Pavol Sajgalik

List of Publications by Year
in descending order

189	3,295	136740	214527
papers	citations	32 h-index	47 g-index

214	214	214	2554
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wear behavior of (Moâ€“Nbâ€“Taâ€“Vâ€“W)C highâ€entropy carbide. International Journal of Applied Ceramic Technology, 2023, 20, 224-235.	1.1	11
2	Ultra-high creep resistant SiC ceramics prepared by rapid hot pressing. Journal of the European Ceramic Society, 2022, 42, 820-829.	2.8	4
3	Microstructure, hardness, and fracture toughness evolution of hot-pressed SiC/Si₃N₄ nano/micro composite after high-temperature treatment. International Journal of Materials Research, 2022, 97, 772-777.	0.1	0
4	Design of Lu2O3-reinforced Cf/SiC-ZrB2-ZrC ultra-high temperature ceramic matrix composites: Wetting and interfacial reactivity by ZrSi2 based alloys. Journal of the European Ceramic Society, 2021, 41, 3051-3060.	2.8	10
5	Si3N4 Ceramics, Structure and Properties. , 2021, , 109-118.		4
6	Preparation and Properties of Layered SiC-Graphene Composites for EDM. Materials, 2021, 14, 2916.	1.3	3
7	Influence of hexagonal boron nitride nanosheets on phase transformation, microstructure evolution and mechanical properties of Si3N4 ceramics. Journal of the European Ceramic Society, 2021, 41, 5115-5126.	2.8	14
8	Nanoindentation and tribology of a (Hf-Ta-Zr-Nb-Ti)C high-entropy carbide. Journal of the European Ceramic Society, 2021, 41, 5417-5426.	2.8	60
9	Thermal and electrical properties of additive-free rapidly hot-pressed SiC ceramics. Journal of the European Ceramic Society, 2020, 40, 234-240.	2.8	22
10	Highly electrically and thermally conductive silicon carbide-graphene composites with yttria and scandia additives. Journal of the European Ceramic Society, 2020, 40, 241-250.	2.8	17
11	Bioactive silicon nitride by surface thermal treatment. Journal of the European Ceramic Society, 2020, 40, 1848-1858.	2.8	14
12	Additive-free low temperature sintering of amorphous Si B C powders derived from boron-modified polycarbosilanes: Toward the design of SiC with tunable mechanical, electrical and thermal properties. Journal of the European Ceramic Society, 2020, 40, 2604-2612.	2.8	16
13	Micro scale fracture strength of grains and grain boundaries in polycrystalline La-doped Î²-Si3N4 ceramics. Journal of the European Ceramic Society, 2020, 40, 4783-4791.	2.8	9
14	Identification of wire electrical discharge machinability of SiC sintered using rapid hot pressing technique. Ceramics International, 2020, 46, 17261-17271.	2.3	11
15	Laser Surface Modification of Wire-Electric Discharge Machined Graphene Nanoparticle Reinforced SiC Composites. Journal of Micro and Nano-Manufacturing, 2020, 8, .	0.8	2
16	Investigation of Machining Capabilities of 2.5 vol. % MWCNT Al2O3 Composites in Âµ-EDM. Lecture Notes in Mechanical Engineering, 2020, , 459-465.	0.3	0
17	Influence of open voltage and servo voltage during Wire-EDM of silicon carbides. Procedia CIRP, 2020, 95, 285-289.	1.0	4
18	Bioceramic microspheres based on Si₃N₄â€“Ca₃(PO₄)₂. Resolution and Discovery, 2019, 4, 16-20.	0.9	0

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19	High thermal conductivity silicon nitride ceramics prepared by pressureless sintering with ternary sintering additives. International Journal of Applied Ceramic Technology, 2019, 16, 1399-1406.	1.1	22
20	Wire electrical discharge machinable SiC with GNPs and GO as the electrically conducting filler. Journal of the European Ceramic Society, 2019, 39, 2626-2633.	2.8	23
21	Surface and porous recast layer analysis in Âµ-EDM of MWCNT-Al₂O₃ composites. Materials and Manufacturing Processes, 2019, 34, 567-579.	2.7	17
22	Wire electrical discharge machining of MWCNT filled alumina composites. Materials Today: Proceedings, 2018, 5, 5722-5726.	0.9	2
23	Surface characteristics enhancement of MWCNT alumina composites using multi-pass WEDM process. Journal of the European Ceramic Society, 2018, 38, 4035-4042.	2.8	10
24	Surface characteristics and erosion phenomena in WEDM of alumina composites. Materials and Manufacturing Processes, 2018, 33, 1815-1821.	2.7	9
25	HYDROTHERMAL CORROSION RESISTANCE OF SILICON NITRIDE WITH O'-Si Al ON GRAIN BOUNDARY PHASE. Ceramics - Silikaty, 2018, , 382-388.	0.2	0
26	Mechanical and tribological properties of alumina-MWCNTs composites sintered by rapid hot-pressing. Journal of the European Ceramic Society, 2017, 37, 4821-4831.	2.8	18
27	Machinability analysis of multi walled carbon nanotubes filled alumina composites in wire electrical discharge machining process. Journal of the European Ceramic Society, 2017, 37, 3107-3114.	2.8	26
28	Anisotropy of functional properties of SiC composites with GNPs, GO and in-situ formed graphene. Journal of the European Ceramic Society, 2017, 37, 3731-3739.	2.8	33
29	Nanoindentation induced deformation anisotropy in Î²-Si 3 N 4 ceramic crystals. Journal of the European Ceramic Society, 2016, 36, 3059-3066.	2.8	23
30	Oxidation resistance of SiC ceramics prepared by different proceessing routes. Journal of the European Ceramic Society, 2016, 36, 3783-3793.	2.8	44
31	Separation of CNF agglomerates from a ceramic suspension by spray drying technique. Ceramics International, 2016, 42, 15787-15792.	2.3	2
32	Corrosion of engineering ceramic materials by molten iron Part II: Alumina. Corrosion Science, 2016, 109, 230-237.	3.0	5
33	Lanthanide-doped LaSi 3 N 5 based phosphors: Ab initio study of electronic structures, band gaps, and energy level locations. Journal of Luminescence, 2016, 172, 83-91.	1.5	11
34	Additive-free hot-pressed silicon carbide ceramicsâ€"A material with exceptional mechanical properties. Journal of the European Ceramic Society, 2016, 36, 1333-1341.	2.8	43
35	Corrosion of engineering ceramic materials by molten iron part I: Silicon nitride and SiAlON. Corrosion Science, 2016, 107, 76-84.	3.0	4
36	Nontronites as catalyst for synthesis of carbon nanotubes by catalytic chemical vapor deposition.. Applied Clay Science, 2015, 114, 170-178.	2.6	9

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37	Ab initio study of the electronic structure and band gaps of Eu-doped LaSi3N5 phosphors: A role of oxygen atom. Journal of the European Ceramic Society, 2015, 35, 3249-3253.	2.8	2
38	Electronic structure and energy level schemes of RE3+:LaSi3N5 and RE2+:LaSi3N5â^'xOx phosphors (RE=Ce, Pr, ND, Pm, Sm, Eu) from first principles. Journal of Luminescence, 2015, 164, 131-137.	1.5	21
39	In vitro bioactivity of silicon nitrideâ€“hydroxyapatite composites. Ceramics International, 2015, 41, 8100-8108.	2.3	24
40	Scratch Resistance of the Si₃N₄-Graphene Nanoplatelets Composites. Key Engineering Materials, 2015, 662, 165-168.	0.4	0
41	Nanopowder processing of ultrafine Si₃N₄ with improved wear resistance. Journal of Asian Ceramic Societies, 2015, 3, 6-12.	1.0	4
42	Thermal properties of aluminaâ€“MWCNTs composites. Journal of the European Ceramic Society, 2015, 35, 1559-1567.	2.8	17
43	Deformation and Fracture of Î²â€Silicon Nitride Micropillars. Journal of the American Ceramic Society, 2015, 98, 374-377.	1.9	12
44	Magnetic properties of Co 1â^'x Zn x Fe 2 O 4 spinel ferrite nanoparticles synthesized by starch-assisted solâ€“gel autocombustion method and its ball milling. Journal of Magnetism and Magnetic Materials, 2015, 378, 190-199.	1.0	113
45	Influence of the Microstructure on Macro/Micro versus Nanohardness of SiC Ceramics. Key Engineering Materials, 2014, 606, 197-200.	0.4	1
46	Hydrothermal corrosion and flexural strength of Si3N4-based ceramics. Corrosion Science, 2014, 85, 94-100.	3.0	9
47	New approach for distribution of carbon nanotubes in alumina matrix. Journal of the European Ceramic Society, 2014, 34, 1845-1851.	2.8	58
48	Preceramic Polymerâ€Derived SiAlON as Sintering Aid for Silicon Nitride. Journal of the American Ceramic Society, 2014, 97, 3407-3412.	1.9	5
49	Thermal behavior, electrical conductivity and microstructure of hot pressed Al2O3/SiC nanocomposites. Ceramics International, 2014, 40, 14421-14429.	2.3	44
50	Effect of the counterpart material on wear characteristics of silicon carbide ceramics. International Journal of Refractory Metals and Hard Materials, 2014, 44, 12-18.	1.7	40
51	Smâ€Doped LaSi₃N₅: Synthesis, Computed Electronic Structure, and Band Gaps. Journal of the American Ceramic Society, 2014, 97, 2546-2551.	1.9	10
52	Cerium-doped LaSi3N5: Computed electronic structure and band gaps. Journal of the European Ceramic Society, 2014, 34, 2705-2712.	2.8	11
53	Effect of homogenization treatment on the fracture behaviour of silicon nitride/graphene nanoplatelets composites. Journal of the European Ceramic Society, 2014, 34, 3291-3299.	2.8	34
54	Thermal shock resistance of Si3N4 and Si3N4â€“SiC ceramics with rare-earth oxide sintering additives. Journal of the European Ceramic Society, 2014, 34, 3301-3308.	2.8	40

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55	Porous silicon nitride ceramics designed for bone substitute applications. Ceramics International, 2013, 39, 8355-8362.	2.3	60
56	Influence of the heat treatment on mechanical properties and oxidation resistance of SiCâ€“Si3N4 composites. Ceramics International, 2013, 39, 7951-7957.	2.3	10
57	Improvement of electrical conductivity of silicon nitride/carbon nano-fibers composite using magnesium silicon nitride and ytterbium oxide as sintering additives. Journal of the European Ceramic Society, 2013, 33, 2429-2434.	2.8	7
58	Influence of rare-earth oxide additives and SiC nanoparticles on the wear behaviour of Si3N4-based composites at temperatures up to 900Â°C. Wear, 2013, 300, 155-162.	1.5	29
59	Microstructure and mechanical properties of hot pressed Al2O3/SiC nanocomposites. Journal of the European Ceramic Society, 2013, 33, 2291-2298.	2.8	56
60	Influence of rare-earth oxide additives on the oxidation resistance of Si3N4â€“SiC nanocomposites. Journal of the European Ceramic Society, 2013, 33, 2259-2268.	2.8	34
61	Mechanical Properties of Porous Si₃N₄ Ceramics. Key Engineering Materials, 2013, 586, 166-169.	0.4	1
62	Corrosion behavior of silicon oxycarbide-based ceramic nanocomposites under hydrothermal conditions. International Journal of Materials Research, 2012, 103, 31-39.	0.1	35
63	Indentation Deformation and Microcracking in Î²â€<scp><scp>Si</scp></scp>₃<scp><scp>N</scp></scp>₄â€Based Nanoceramic. Journal of the American Ceramic Society, 2012, 95, 1421-1428.	1.9	8
64	The influence of dopants on loss tangent of polycrystalline alumina ceramics. Ceramics International, 2012, 38, 2043-2049.	2.3	6
65	Low loss alumina dielectrics by aqueous tape casting: The influence of composition on the loss tangent. Ceramics International, 2012, 38, 3747-3755.	2.3	11
66	Preliminary investigations of the production of MgAlON bonded refractories. Journal of the European Ceramic Society, 2012, 32, 2013-2018.	2.8	16
67	Microstructure evolution and tribological properties of TiB2/Niâ€“Ta cermets. Journal of the European Ceramic Society, 2012, 32, 1941-1948.	2.8	16
68	The influence of additives on microstrucutre of sub-micron alumina ceramics prepared by two-stage sintering. Journal of the European Ceramic Society, 2012, 32, 1965-1970.	2.8	58
69	Electrically conductive silicon carbide with the addition of TiNbC. Journal of the European Ceramic Society, 2012, 32, 2513-2518.	2.8	23
70	Luminescent Properties of Europium-Doped Lanthanum Silicon Nitride Phosphor. Journal of the Korean Ceramic Society, 2012, 49, 325-327.	1.1	2
71	Electrically Conductive Silicon Carbide without Oxide Sintering Additives. Journal of the Korean Ceramic Society, 2012, 49, 342-346.	1.1	8
72	Corrosion of Structural Ceramics Under Subâ€Critical Conditions in Aqueous Sodium Chloride Solution and in Deionized Water. Part II: Dissolution of Al₂O₃â€Based Ceramics. Journal of the American Ceramic Society, 2011, 94, 3044-3052.	1.9	12

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73	Corrosion of Structural Ceramics Under Subcritical Conditions in Aqueous Sodium Chloride Solution and in Deionized Water. Part I: Dissolution of Si₃N₄â€Based Ceramics. Journal of the American Ceramic Society, 2011, 94, 3035-3043.	1.9	15
74	Europiumâ€Doped <scp>LaSi₃N₅</scp> Ternary Nitride: Synthesis, Spectroscopy, Computed Electronic Structure and Band Gaps. Journal of the American Ceramic Society, 2011, 94, 4345-4351.	1.9	13
75	The influence of ageing on consolidation and sinterability of a sub-micron alumina powder. Powder Technology, 2011, 214, 313-321.	2.1	9
76	Processing and properties of aluminaâ€“carbon nano fibre ceramic composites using standard ceramic technology. Ceramics International, 2011, 37, 3371-3379.	2.3	11
77	Combustion synthesis of LaSi3N5:Eu2+ phosphor powders. Journal of the European Ceramic Society, 2011, 31, 151-157.	2.8	16
78	Decomposition of MgSiN2 in nitrogen atmosphere. Journal of the European Ceramic Society, 2011, 31, 1473-1480.	2.8	10
79	Processing and mechanical properties of Si3N4 composites employing polymer-derived SiAlOC as sintering aid. Journal of the European Ceramic Society, 2010, 30, 759-767.	2.8	22
80	Rare-earth element doped Si3N4/SiC micro/nano-compositesâ€”RT and HT mechanical properties. Journal of the European Ceramic Society, 2010, 30, 1931-1944.	2.8	45
81	Influence of various rare-earth oxide additives on microstructure and mechanical properties of silicon nitride based nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4771-4778.	2.6	37
82	Wear resistance of hot-pressed Si3N4/SiC micro/nanocomposites sintered with rare-earth oxide additives. Wear, 2010, 269, 867-874.	1.5	46
83	Microstructure and Mechanical Properties of Rare-Earth Doped Si3N4/SiC Nanocomposites. , 2009, , .		0
84	Mechanical properties of carbon-derived Si3N4+SiC micro/nano-composite. International Journal of Refractory Metals and Hard Materials, 2009, 27, 438-442.	1.7	14
85	Thermal shock resistance and fracture toughness of liquid-phase-sintered SiC-based ceramics. Journal of the European Ceramic Society, 2009, 29, 2387-2394.	2.8	73
86	Corrosion and oxidation behaviour of .BETA.-SiAlON ceramics via different processing route. Journal of the Ceramic Society of Japan, 2009, 117, 482-488.	0.5	6
87	Bending and Contact Strength of a Si₃N₄+SiC Micro/Nano Composite. Materials Science Forum, 2008, 567-568, 177-180.	0.3	0
88	Density functional study of structures and mechanical properties of Y-doped Î±-SiAlONs. Journal of the European Ceramic Society, 2008, 28, 995-1002.	2.8	14
89	Preparation of Euâ€Doped Î²â€SiAlON Phosphors by Combustion Synthesis. Journal of the American Ceramic Society, 2008, 91, 3082-3085.	1.9	35
90	Analysis of Tableware Mouth Impact Strength. Advanced Materials Research, 2008, 39-40, 587-590.	0.3	0

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91	Thermal analysis study of polymer-to-ceramic conversion of organosilicon precursors. Journal of Mining and Metallurgy, Section B: Metallurgy, 2008, 44, 35-38.	0.3	10
92	Corrosion Resistance of Î²-SiAlON-Based Ceramics Against Molten Steel. Materials Science Forum, 2007, 554, 147-150.	0.3	1
93	Role of Î±-SiAlON Nuclei Addition on the Rod-Like Y-Sm Î±-SiAlON Formation. Materials Science Forum, 2007, 554, 101-106.	0.3	0
94	CaOâ€“SiO2â€“Al2O3â€“Y2O3 glasses as model grain boundary phases for Si3N4 ceramics. Journal of the European Ceramic Society, 2007, 27, 429-436.	2.8	23
95	Nano/macro-hardness and fracture resistance of Si3N4/SiC composites with up to 13wt.% of SiC nano-particles. Journal of the European Ceramic Society, 2007, 27, 2145-2152.	2.8	27
96	Corrosion of Î²-sialon-based ceramics by molten steel. Journal of the European Ceramic Society, 2007, 27, 2137-2143.	2.8	20
97	Rapid formation of Î±-sialon during spark plasma sintering: Its origin and implications. Journal of the European Ceramic Society, 2007, 27, 2541-2547.	2.8	37
98	Two-Stage Sintering of Alumina with Submicrometer Grain Size. Journal of the American Ceramic Society, 2007, 90, 330-332.	1.9	139
99	Thermodynamic and Dielectric Properties of MgSiN₂ Ceramics. Key Engineering Materials, 2006, 317-318, 857-860.	0.4	4
100	Influence of Graphite Additives on Wear Properties of Hot Pressed Si3N4 Ceramics. Journal of the Ceramic Society of Japan, 2006, 114, 1061-1068.	1.3	8
101	In Situ Preparation of Si3N4/SiC Nanocomposites for Cutting Tools Application. International Journal of Applied Ceramic Technology, 2006, 3, 41-46.	1.1	15
102	Fractographic Montage for a Si3N4-SiC Nanocomposite. Journal of the American Ceramic Society, 2006, 89, 1752-1755.	1.9	5
103	Layered composites with self-diagnostic ability. Composites Part B: Engineering, 2006, 37, 515-523.	5.9	8
104	Microstructure and fracture-mechanical properties of carbon derived Si3N4+SiC nanomaterials. Materials Science and Engineering C, 2006, 26, 862-866.	3.8	14
105	Electrically conductive SiCâ€“(Nb,Ti)ssâ€“(Nb,Ti)Css cermet. Journal of the European Ceramic Society, 2006, 26, 1259-1266.	2.8	19
106	In memoriam Associate Professor Ing. VladimÃr DanÄ›k, DrSc. Chemical Papers, 2006, 60, .	1.0	0
107	Low Cost Si₃N₄/SiC Nanocomposites, Processing, RT and HT Properties. Key Engineering Materials, 2006, 317-318, 185-190.	0.4	0
108	Microstructure, hardness, and fracture toughness evolution of hot-pressed SiC/Si3N4 nano/micro composite after high-temperature treatment. International Journal of Materials Research, 2006, 97, 772-777.	0.1	4

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109	Si<SUB align=right>3O<SUB align=right>4 and Al<SUB align=right>2O<SUB align=right>3 based ceramic. International Journal of Materials and Product Technology, 2005, 23, 91.	0.1	5
110	Nano- versus macro-hardness of liquid phase sintered SiC. Journal of the European Ceramic Society, 2005, 25, 529-534.	2.8	56
111	The properties of Ti-doped ZnO films deposited by simultaneous RF and DC magnetron sputtering. Surface and Coatings Technology, 2005, 191, 286-292.	2.2	98
112	Effects of substrate temperature on the properties of heavily Al-doped ZnO films by simultaneous r.f. and d.c. magnetron sputtering. Surface and Coatings Technology, 2005, 190, 39-47.	2.2	89
113	Effects of annealing on the properties of indiumâ€“tin oxide films prepared by ion beam sputtering. Surface and Coatings Technology, 2005, 192, 106-111.	2.2	36
114	Investigation of nanocrystal-(Ti1âˆ’xAlx)Ny/amorphous-Si3N4 nanolaminate films. Surface and Coatings Technology, 2005, 194, 119-127.	2.2	30
115	Enhanced Creep Resistant Silicon-Nitride-Based Nanocomposite. Journal of the American Ceramic Society, 2005, 88, 1500-1503.	1.9	20
116	Neutron Powder Diffraction Study of Y-Sialon with La2O3 or Nd2O3 Addition. Journal of the American Ceramic Society, 2005, 88, 3542-3544.	1.9	0
117	Effect of Rare Earth Oxide and Rare Earth-Alumina-Silica Glass on Mechanical Properties of Liquid Phase Sintered Alumina Ceramics. Key Engineering Materials, 2005, 290, 246-249.	0.4	1
118	Mechanical Properties and Microstructure of Î±-SiAlON Based Cutting Tools. Key Engineering Materials, 2005, 290, 250-253.	0.4	3
119	Hardness Limits of SiC and Si₃N₄ Ceramic Materials. Key Engineering Materials, 2005, 287, 311-316.	0.4	4
120	Carbon Nanotubes Prepared by CVD. Key Engineering Materials, 2005, 290, 230-233.	0.4	0
121	Labeled Weibull Plot of a C-Derived Si₃N₄-SiC Nanocomposite. Key Engineering Materials, 2005, 290, 292-295.	0.4	0
122	Nano-Indentation of SiC and Si₃N₄/SiC Ceramic Materials. Key Engineering Materials, 2005, 290, 272-275.	0.4	0
123	The influence of La2O3 and Nd2O3 addition on aspect ratio of Y-Î±-sialon seeds. Materials Letters, 2005, 59, 3201-3204.	1.3	4
124	Gradient Structures in SiAlONÂ´s for Improved Cutting Performance. Key Engineering Materials, 2004, 264-268, 901-904.	0.4	3
125	Carbothermal reduction and nitridation of powder pyrophyllite raw material. Journal of the European Ceramic Society, 2004, 24, 791-796.	2.8	19
126	Low-cost preparation of Si3N4â€“SiC micro/nano composites by in-situ carbothermal reduction of silica in silicon nitride matrix. Journal of the European Ceramic Society, 2004, 24, 189-195.	2.8	49

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127	Investigation of nanocrystal-(Ti,Al)Nx/amorphous-SiNy composite films by co-deposition process. Surface and Coatings Technology, 2004, 177-178, 209-214.	2.2	20
128	The properties of heavily Al-doped ZnO films before and after annealing in the different atmosphere. Surface and Coatings Technology, 2004, 185, 254-263.	2.2	95
129	Reaction sintering of fluorine-doped MgSiN2. Journal of the European Ceramic Society, 2004, 24, 3367-3375.	2.8	9
130	Mechanical properties of Si3N4/SiC nanocomposites studied by instrumented indentation with spheres. Journal of the European Ceramic Society, 2004, 24, 3345-3350.	2.8	4
131	Some tribological properties of a carbon-derived Si3N4/SiC nanocomposite. Journal of the European Ceramic Society, 2004, 24, 3431-3435.	2.8	30
132	Creep behavior of a carbon-derived Si3N4/SiC nanocomposite. Journal of the European Ceramic Society, 2004, 24, 3307-3315.	2.8	26
133	The Formation of Two Types of SiC Inclusions in Si₃N₄/SiC Nanocomposites. Key Engineering Materials, 2004, 264-268, 2305-2310.	0.4	4
134	Wear and Creep Characteristics of a Carbon-Derived Si3N4/SiC Micro/Nanocomposite. Materialwissenschaft Und Werkstofftechnik, 2003, 34, 338-342.	0.5	8
135	Electronic Structure and Bulk Properties of Î²â€²-SiAlONs. Journal of the American Ceramic Society, 2003, 86, 1162-1167.	1.9	13
136	Influence of * and * SiC Seeds on Microstructural Development and Mechanical Properties of Liquid Phase Sintered SiC with RE₂O₃ and AlN Additives. Solid State Phenomena, 2003, 90-91, 273-278.	0.3	4
137	Characterisation of Alumina-Based Metal Cutting Tools. Key Engineering Materials, 2002, 206-213, 661-664.	0.4	0
138	Low Cost SiC/Si₃N₄ Nanocomposites. Key Engineering Materials, 2002, 206-213, 1061-1064.	0.4	9
139	Mechanical Properties of Recently Developed Si₃N₄-SiC Nanocomposite. Key Engineering Materials, 2002, 223, 233-236.	0.4	2
140	BN Coated Whisker - Reinforced Silicon Nitride. Key Engineering Materials, 2002, 223, 237-240.	0.4	0
141	Creep Mechanism of SiCN-Derived Nano/Micro Composite. Key Engineering Materials, 2002, 223, 201-208.	0.4	4
142	The Influence of Sintering Additives on the Fracture Behaviour and Wear of Liquid-Phase Sintered Polycrystalline Alumina. Key Engineering Materials, 2002, 223, 227-232.	0.4	8
143	Importance of chemistry in high-tech ceramics design. Pure and Applied Chemistry, 2002, 74, 2137-2144.	0.9	5
144	Polysilazane derived micro/nano Si3N4/SiC composites. Journal of the European Ceramic Society, 2002, 22, 2963-2968.	2.8	27

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145	Carbon reduction reaction in the Y2O3â€“SiO2 glass system at high temperature. Journal of the European Ceramic Society, 2001, 21, 2797-2801.	2.8	21
146	Low-cycle fatigue strength under step loading of a Si3N4 + SiC nanocomposite at 1350Â°C. Journal of Materials Science, 2001, 36, 4469-4477.	1.7	6
147	Composition and Morphology Control of Si-C-N Powders by CVD Method. Key Engineering Materials, 2000, 175-176, 49-56.	0.4	3
148	Dynamic Fatigue and Fracture Toughness of Si₃N₄ + SiC Nanocomposite at 1350Â°C. Key Engineering Materials, 2000, 175-176, 311-320.	0.4	7
149	Silicon Nitride/Carbide Nano/Micro Composites for Room as well as High Temperature Applications. Key Engineering Materials, 2000, 175-176, 289-300.	0.4	11
150	Silicon carbide powder synthesis by chemical vapour deposition from silane/acetylene reaction system. Journal of the European Ceramic Society, 2000, 20, 1939-1946.	2.8	39
151	SiC/Si3N4 nano/micro-composite â€" processing, RT and HT mechanical properties. Journal of the European Ceramic Society, 2000, 20, 453-462.	2.8	82
152	Dynamic fatigue of a Si3N4+SiC nanocomposite at 1350Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 291, 250-255.	2.6	9
153	Multifunctional Si3N4/(Î²-SiAlON+TiN) layered composites. Journal of the European Ceramic Society, 2000, 20, 347-355.	2.8	22
154	Silicon Nitride Based Nano- and Micro-Composites with Enhanced Mechanical Properties. Key Engineering Materials, 1999, 159-160, 405-410.	0.4	9
155	Crystallisation, Thermal Expansion and Density of Si-Al-Y-O Glasses for Ceramics. Key Engineering Materials, 1999, 175-176, 125-130.	0.4	0
156	In-Situ Carbon Content Adjustment in Polysilazane Derived Amorphous SiCN Bulk Ceramics. Journal of the European Ceramic Society, 1999, 19, 1911-1921.	2.8	38
157	Local chemistry changes in Si3N4 based ceramics during hot-pressing and subsequent annealing. Journal of the European Ceramic Society, 1999, 19, 2027-2032.	2.8	4
158	Fracture Toughness of a Silicon Nitride/Silicon Carbide Nanocomposite at 1350Â°C. Journal of the American Ceramic Society, 1999, 82, 3613-3615.	1.9	10
159	Sub-Grain Boundary Formation in Si₃N₄ Based Ceramics. Key Engineering Materials, 1998, 161-163, 229-234.	0.4	4
160	Fracture Characteristics of Layered and Nano-Particle Reinforced Si3N4. , 1998, , 187-205.		5
161	Synthesis and microstructure of conformal coatings on particulates. Materials Research Society Symposia Proceedings, 1997, 501, 313.	0.1	0
162	Microstructurally induced internal stresses in Î²-Si3N4 whisker-reinforced Si3N4 ceramics. Journal of the European Ceramic Society, 1997, 17, 1093-1097.	2.8	9

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163	Crystallization Induced Sub-Grain Boundaries in Silicon Nitride. , 1997, , 213-228.		2
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