste-Derived Glass 2017 , 1-34		0
18	Alkali-free processing of advanced open-celled sinter-crystallized glass-ceramics. <i>International Journal of Applied Glass Science</i> , 2021 , 12, 531-540	1.8	0
17	Bermanite glass microspheres: Preparation and perspectives of sinter-crystallization. <i>International Journal of Applied Glass Science</i> , 2021 , 12, 551-561	1.8	0
16	Enhanced 3D printed alumina ceramic cores via impregnation. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 181	3.8	0
15	Glass Reactive Sintering 2021 , 728-745		0
14	Additive Manufacturing of Ceramics from Liquid Feedstocks 2022 , 1, 100012		0
13	Hybrid additive manufacturing for the fabrication of freeform transparent silica glass components. <i>Additive Manufacturing</i> , 2022 , 54, 102727	6.1	0
12	Additive manufacturing of inorganic components using a geopolymer and binder jetting. <i>Additive Manufacturing</i> , 2022 , 56, 102909	6.1	0
11	FABRICATION AND MICROSTRUCTURES OF POROUS ALUMINA WITH POROUS-AND-DENSER ZEBRA-PATTERNED SURFACES CREATED BY ONE-POT DIRECT BLOWING METHOD. <i>Ceramic Engineering and Science Proceedings</i> , 2019 , 69-76	0.1	
10	Synthesis of a Porous SiC Material from Polycarbosilane by Direct Foaming and Radiation Curing. <i>Ceramic Transactions</i> , 2014 , 61-69	0.1	
9	Synthesis of Hierarchical Porous SiCO Monoliths from Preceramic Polymer Impregnated with Porous Templates. <i>Ceramic Transactions</i> , 2014 , 85-92	0.1	
8	Processing and Morphology Control of Porous Ceramics 2015 , 276-290		

- 7 Polymer-Derived Ceramics: 40 Years of Research and Innovation in Advanced Ceramics **2014**, 245-320
- 6 Alkaline ion sensitivity of insulator-silicon structures with glass membranes prepared by the sol-gel technique. *Journal of Materials Science Letters*, **1991**, 10, 1129-1131
- 5 Synthesis of Ceramic Nano Fiber from Precursor Polymer by Single Particle Nano-Fabrication Technique. *Ceramic Transactions*, 105-110 O.1
- 4 Facile Ceramic Micro-Structure Generation Using Electrohydrodynamic Processing and Pyrolysis. *Ceramic Transactions*, 81-86 O.1
- 3 Porous SiC Ceramic from Wood Charcoal. *Ceramic Engineering and Science Proceedings*, 163-176 O.1
- 2 Porous Ceramics Processing **2021**, 342-345
- 1 Hierarchical Porosity Ceramic Components from Preceramic Polymers 1-12