

# Young-Wook Kim

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/610188/young-wook-kim-publications-by-citations.pdf>

**Version:** 2024-04-27

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.

292  
papers

6,970  
citations

42  
h-index

61  
g-index

300  
ext. papers

7,827  
ext. citations

3.9  
avg, IF

6.35  
L-index

#	Paper	IF	Citations
292	Processing and properties of macroporous silicon carbide ceramics: A reviewPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , <b>2013</b> , 1, 220-242	2.4	220
291	High-temperature strength of silicon carbide ceramics sintered with rare-earth oxide and aluminum nitride. <i>Acta Materialia</i> , <b>2007</b> , 55, 727-736	8.4	133
290	Fabrication of Dense Nanostructured Silicon Carbide Ceramics through Two-Step Sintering. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 1803-1805	3.8	133
289	Effect of Initial $\beta$ Phase Content on Microstructure and Mechanical Properties of Sintered Silicon Carbide. <i>Journal of the American Ceramic Society</i> , <b>1998</b> , 81, 3136-3140	3.8	131
288	Grain Growth and Fracture Toughness of Fine-Grained Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 3145-3148	3.8	116
287	Processing and properties of polysiloxane-derived porous silicon carbide ceramics using hollow microspheres as templates. <i>Journal of the European Ceramic Society</i> , <b>2008</b> , 28, 1029-1035	6	114
286	Microstructural Development of Silicon Carbide Containing Large Seed Grains. <i>Journal of the American Ceramic Society</i> , <b>1997</b> , 80, 99-105	3.8	111
285	Processing of polysiloxane-derived porous ceramics: a review. <i>Science and Technology of Advanced Materials</i> , <b>2010</b> , 11, 044303	7.1	90
284	Fabrication of silicon carbide nanoceramics. <i>Journal of Materials Research</i> , <b>1996</b> , 11, 1601-1604	2.5	88
283	Fabrication of Open-Cell, Microcellular Silicon Carbide Ceramics by Carbothermal Reduction. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 2949-2951	3.8	83
282	Porosity control of porous silicon carbide ceramics. <i>Journal of the European Ceramic Society</i> , <b>2009</b> , 29, 2867-2872	6	82
281	Relationship between Microstructure and Fracture Toughness of Toughened Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 1347-1353	3.8	77
280	High temperature strength and oxidation behaviour of hot-pressed silicon nitride-disilicate ceramics. <i>Journal of Materials Science</i> , <b>1997</b> , 32, 1937-1942	4.3	75
279	Microstructure and properties of porous silicon carbide ceramics fabricated by carbothermal reduction and subsequent sintering process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 464, 129-134	5.3	72
278	Microstructure and Thermal Conductivity of Silicon Carbide with Yttria and Scandia. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 923-928	3.8	69
277	Processing of closed-cell silicon oxycarbide foams from a preceramic polymer. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 5647-5652	4.3	67
276	Heat-resistant silicon carbide with aluminum nitride and scandium oxide. <i>Acta Materialia</i> , <b>2005</b> , 53, 4701-4708	4.7	65

275	Effects of the initial SiC content on the microstructure, mechanical properties, and permeability of macroporous silicon carbide ceramics. <i>Journal of the European Ceramic Society</i> , <b>2012</b> , 32, 1283-1290	6	62
274	High-Temperature Strength of Liquid-Phase-Sintered SiC with AlN and Re <sub>2</sub> O <sub>3</sub> (RE = Y, Yb). <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 85, 1007-1009	3.8	62
273	Crack-Healing Behavior of Liquid-Phase-Sintered Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 465-470	3.8	62
272	Microstructure and Mechanical Properties of alpha-Silicon Carbide Sintered with Yttrium-Aluminum Garnet and Silica. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 441-444	3.8	61
271	Steam-Chest Molding of Expanded Polypropylene Foams. 2. Mechanism of Interbead Bonding. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 5523-5531	3.9	60
270	Processing of Porous Silicon Carbide Ceramics from Carbon-Filled Polysiloxane by Extrusion and Carbothermal Reduction. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1361-1364	3.8	59
269	Processing of microcellular preceramics using carbon dioxide. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 2371-2377	8.6	59
268	Processing and mechanical properties of porous silica-bonded silicon carbide ceramics. <i>Metals and Materials International</i> , <b>2005</b> , 11, 351-355	2.4	59
267	Fine-Grained Silicon Carbide Ceramics with Oxynitride Glass. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 2731-2736	3.8	57
266	Fabrication of Microcellular Ceramics Using Gaseous Carbon Dioxide. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 2231-2233	3.8	57
265	A simple pressing route to closed-cell microcellular ceramics. <i>Scripta Materialia</i> , <b>2005</b> , 53, 921-925	5.6	56
264	Electrodischarge-Machinable Silicon Carbide Ceramics Sintered with Yttrium Nitrate. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 991-993	3.8	55
263	Heat-Resistant Silicon Carbide with Aluminum Nitride and Erbium Oxide. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 2060-2064	3.8	55
262	Pressureless Sintering of Alumina-Titanium Carbide Composites. <i>Journal of the American Ceramic Society</i> , <b>1989</b> , 72, 1333-1337	3.8	55
261	Effect of template size on microstructure and strength of porous silicon carbide ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2008</b> , 116, 1159-1163	1	52
260	Oxidation Behavior of Liquid-Phase Sintered Silicon Carbide with Aluminum Nitride and Rare-Earth Oxides (Re <sub>2</sub> O <sub>3</sub> , where Re = Y, Er, Yb). <i>Journal of the American Ceramic Society</i> , <b>2002</b> , 85, 2281-2286	3.8	52
259	Influence of small amount of sintering additives on unlubricated sliding wear properties of SiC ceramics. <i>Ceramics International</i> , <b>2011</b> , 37, 3599-3608	5.1	50
258	Mechanism of grain growth in liquid-phase-sintered SiC. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 4291-4293		50

257	Mechanical properties of hot-forged silicon carbide ceramics. <i>Scripta Materialia</i> , <b>2005</b> , 52, 153-156	5.6	49
256	Steam-Chest Molding of Expanded Polypropylene Foams. 1. DSC Simulation of Bead Foam Processing. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 9822-9829	3.9	48
255	Processing of microcellular silicon carbide ceramics with a duplex pore structure. <i>Journal of the European Ceramic Society</i> , <b>2010</b> , 30, 2671-2676	6	48
254	Processing of Microcellular Mullite. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 3311-3315	3.8	48
253	Effect of $\beta$ -Phase Transformation on the Microstructural Development and Mechanical Properties of Fine-Grained Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 945-950	3.8	48
252	Effect of grain growth on the thermal conductivity of liquid-phase sintered silicon carbide ceramics. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 3475-3481	6	45
251	Structural and Optical Characteristics of Crystalline Silicon Carbide Nanoparticles Synthesized by Carbothermal Reduction. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 424-428	3.8	42
250	Temperature Dependence of Electrical Resistivity (400K) in Aluminum- and Boron-Doped SiC Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 2525-2530	3.8	41
249	Microstructural Control for Strengthening of Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 2924-2926	3.8	41
248	Development of Al <sub>2</sub> O <sub>3</sub> /SiC composite tool for machining application. <i>Ceramics International</i> , <b>2004</b> , 30, 2081-2086	5.1	41
247	Thermal, electrical, and mechanical properties of pressureless sintered silicon carbide ceramics with yttria-scandia-aluminum nitride. <i>Journal of the European Ceramic Society</i> , <b>2016</b> , 36, 2659-2665	6	41
246	Electrical and thermal properties of SiC/AlN ceramics without sintering additives. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 2715-2721	6	40
245	Effect of grain growth on electrical properties of silicon carbide ceramics sintered with gadolinia and yttria. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 4137-4142	6	40
244	Effect of initial particle size on microstructure of liquid-phase sintered silicon carbide. <i>Journal of the European Ceramic Society</i> , <b>2000</b> , 20, 945-949	6	40
243	Effect of reactant depletion on the microstructure and preferred orientation of polycrystalline SiC films by chemical vapor deposition. <i>Thin Solid Films</i> , <b>1995</b> , 266, 192-197	2.2	40
242	Electrical conductivity of dense, bulk silicon-oxycarbide ceramics. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 1355-1360	6	39
241	Erosion behavior of SiC/WC composites. <i>Ceramics International</i> , <b>2014</b> , 40, 6829-6839	5.1	38
240	Control of Electrical Resistivity in Silicon Carbide Ceramics Sintered with Aluminum Nitride and Yttria. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 3463-3469	3.8	38

239	Effect of alkaline earth metal oxide addition on flexural strength of porous mullite-bonded silicon carbide ceramics. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 6841-6844	4.3	38
238	Effect of polycarbosilane addition on mechanical properties of hot-pressed silicon carbide. <i>Journal of Materials Science</i> , <b>1992</b> , 27, 4746-4750	4.3	38
237	High thermal conductivity of spark plasma sintered silicon carbide ceramics with yttria and scandia. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 1290-1294	3.8	37
236	Influence of Y <sub>2</sub> O <sub>3</sub> addition on electrical properties of SiC ceramics sintered in nitrogen atmosphere. <i>Journal of the European Ceramic Society</i> , <b>2012</b> , 32, 4401-4406	6	37
235	Effect of sintering-additive composition on fracture toughness of liquid-phase-sintered SiC ceramics. <i>Journal of Materials Science Letters</i> , <b>2001</b> , 20, 143-146		37
234	Electrical and Thermal Properties of SiC Ceramics Sintered with Yttria and Nitrides. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2943-2949	3.8	35
233	Electrical resistivity of silicon carbide ceramics sintered with 1wt% aluminum nitride and rare earth oxide. <i>Journal of the European Ceramic Society</i> , <b>2012</b> , 32, 4427-4434	6	35
232	Oxidation behavior of hot-pressed Si <sub>3</sub> N <sub>4</sub> with Re <sub>2</sub> O <sub>3</sub> (Re=Y, Yb, Er, La). <i>Journal of the European Ceramic Society</i> , <b>1999</b> , 19, 2757-2762	6	35
231	In S/Yu-Toughened Silicon Carbide-Titanium Carbide Composites. <i>Journal of the American Ceramic Society</i> , <b>1996</b> , 79, 1711-1713	3.8	35
230	Mechanical properties of electrically conductive silicon carbide ceramics. <i>Ceramics International</i> , <b>2014</b> , 40, 10577-10582	5.1	34
229	SiC-TiC and SiC-TiB <sub>2</sub> composites densified by liquid-phase sintering. <i>Journal of Materials Science</i> , <b>1996</b> , 31, 6223-6228	4.3	34
228	Highly conductive SiC ceramics containing Ti <sub>2</sub> CN. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 1149-1154	3.3	33
227	Processing and properties of glass-bonded silicon carbide membrane supports. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 1225-1232	6	33
226	Strength and fracture toughness of in situ-toughened silicon carbide. <i>Journal of Materials Science</i> , <b>1997</b> , 32, 4777-4782	4.3	33
225	Grain boundary crystallization during furnace cooling of SiC sintered with Y <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> /CaO. <i>Journal of the European Ceramic Society</i> , <b>2006</b> , 26, 1267-1272	6	33
224	Cross-linking behavior of a polysiloxane in preceramic foam processing. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 4913-4915	4.3	33
223	Influence of Powder Characteristics on Liquid Phase Sintering of Silicon Carbide. <i>Journal of the Ceramic Society of Japan</i> , <b>1995</b> , 103, 257-261		33
222	Tribological characteristics of SiC ceramics sintered with a small amount of yttria. <i>Ceramics International</i> , <b>2015</b> , 41, 14780-14789	5.1	32

221	Porous sodium borate-bonded SiC ceramics. <i>Ceramics International</i> , <b>2013</b> , 39, 6827-6834	5.1	32
220	Formation of ZIF-8 membranes inside porous supports for improving both their H <sub>2</sub> /CO <sub>2</sub> separation performance and thermal/mechanical stability. <i>Journal of Membrane Science</i> , <b>2017</b> , 540, 430-439	9.6	32
219	High interfacial thermal resistance induced low thermal conductivity in porous SiC-SiO <sub>2</sub> composites with hierarchical porosity. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 594-602	6	32
218	Mechanical and Thermal Properties of Pressureless Sintered Silicon Carbide Ceramics with Alumina-Titania-Calcia. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 1735-1741	3.8	31
217	Electrical resistivity of SiC ceramics sintered with Al <sub>2</sub> O <sub>3</sub> or AlN additives. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 1695-1701	6	31
216	Effect of WC addition on sliding wear behavior of SiC ceramics. <i>Ceramics International</i> , <b>2015</b> , 41, 3427-3437	4.7	31
215	Effect of additive composition on microstructure and strength of porous silicon carbide ceramics. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 4482-4486	4.3	31
214	Fabrication of dense bulk nano-Si <sub>3</sub> N <sub>4</sub> ceramics without secondary crystalline phase. <i>Scripta Materialia</i> , <b>2006</b> , 54, 615-619	5.6	31
213	Effects of porosity on electrical and thermal conductivities of porous SiC ceramics. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 996-1004	6	31
212	Processing of Porous Silicon Oxycarbide Ceramics from Extruded Blends of Polysiloxane and Polymer Microbead. <i>Journal of the Ceramic Society of Japan</i> , <b>2007</b> , 115, 419-424		30
211	Intergranular glassy phase free SiC ceramics retains strength at 1500 °C. <i>Scripta Materialia</i> , <b>2004</b> , 50, 1203-1207	5.6	30
210	Effects of carbon addition on the electrical properties of bulk silicon-oxycarbide ceramics. <i>Journal of the European Ceramic Society</i> , <b>2016</b> , 36, 2705-2711	6	29
209	Processing of alumina-coated clay/diatomite composite membranes for oily wastewater treatment. <i>Ceramics International</i> , <b>2016</b> , 42, 5024-5035	5.1	29
208	High temperature strength of silicon carbide sintered with 1wt.% aluminum nitride and lutetium oxide. <i>Journal of the European Ceramic Society</i> , <b>2013</b> , 33, 345-350	6	29
207	Low temperature processing of highly porous silicon carbide ceramics with improved flexural strength. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 282-285	4.3	29
206	Engineering porosity in silicon carbide ceramics. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 2808-2815	4.3	29
205	R-Curve Behavior of Silicon Nitride/Titanium Nitride Composites. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 80, 2681-2684	3.8	29
204	R-curve behaviour and microstructure of sintered silicon nitride. <i>Journal of Materials Science</i> , <b>1995</b> , 30, 5178-5184	4.3	29

203	Low-temperature processing of porous SiC ceramics. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 1973-1979	4.3	28
202	In situ enhancement of toughness of SiC/TiB <sub>2</sub> composites. <i>Journal of Materials Science</i> , <b>1998</b> , 33, 211-214	4.3	28
201	Effects of Y <sub>2</sub> O <sub>3</sub> /RE <sub>2</sub> O <sub>3</sub> (RE = Sm, Gd, Lu) Additives on Electrical and Thermal Properties of Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 265-272	3.8	28
200	High-temperature strength of a thermally conductive silicon carbide ceramic sintered with yttria and scandia. <i>Journal of the European Ceramic Society</i> , <b>2016</b> , 36, 3755-3760	6	28
199	Microstructure and high-temperature strength of silicon carbide with 2000 ppm yttria. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 4449-4455	6	27
198	Effect of Annealing Conditions on Microstructural Development and Phase Transformation in Silicon Carbide. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 1369-1374	3.8	27
197	Refined Continuum Model on the Behavior of Intergranular Films in Silicon Nitride Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 2821-2827	3.8	27
196	Pressureless sintering of SiC-TiC composites with improved fracture toughness. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 5569-5574	4.3	27
195	Nicalon-fibre-reinforced silicon-carbide composites via polymer solution infiltration and chemical vapour infiltration. <i>Journal of Materials Science</i> , <b>1993</b> , 28, 3866-3868	4.3	27
194	Electrical, thermal and mechanical properties of silicon carbide/silicon nitride composites sintered with yttria and scandia. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 77-86	6	26
193	Ceramic Membranes Prepared from a Silicate and Clay-mineral Mixture for Treatment of Oily Wastewater. <i>Clays and Clay Minerals</i> , <b>2015</b> , 63, 222-234	2.1	26
192	Silicon carbide particle formation from carbon black -polymethylsilsesquioxane mixtures with melt pressing. <i>Journal of the Ceramic Society of Japan</i> , <b>2008</b> , 116, 121-125	1	26
191	Effect of inert filler addition on pore size and porosity of closed-cell silicon oxycarbide foams. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 3513-3515	4.3	26
190	Microstructure stability of fine-grained silicon carbide ceramics during annealing. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 3613-3617	4.3	26
189	Fabrication of porous preceramic polymers using carbon dioxide. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 1667-1669		26
188	Tribological Behavior of Silicon Carbide Ceramics - A Review. <i>Journal of the Korean Ceramic Society</i> , <b>2016</b> , 53, 581-596	2.2	26
187	Thermal and Mechanical Properties of SiC/TiC <sub>0.5</sub> N <sub>0.5</sub> Composites. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 616-623	3.8	25
186	Effect of inert filler addition on microstructure and strength of porous SiC ceramics. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 1404-1406	4.3	25

185	Processing and properties of silica-bonded porous nano-SiC ceramics with extremely low thermal conductivity. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 2623-2633	6	24
184	Improved electrical and thermal conductivities of polysiloxane-derived silicon oxycarbide ceramics by barium addition. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 487-493	6	23
183	Effects of polysiloxane on thermal conductivity and compressive strength of porous silica ceramics. <i>Ceramics International</i> , <b>2019</b> , 45, 21270-21277	5.1	23
182	Effective Nitrogen Doping for Fabricating Highly Conductive SiC Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 3216-3219	3.8	23
181	Melt spinning and metal chloride vapor curing process on polymethylsilsesquioxane as Si <sub>2</sub> O <sub>2</sub> C fiber precursor. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 2600-2607	2.9	23
180	Processing of microcellular cordierite ceramics from a preceramic polymer. <i>Scripta Materialia</i> , <b>2006</b> , 54, 1521-1525	5.6	23
179	Effect of processing on densification of nanostructured SiC ceramics fabricated by two-step sintering. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 3801-3803	4.3	23
178	Texture Development in Silicon Nitride/Silicon Oxynitride In Situ Composites via Superplastic Deformation. <i>Journal of the American Ceramic Society</i> , <b>2000</b> , 83, 3147-3152	3.8	23
177	Electrical properties of liquid-phase sintered silicon carbide ceramics: a review. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2020</b> , 45, 66-84	10.1	23
176	Micro-electrical discharge machining characteristics of newly developed conductive SiC ceramic. <i>Ceramics International</i> , <b>2015</b> , 41, 3490-3496	5.1	22
175	Effect of additive composition on mechanical properties of pressureless sintered silicon carbide ceramics sintered with alumina, aluminum nitride and yttria. <i>Metals and Materials International</i> , <b>2015</b> , 21, 525-530	2.4	22
174	Effect of aluminum source on flexural strength of mullite-bonded porous silicon carbide ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2010</b> , 118, 13-18	1	22
173	Processing of Highly Porous, Open-Cell, Microcellular Silicon Carbide Ceramics by Expansion Method Using Expandable Microspheres. <i>Journal of the Ceramic Society of Japan</i> , <b>2006</b> , 114, 549-553		22
172	Processing of alumina-coated glass-bonded silicon carbide membranes for oily wastewater treatment. <i>International Journal of Applied Ceramic Technology</i> , <b>2017</b> , 14, 692-702	2	21
171	Electrical properties of SiC ceramics sintered with 0.5 wt% AlN/RE <sub>2</sub> O <sub>3</sub> (RE=Y, Nd, Lu). <i>Ceramics International</i> , <b>2014</b> , 40, 8885-8890	5.1	21
170	Low-cost clay-based membranes for oily wastewater treatment. <i>Journal of the Ceramic Society of Japan</i> , <b>2014</b> , 122, 788-794	1	21
169	Processing of Open-Cell Silicon Carbide Foams by Steam Chest Molding and Carbothermal Reduction. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 344-347	3.8	21
168	Highly resistive SiC ceramics sintered with Al <sub>2</sub> O <sub>3</sub> -AlN-Y <sub>2</sub> O <sub>3</sub> additions. <i>Ceramics International</i> , <b>2017</b> , 43, 5343-5346	5.1	20



167	Low-Temperature Processing of Silicon Oxycarbide-Bonded Silicon Carbide. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 2463-2466	3.8	20
166	Effect of additives on mechanical properties of macroporous silicon carbide ceramics. <i>Metals and Materials International</i> , <b>2010</b> , 16, 399-405	2.4	20
165	Superplastic behavior of liquid-phase sintered SiC prepared with oxynitride glasses in an N <sub>2</sub> atmosphere. <i>Journal of the European Ceramic Society</i> , <b>2002</b> , 22, 263-270	6	20
164	Texture in Silicon Nitride Seeded with Silicon Nitride Whiskers of Different Sizes. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 1008-1013	3.8	20
163	Effect of initial $\beta$ phase content of SiC on microstructure and mechanical properties of SiC/TiC composites. <i>Journal of the European Ceramic Society</i> , <b>2001</b> , 21, 93-98	6	20
162	Electrically conductive SiC ceramics processed by pressureless sintering. <i>International Journal of Applied Ceramic Technology</i> , <b>2019</b> , 16, 843-849	2	20
161	Mechanical and thermal properties of silicon carbide ceramics with yttria-calcia-magnesia. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 144-149	6	20
160	Fe doping and magnetic properties of zincblende SiC ceramics. <i>Journal of the European Ceramic Society</i> , <b>2012</b> , 32, 1149-1155	6	19
159	Effect of additive composition on microstructure and mechanical properties of SiC ceramics sintered with small amount of RE <sub>2</sub> O <sub>3</sub> (RE: Sc, Lu, Y) and AlN. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 5939-5943	4.3	19
158	Effect of annealing on mechanical properties of self-reinforced alpha-silicon carbide. <i>Journal of Materials Science</i> , <b>1999</b> , 34, 2325-2330	4.3	19
157	Tribology of WC reinforced SiC ceramics: Influence of counterbody. <i>Friction</i> , <b>2019</b> , 7, 129-142	5.6	19
156	Effect of aluminum hydroxide content on porosity and strength of porous mullite-bonded silicon carbide ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2011</b> , 119, 367-370	1	18
155	Processing highly porous SiC ceramics using poly(ether-co-octene) and hollow microsphere templates. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 3664-3667	4.3	18
154	Microstructure and fracture toughness of liquid-phase-sintered SiC containing SiC whiskers as seeds. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 1117-1121	4.3	18
153	R-curve behaviour and microstructure of liquid-phase sintered SiC. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 3693-3697	4.3	18
152	Electrically conductive SiC-BN composites. <i>Journal of the European Ceramic Society</i> , <b>2016</b> , 36, 3879-3887	6	18
151	Electrical and thermal properties of silicon carbide-Boron nitride composites prepared without sintering additives. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 4423-4429	6	17
150	Process-tolerant pressureless-sintered silicon carbide ceramics with alumina-yttria-calcia-strontia. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 445-452	6	17

149	Grain-growth-induced high electrical conductivity in SiC <sub>B</sub> N composites. <i>Ceramics International</i> , <b>2018</b> , 44, 16394-16399	5.1	17
148	Effect of in situ-synthesized nano-size SiC addition on density and electrical resistivity of liquid-phase sintered silicon carbide ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2011</b> , 119, 965-967		17
147	Effect of submicron silicon carbide powder addition on the processing and strength of reaction-sintered mullite-silicon carbide composites. <i>Journal of the Ceramic Society of Japan</i> , <b>2009</b> , 117, 421-425	1	17
146	Microstructure and mechanical properties of self-Reinforced alphaSilicon carbide. <i>Ceramics International</i> , <b>1998</b> , 24, 489-495	5.1	17
145	Processing of silicon-derived silica-bonded silicon carbide membrane supports. <i>Ceramics International</i> , <b>2019</b> , 45, 2161-2169	5.1	17
144	Low temperature pressureless sintering of silicon carbide ceramics with alumina-magnesia-calcia. <i>Journal of the Ceramic Society of Japan</i> , <b>2019</b> , 127, 207-214	1	16
143	R-curve behaviour of sintered silicon nitride. <i>Journal of Materials Science</i> , <b>1995</b> , 30, 4043-4048	4.3	16
142	Low Temperature Processing and Properties of Porous Frit-Bonded SiC Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2009</b> , 46, 488-492	2.2	16
141	Pressureless sintered silicon carbide matrix with a new quaternary additive for fully ceramic microencapsulated fuels. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 3971-3980	6	15
140	Electrical and mechanical properties of pressureless sintered SiC-Ti <sub>2</sub> CN composites. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 3064-3072	6	15
139	Fabrication of silicon oxycarbide foams from extruded blends of polysiloxane, low-density polyethylene (LDPE), and polymer microbead. <i>Metals and Materials International</i> , <b>2007</b> , 13, 521-525	2.4	15
138	Fabrication of cellular and microcellular ceramics with controllable open-cell content from polysiloxane-LDPE blends: I. Compounding and Foaming. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 2854-2861	4.3	15
137	Fabrication of Porous Silicon Oxycarbide Ceramics by Foaming Polymer Liquid and Compression Molding. <i>Journal of the Ceramic Society of Japan</i> , <b>2003</b> , 111, 863-864		15
136	Effect of Heat Treatments on the Crack-Healing and Static Fatigue Behavior of Silicon Carbide Sintered with Sc <sub>2</sub> O <sub>3</sub> and AlN. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 3478-3482	3.8	15
135	Mechanical Properties and Contact Damages of Nanostructured Silicon Carbide Ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2007</b> , 115, 304-309		14
134	Open-celled silicon carbide foams with high porosity from boron-modified polycarbosilanes. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 5114-5122	6	13
133	Electrical and thermal properties of SiC-Zr <sub>2</sub> CN composites sintered with Y <sub>2</sub> O <sub>3</sub> -Sc <sub>2</sub> O <sub>3</sub> additives. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 477-484	6	13
132	Effect of forming methods on porosity and compressive strength of polysiloxane-derived porous silicon carbide ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2012</b> , 120, 199-203	1	13

131	Effect of SiC particle size on flexural strength of porous self-bonded SiC ceramics. <i>Metals and Materials International</i> , <b>2011</b> , 17, 599-605	2.4	13
130	Effects of silicon particle size on microstructure and permeability of silicon-bonded SiC ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2012</b> , 120, 370-374	1	13
129	Process for dense 2D SiC fiber-SiC matrix composites. <i>Metals and Materials International</i> , <b>2007</b> , 13, 197-200		13
128	Microstructural development of liquid-phase-sintered silicon carbide during annealing with uniaxial pressure. <i>Journal of the European Ceramic Society</i> , <b>2002</b> , 22, 1031-1037	6	13
127	Influence of Silica Content on Liquid Phase Sintering of Silicon Carbide with Yttrium-Aluminum Garnet. <i>Journal of the Ceramic Society of Japan</i> , <b>1996</b> , 104, 816-818		13
126	Pressureless sintering of Al <sub>2</sub> O <sub>3</sub> -SiC whisker composites. <i>Journal of Materials Science</i> , <b>1991</b> , 26, 1316-1320	4.3	13
125	Effects of Template Size and Content on Porosity and Strength of Macroporous Zirconia Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2009</b> , 46, 35-40	2.2	13
124	Effects of carbon and silicon on electrical, thermal, and mechanical properties of porous silicon carbide ceramics. <i>Ceramics International</i> , <b>2020</b> , 46, 15594-15603	5.1	12
123	Effects of Y <sub>2</sub> O <sub>3</sub> RE <sub>2</sub> O <sub>3</sub> (RE = Sm, Gd, Lu) additives on electrical and mechanical properties of SiC ceramics containing Ti <sub>2</sub> CN. <i>Journal of the European Ceramic Society</i> , <b>2016</b> , 36, 2997-3003	6	12
122	Room and high temperature reciprocated sliding wear behavior of SiC-WC composites. <i>Ceramics International</i> , <b>2017</b> , 43, 16827-16834	5.1	12
121	Effect of impingement angle and WC content on high temperature erosion behavior of SiC-WC composites. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2017</b> , 68, 166-171	4.1	12
120	Fabrication of lightweight, flexible polyetherimide/nickel composite foam with electromagnetic interference shielding effectiveness reaching 103 dB. <i>Journal of Cellular Plastics</i> , <b>2014</b> , 50, 537-550	1.5	12
119	Processing of Silicon Oxycarbide Foams by Steam Chest Molding and Pyrolysis. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 3099-3101	3.8	12
118	Processing of Kaolin-Based Microfiltration Membranes. <i>Journal of the Korean Ceramic Society</i> , <b>2013</b> , 50, 341-347	2.2	12
117	Effect of alkaline earth additives on the flexural strength of silicon oxycarbide-bonded silicon carbide ceramics. <i>Ceramics International</i> , <b>2013</b> , 39, 2083-2091	5.1	11
116	Microstructure and Fracture Toughness of In-situ Toughened SiC- TiC Composites. <i>Journal of Materials Science Letters</i> , <b>1998</b> , 17, 1081-1084		11
115	Effects of additive amount on microstructure and fracture toughness of SiC/TiB <sub>2</sub> composites. <i>Ceramics International</i> , <b>1998</b> , 24, 299-305	5.1	11
114	Sinterability of Nano-Sized Silicon Carbide Powders. <i>Journal of the Ceramic Society of Japan</i> , <b>2006</b> , 114, 681-685		11

113	Effects of additive amount on microstructure and mechanical properties of silicon carbide-silicon nitride composites. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 699-702	4.3	11
112	Direct bonding of silicon carbide ceramics sintered with yttria. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 4487-4494	6	10
111	Effect of aluminum nitride-scandia content on the microstructural and mechanical properties of sintered silicon carbide ceramics. <i>Metals and Materials International</i> , <b>2009</b> , 15, 937-941	2.4	10
110	Effect of additive amount on microstructure and mechanical properties of self-reinforced silicon carbide. <i>Journal of Materials Science Letters</i> , <b>1997</b> , 16, 1384-1386		10
109	Phase Transformation and Texture in Hot-Forged or Annealed Liquid-Phase-Sintered Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 85, 459-465	3.8	10
108	Intergranular film thickness of self-reinforced silicon carbide ceramics. <i>Journal of the European Ceramic Society</i> , <b>2004</b> , 24, 3795-3800	6	10
107	Fabrication and Mechanical Properties of Silicon Carbide-Silicon Nitride Composites with Oxynitride Glass. <i>Journal of the American Ceramic Society</i> , <b>1999</b> , 82, 1058-1060	3.8	10
106	Highly electrically and thermally conductive silicon carbide-graphene composites with yttria and scandia additives. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 241-250	6	10
105	Thermal and electrical properties of additive-free rapidly hot-pressed SiC ceramics. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 234-240	6	10
104	Effect of additive content on the mechanical and thermal properties of pressureless liquid-phase sintered SiC. <i>Journal of Asian Ceramic Societies</i> , <b>2020</b> , 8, 448-459	2.4	9
103	Low-temperature spark plasma sintering of alumina by using SiC molding set. <i>Journal of the Ceramic Society of Japan</i> , <b>2016</b> , 124, 1141-1145	1	9
102	Conductive SiC ceramics fabricated by spark plasma sintering. <i>Ceramics International</i> , <b>2016</b> , 42, 17892-17896	3.6	9
101	Thermal conductivity and compressive strength anisotropy in vermiculite-ceramic composites with layered structure. <i>Journal of the Ceramic Society of Japan</i> , <b>2011</b> , 119, 319-321	1	9
100	Mechanical properties of SiC ceramics sintered with RE <sub>2</sub> O <sub>3</sub> (RE: Sc, Lu, Y) and AlN additives. <i>Metals and Materials International</i> , <b>2010</b> , 16, 229-233	2.4	9
99	Fabrication of dense 2D SiC fiber-SiC matrix composites by slurry infiltration and a stacking process. <i>Metals and Materials International</i> , <b>2008</b> , 14, 589-591	2.4	9
98	Processing of Cellular Glasses Using Glass Microspheres. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 3262-3265	3.8	9
97	Texture and Fracture Toughness Anisotropy in Silicon Carbide. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 1669-1672	3.8	9
96	Fabrication and mechanical properties of silicon carbide-silicon nitride nanocomposites. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 5885-5890	4.3	9

95	Microstructure and Permeability Property of Si Bonded Porous SiC with Variations in the Carbon Content. <i>Journal of the Korean Ceramic Society</i> , <b>2010</b> , 47, 546-552	2.2	9
94	Porosity Control of Porous Zirconia Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2008</b> , 45, 65-68	2.2	9
93	Mechanical properties of silicon carbide $\text{\AA}$ situ zirconium carbonitride composites. <i>International Journal of Applied Ceramic Technology</i> , <b>2019</b> , 16, 1304-1313	2	8
92	Spark Plasma Sintering of Highly Transparent Hydroxyapatite Ceramics. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , <b>2017</b> , 64, 547-551	0.2	8
91	Accelerated ceramization of polymethylsilsesquioxane by aluminum- based filler reductant. <i>Applied Organometallic Chemistry</i> , <b>2009</b> , 24, 612-617	3.1	8
90	Processing of porous silicon carbide with toughened strut microstructure. <i>Journal of the Ceramic Society of Japan</i> , <b>2010</b> , 118, 380-383	1	8
89	Effect of additive composition on porosity and flexural strength of porous self-bonded SiC ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2010</b> , 118, 810-813	1	8
88	Effect of SiC Filler Content on Microstructure and Flexural Strength of Highly Porous SiC Ceramics Fabricated from Carbon-Filled Polysiloxane. <i>Journal of the Korean Ceramic Society</i> , <b>2012</b> , 49, 625-630	2.2	8
87	Carrier Depletion near the Grain Boundary of a SiC Bicrystal. <i>Scientific Reports</i> , <b>2019</b> , 9, 18014	4.9	8
86	Electrical, thermal, and mechanical properties of porous SiC-nitride composites. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 3851-3862	6	7
85	Mechanical, thermal, and electrical properties of pressureless sintered SiC $\text{\AA}$ AlN ceramics. <i>Ceramics International</i> , <b>2020</b> , 46, 19264-19273	5.1	7
84	Electrically and thermally conductive SiC ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2014</b> , 122, 963-966	1	7
83	Effect of filler addition on porosity and strength of polysiloxane-derived porous silicon carbide ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2011</b> , 119, 48-54	1	7
82	Effect of annealing on mechanical properties of silicon carbide sintered with aluminum nitride and scandium oxide. <i>Metals and Materials International</i> , <b>2009</b> , 15, 149-153	2.4	7
81	Influence of powder characteristics on the electrical resistivity of SiC ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2012</b> , 120, 251-255	1	7
80	Investigation of Curing Process on Melt Spun Polymethylsilsesquioxane Fiber as Precursor for Silicon Oxycarbide Fibers. <i>Advanced Materials Research</i> , <b>2009</b> , 66, 1-4	0.5	7
79	Effect of hot-forging on mechanical properties of silicon carbide sintered with Al <sub>2</sub> O <sub>3</sub> -Y <sub>2</sub> O <sub>3</sub> -MgO. <i>Metals and Materials International</i> , <b>2010</b> , 16, 891-894	2.4	7
78	Processing of Porous Cordierite Ceramics with Controlled Porosity. <i>Journal of the Ceramic Society of Japan</i> , <b>2007</b> , 115, 52-58		7

77	Microstructure and fracture toughness of liquid-phase-sintered SiC-Ti(CN) composites. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 883-886		7
76	Microstructure control of liquid-phase sintered SiC by seeding. <i>Journal of Materials Science Letters</i> , <b>2001</b> , 20, 2217-2220		7
75	Preferred orientation of beta-phase and its mechanisms in a fine-grained silicon-nitride-based ceramic. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 590-596	2.5	7
74	Effects of Additive Composition and Content on Sintered Density and Compressive Strength of Cordierite Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2007</b> , 44, 230-234	2.2	7
73	Investigation on the Pore Properties of the Microcellular ZrO <sub>2</sub> Ceramics Using Hollow Microsphere. <i>Journal of the Korean Ceramic Society</i> , <b>2009</b> , 46, 108-115	2.2	7
72	Effect of Carbon Source on Porosity and Flexural Strength of Porous Self-Bonded Silicon Carbide Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2008</b> , 45, 430-437	2.2	7
71	Effects of dopants on electrical, thermal, and mechanical properties of porous SiC ceramics. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 4006-4015	6	7
70	Joining of silicon carbide ceramics using a silicon carbide tape. <i>International Journal of Applied Ceramic Technology</i> , <b>2019</b> , 16, 1295-1303	2	7
69	Multiple thermal resistance induced extremely low thermal conductivity in porous SiC-SiO <sub>2</sub> ceramics with hierarchical porosity. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 1171-1180	6	7
68	R-curve behavior of layered silicon carbide ceramics with surface fine microstructure. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 2189-2193	4.3	6
67	Effect of multilayer coating on mechanical properties of Nicalon-fibre-reinforced silicon carbide composites. <i>Journal of Materials Science</i> , <b>1996</b> , 31, 335-338	4.3	6
66	Effect of Aluminum Addition on Porosity and Flexural Strength of Porous Self-Bonded Silicon Carbide Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2009</b> , 46, 520-524	2.2	6
65	Effect of Starting SiC Particle Size on Nitridation and Strength of Silicon Nitride-Bonded Silicon Carbide Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2010</b> , 47, 157-162	2.2	6
64	Effect of Template Content on Microstructure and Flexural Strength of Porous Mullite-Bonded Silicon Carbide Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2010</b> , 47, 509-514	2.2	6
63	Fabrication and Properties of SiC Candle Filter by Vacuum Extrusion and Ramming Process (II). <i>Journal of the Korean Ceramic Society</i> , <b>2010</b> , 47, 515-523	2.2	6
62	Flexural Strength of Macroporous Silicon Carbide Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2011</b> , 48, 360-367	2.2	6
61	Effects of M <sub>2</sub> O <sub>3</sub> ·2O <sub>3</sub> (M = Sc and Al) additives on electrical conductivity of hot-pressed SiC ceramics. <i>Ceramics International</i> , <b>2020</b> , 46, 5454-5458	5.1	6
60	Effect of initial $\beta$ phase content on microstructure and flexural strength of macroporous silicon carbide ceramics. <i>Metals and Materials International</i> , <b>2012</b> , 18, 379-383	2.4	5

59	Influence of submicron SiC particle addition on porosity and flexural strength of porous self-bonded silicon carbide. <i>Metals and Materials International</i> , <b>2011</b> , 17, 435-440	2.4	5
58	Suppression of free Si formation during liquid phase sintering of polysiloxane-derived, porous silicon carbide ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2010</b> , 118, 102-106	1	5
57	Toughening Mechanisms in SiC-TiC Composites. <i>Journal of the Ceramic Society of Japan</i> , <b>2004</b> , 112, 18-21		5
56	High temperature strength and oxidation behaviour of Er <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> -Si <sub>3</sub> N <sub>4</sub> ceramics. <i>Journal of Materials Science Letters</i> , <b>1996</b> , 15, 282-284		5
55	Effect of Si:C Ratio on Porosity and Flexural Strength of Porous Self-Bonded Silicon Carbide Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2008</b> , 45, 285-289	2.2	5
54	Fabrication and Properties of the SiC Candle Filter by Vacuum Extrusion and Ramming Process. <i>Journal of the Korean Ceramic Society</i> , <b>2009</b> , 46, 662-667	2.2	5
53	Effect of Clay-Mineral Composition on Flexural Strength of Clay-based Membranes. <i>Journal of the Korean Ceramic Society</i> , <b>2014</b> , 51, 380-385	2.2	5
52	Pressureless sintering of fully ceramic microencapsulated fuels. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 5180-5185	6	5
51	Effects of initial particle size on mechanical, thermal, and electrical properties of porous SiC ceramics. <i>Ceramics International</i> , <b>2021</b> , 47, 8668-8676	5.1	5
50	Indentation and contact damages on grain boundary controlled silicon carbide ceramics. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 1416-1420	4.3	4
49	Cutting performance of Si <sub>3</sub> N <sub>4</sub> based SiC ceramic cutting tools. <i>Journal of Mechanical Science and Technology</i> , <b>2004</b> , 18, 388-394		4
48	Epitaxial growth of cubic SiC thin films on silicon using single molecular precursors by metalorganic chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2001</b> , 19, 1887-1893	2.9	4
47	Strengthening of silicon carbide by surface compressive layer. <i>Journal of Materials Science</i> , <b>1995</b> , 30, 1005-1008	4.3	4
46	Fabrication of SiC Fiber-SiC Matrix Composites by Reaction Sintering. <i>Journal of the Korean Ceramic Society</i> , <b>2008</b> , 45, 204-207	2.2	4
45	Processing of Vermiculite-Silica Composites with Prefer-Oriented Rod-Like Pores. <i>Journal of the Korean Ceramic Society</i> , <b>2012</b> , 49, 347-351	2.2	4
44	Synthesis of Microcellular Cordierite Ceramics Derived from a Preceramic Polymer. <i>Journal of the Korean Ceramic Society</i> , <b>2007</b> , 44, 184-189	2.2	4
43	Effect of Template Size Ratio on Porosity and Strength of Porous Zirconia Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2008</b> , 45, 537-543	2.2	4
42	Intrinsic microstructures of silica-bonded porous nano-SiC ceramics. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 706-710	3.8	4

41	Tuning the electrical, thermal, and mechanical properties of SiC-BN composites using sintering additives. <i>Journal of Asian Ceramic Societies</i> , <b>2020</b> , 8, 353-364	2.4	3
40	Effect of starting particle size and barium addition on flexural strength of polysiloxane-derived SiOC ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2015</b> , 123, 142-146	1	3
39	Effect of large seeds addition on microstructural development of SiC sintered with oxynitride glass. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 1015-1017		3
38	Cutting performance of Al <sub>2</sub> O <sub>3</sub> -SiC nanocomposite tools. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 785-787	4.3	3
37	Effect of sintering-additive composition on fracture toughness of in situ-toughened SiC-30 wt% TiC composites. <i>Journal of Materials Science Letters</i> , <b>2000</b> , 19, 2131-2133		3
36	Effect of the C/Si Molar Ratio on the Characteristics of SiC Powders Synthesized from TEOS and Phenol Resin. <i>Journal of the Korean Ceramic Society</i> , <b>2013</b> , 50, 31-36	2.2	3
35	Flexural Strength of Polysiloxane-Derived Strontium-Doped SiOC Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2015</b> , 52, 61-65	2.2	3
34	Effect of Frit Content on Microstructure and Flexural Strength of Porous Frit-Bonded Al <sub>2</sub> O <sub>3</sub> Ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2010</b> , 47, 529-533	2.2	3
33	Processing of fully ceramic microencapsulated fuels with a small amount of additives by hot-pressing. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 3980-3990	6	3
32	Pressureless solid-state sintering of SiC ceramics with BN and C additives. <i>Journal of Asian Ceramic Societies</i> , 1-8	2.4	3
31	Plastic deformation-induced improved mechanical and thermal properties in hot-forged SiC-TiC composite. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 213-224	6	3
30	Micro electrical discharge drilling characteristics of conductive SiC/Ti <sub>2</sub> CN composite. <i>Journal of Mechanical Science and Technology</i> , <b>2018</b> , 32, 3351-3358	1.6	2
29	Highly Conductive p-Type Zinc blende SiC Thin Films Fabricated on Silicon Substrates by Magnetron Sputtering. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 3663-3665	3.8	2
28	Effect of additives on compressive strength and thermal conductivity of vermiculite-silica composites with layered structure. <i>Journal of the Ceramic Society of Japan</i> , <b>2012</b> , 120, 150-154	1	2
27	Processing and structural characteristics of encapsulated ZnO in porous polysiloxane-derived ceramics. <i>Journal of the Ceramic Society of Japan</i> , <b>2011</b> , 119, 136-139	1	2
26	Transmission electron microscopy observation in a liquid-phase-sintered SiC with oxynitride glass. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 2189-2191	2.5	2
25	Investigation on the Properties of a Microcellular Light-Weighted Humidity Controlling Tile. <i>Journal of the Korean Ceramic Society</i> , <b>2011</b> , 48, 404-411	2.2	2
24	Effect of Additive Composition on Flexural Strength of Cullet-Loess Tile Bodies. <i>Journal of the Korean Ceramic Society</i> , <b>2013</b> , 50, 416-422	2.2	2



23	High-temperature strength of liquid-phase-sintered silicon carbide ceramics: A review. <i>International Journal of Applied Ceramic Technology</i> ,	2	2
22	Effects of initial phase content on properties of pressureless solid-state sintered SiC ceramics. <i>International Journal of Applied Ceramic Technology</i> ,	2	2
21	Evaluation of Heat Stability of Si-O-C Fibers Derived from Polymethylsilsesquioxane. <i>Ceramic Transactions</i> ,39-44	0.1	2
20	Process-tolerant SiC-TiC composites. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 863-866		1
19	Slow crack growth behavior in Si <sub>3</sub> N <sub>4</sub> sintered with Yb <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> tie-line composition additives. <i>Journal of the European Ceramic Society</i> , <b>2001</b> , 21, 471-475	6	1
18	Effects of SiC whisker addition on mechanical, thermal, and permeability properties of porous silica-bonded SiC ceramics. <i>International Journal of Applied Ceramic Technology</i> ,	2	1
17	Processing and properties of water-absorbing zeolite-based porous ceramics. <i>Journal of the Korean Ceramic Society</i> , <b>2022</b> , 59, 94	2.2	1
16	Effect of amount and composition of additives on the fracture toughness of silicon nitride. <i>Journal of Materials Science Letters</i> , <b>1996</b> , 15, 375-377		1
15	Effect of Additive Composition on Fracture Toughness of In Situ-Toughened SiC/Bi <sub>3</sub> N <sub>4</sub> Composites. <i>Journal of the Korean Ceramic Society</i> , <b>2007</b> , 44, 189-193	2.2	1
14	Effect of the Processing Parameters on the Densification and Strength of 2D SiC Fiber-SiC Matrix Composites Fabricated by Slurry Infiltration and Stacking Process. <i>Journal of the Korean Ceramic Society</i> , <b>2007</b> , 44, 349-353	2.2	1
13	Effect of Alkaline-Earth Oxide Additives on Flexural Strength of Clay-Based Membrane Supports. <i>Journal of the Korean Ceramic Society</i> , <b>2015</b> , 52, 180-185	2.2	1
12	Effect of Strontium Carbonate Content on Flexural Strength of Clay-Based Membrane Supports. <i>Journal of the Korean Ceramic Society</i> , <b>2015</b> , 52, 467-472	2.2	1
11	Influence of temperature, impact angle and h-BN content on the erosive wear behavior of hot-pressed SiC-BN composites. <i>Wear</i> , <b>2020</b> , 458-459, 203447	3.5	1
10	Effect of AlN addition on the electrical resistivity of pressureless sintered SiC ceramics with B <sub>4</sub> C and C. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 6086	3.8	1
9	New quaternary additive for processing fully ceramic microencapsulated fuels without applied pressure. <i>Journal of the European Ceramic Society</i> , <b>2022</b> , 42, 1238-1248	6	0
8	Low thermal conductivity in porous SiC/Bi <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> ceramics induced by multiphase thermal resistance. <i>Ceramics International</i> , <b>2021</b> , 47, 20161-20168	5.1	0
7	Electrical resistivity at the micron scale in a polycrystalline SiC ceramic. <i>Ceramics International</i> , <b>2021</b> , 47, 27100-27106	5.1	0
6	Influence of sintering atmosphere and BN additives on microstructure and properties of porous SiC ceramics. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 6925-6933	6	0

- 5 SiC Ceramics, Structure, Processing and Properties **2021**, 150-164 ○
- 4 Effect of nitride addition on the electrical and thermal properties of pressureless solid-state sintered SiC ceramics. *Journal of the Korean Ceramic Society*, **2021**, 42, 1-10 ○
- 3 MicroStructural Hierarchy Descriptor (MSHD) Property correlations of silicon carbide ceramics. *Journal of the European Ceramic Society*, **2022**, 42, 801-819 6
- 2 Sub-surface microstructural investigation for establishing micro-mechanisms of wear in sliding of SiC and SiC-WC ceramics. *Wear*, **2022**, 492-493, 204236 3-5
- 1 Low Temperature Processing of Nano-Sized Magnesia Ceramics Using Ultra High Pressure. *Journal of the Korean Ceramic Society*, **2013**, 50, 226-230 2.2