Jef Vleugels

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9303830/publications.pdf

Version: 2024-02-01

491 papers	14,867 citations	22146 59 h-index	46795 89 g-index
509 all docs	509 docs citations	509 times ranked	10785 citing authors

#	Article	IF	Citations
1	Selective laser melting of nano-TiB2 decorated AlSi10Mg alloy with high fracture strength and ductility. Acta Materialia, 2017, 129, 183-193.	7.9	552
2	Meta-Analysis of Research on Class Size and Achievement. Educational Evaluation and Policy Analysis, 1979, 1, 2-16.	2.5	404
3	Modelling of the temperature distribution during field assisted sintering. Acta Materialia, 2005, 53, 4379-4388.	7.9	399
4	Strength, toughness and aging stability of highly-translucent Y-TZP ceramics for dental restorations. Dental Materials, 2016, 32, e327-e337.	3.5	260
5	Additive manufacturing of zirconia parts by indirect selective laser sintering. Journal of the European Ceramic Society, 2014, 34, 81-89.	5.7	183
6	Selective laser melting of tungsten and tungsten alloys. International Journal of Refractory Metals and Hard Materials, 2018, 72, 27-32.	3.8	160
7	Additive manufacturing of alumina parts by indirect selective laser sintering and post processing. Journal of Materials Processing Technology, 2013, 213, 1484-1494.	6.3	152
8	Influence of sintering conditions on low-temperature degradation of dental zirconia. Dental Materials, 2014, 30, 669-678.	3.5	123
9	NbC as grain growth inhibitor and carbide in WCâ€“Co hardmetals. International Journal of Refractory Metals and Hard Materials, 2008, 26, 389-395.	3.8	119
10	Aging resistance of surface-treated dental zirconia. Dental Materials, 2015, 31, 182-194.	3.5	119
11	Friction and wear characteristics of WCâ€“Co cemented carbides in dry reciprocating sliding contact. Wear, 2010, 268, 1504-1517.	3.1	118
12	Highly-translucent, strong and aging-resistant 3Y-TZP ceramics for dental restoration by grain boundary segregation. Acta Biomaterialia, 2015, 16, 215-222.	8.3	117
13	Synthesis of the new MAX phase Zr 2 AlC. Journal of the European Ceramic Society, 2016, 36, 1847-1853.	5.7	116
14	Microstructure and mechanical properties of pulsed electric current sintered B4Câ€“TiB2 composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1302-1309.	5.6	114
15	High-temperature bending strength, internal friction and stiffness of ZrB2â€“20vol% SiC ceramics. Journal of the European Ceramic Society, 2012, 32, 2519-2527.	5.7	112
16	Crystallographic and morphological analysis of sandblasted highly translucent dental zirconia. Dental Materials, 2018, 34, 508-518.	3.5	112
17	Transformation behaviour of tetragonal zirconia: role of dopant content and distribution. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 366, 338-347.	5.6	111
18	ZrB₂ Powders Synthesis by Borothermal Reduction. Journal of the American Ceramic Society, 2010, 93, 1586-1590.	3.8	108

#	Article	IF	Citations
19	Microstructureâ€“toughnessâ€“wear relationship of tetragonal zirconia ceramics. Journal of the European Ceramic Society, 2004, 24, 2031-2040.	5.7	105
20	Extrusion-based 3D Printing of Ceramic Components. Procedia CIRP, 2015, 28, 76-81.	1.9	103
21	Preparation and indirect selective laser sintering of alumina/PA microspheres. Ceramics International, 2012, 38, 1241-1247.	4.8	101
22	3Y-TZP ceramics with improved hydrothermal degradation resistance and fracture toughness. Journal of the European Ceramic Society, 2014, 34, 2453-2463.	5.7	98
23	Synthesis of the novel Zr 3 AlC 2 MAX phase. Journal of the European Ceramic Society, 2016, 36, 943-947.	5.7	98
24	Binderless WC and WCâ€“VC materials obtained by pulsed electric current sintering. International Journal of Refractory Metals and Hard Materials, 2008, 26, 41-47.	3.8	95
25	Staphylococcal biofilm growth on smooth and porous titanium coatings for biomedical applications. Journal of Biomedical Materials Research - Part A, 2014, 102, 215-224.	4.0	95
26	VC, Cr3C2 and NbC doped WCâ€“Co cemented carbides prepared by pulsed electric current sintering. International Journal of Refractory Metals and Hard Materials, 2007, 25, 417-422.	3.8	89
27	Hybrid sintering with a tubular susceptor in a cylindrical single-mode microwave furnace. Acta Materialia, 2000, 48, 3795-3801.	7.9	88
28	Aqueous electrophoretic deposition in asymmetric AC electric fields (ACâ€“EPD). Electrochemistry Communications, 2009, 11, 57-60.	4.7	85
29	Effect of cation dopant radius on the hydrothermal stability of tetragonal zirconia: Grain boundary segregation and oxygen vacancy annihilation. Acta Materialia, 2016, 106, 48-58.	7.9	85
30	Direct Selective Laser Sintering/Melting of High Density Alumina Powder Layers at Elevated Temperatures. Physics Procedia, 2014, 56, 117-124.	1.2	84
31	Critical influence of alumina content on the low temperature degradation of 2â€“3mol% yttria-stabilized TZP for dental restorations. Journal of the European Ceramic Society, 2015, 35, 741-750.	5.7	84
32	Synthesis and microstructural features of ZrB2â€“SiC-based composites by reactive spark plasma sintering and reactive hot pressing. Scripta Materialia, 2007, 57, 317-320.	5.2	83
33	Fungal Î²-1,3-Glucan Increases Ofloxacin Tolerance of Escherichia coli in a Polymicrobial E. coli/Candida albicans Biofilm. Antimicrobial Agents and Chemotherapy, 2015, 59, 3052-3058.	3.2	83
34	Hard, tough and strong ZrO2â€“WC composites from nanosized powders. Journal of the European Ceramic Society, 2005, 25, 55-63.	5.7	80
35	Processing of ultrafine ZrO2 toughened WC composites. Journal of the European Ceramic Society, 2009, 29, 3371-3378.	5.7	78
36	Thermodynamic prediction of the nonstoichiometric phase Zr1â€“zCezO2â€“x in the ZrO2â€“CeO1.5â€“CeO2 system. Journal of the European Ceramic Society, 2003, 23, 99-106.	5.7	77

#	Article	IF	Citations
37	Laser surface texturing of zirconia-based ceramics for dental applications: A review. Materials Science and Engineering C, 2021, 123, 112034.	7.3	76
38	Field assisted sintering of electro-conductive ZrO2-based composites. Journal of the European Ceramic Society, 2007, 27, 979-985.	5.7	75
39	In situ synthesis and densification of submicrometer-grained B4Câ€“TiB2 composites by pulsed electric current sintering. Journal of the European Ceramic Society, 2011, 31, 637-644.	5.7	75
40	Grain boundary segregation in high-purity, yttria-stabilized tetragonal zirconia polycrystals (Y-TZP). Journal of the European Ceramic Society, 1998, 18, 1565-1570.	5.7	71
41	Influence of humidity on the fretting wear of self-mated tetragonal zirconia ceramics. Acta Materialia, 2000, 48, 2461-2471.	7.9	70
42	Synthesis of MAX Phases in the Zr-Ti-Al-C System. Inorganic Chemistry, 2017, 56, 3489-3498.	4.0	70
43	A Current Opinion on Electrophoretic Deposition in Pulsed and Alternating Fields. Journal of Physical Chemistry B, 2013, 117, 1516-1526.	2.6	69
44	Synthesis and characterization of Cr2AlC ceramics prepared by spark plasma sintering. Materials Letters, 2007, 61, 4442-4445.	2.6	68
45	Covalent immobilization of antimicrobial agents on titanium preventsStaphylococcus aureusandCandida albicanscolonization and biofilm formation. Journal of Antimicrobial Chemotherapy, 2016, 71, 936-945.	3.0	68
46	Functionally graded WCâ€“Co materials produced by electrophoretic deposition. Scripta Materialia, 2001, 45, 1139-1145.	5.2	67
47	Functionally graded ceramic and ceramicâ€“metal composites shaped by electrophoretic deposition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 222, 223-232.	4.7	67
48	ZrO2â€“WC nanocomposites with superior properties. Journal of the European Ceramic Society, 2007, 27, 1247-1251.	5.7	67
49	High temperature strength of hot pressed ZrB2â€“20vol% SiC ceramics based on ZrB2 starting powders prepared by different carbo/boro-thermal reduction routes. Journal of the European Ceramic Society, 2013, 33, 1609-1614.	5.7	67
50	Synergistic Activity of the Plant Defensin HsAFP1 and Caspofungin against Candida albicans Biofilms and Planktonic Cultures. PLoS ONE, 2015, 10, e0132701.	2.5	67
51	Mechanical properties, aging stability and translucency of speed-sintered zirconia for chairside restorations. Dental Materials, 2020, 36, 959-972.	3.5	66
52	Carbon nanofillers for machining insulating ceramics. Materials Today, 2011, 14, 496-501.	14.2	65
53	Strong static magnetic field processing of metallic materials: A review. Current Opinion in Solid State and Materials Science, 2012, 16, 254-267.	11.5	65
54	Direct laser sintering of reaction bonded silicon carbide with low residual silicon content. Journal of the European Ceramic Society, 2018, 38, 3709-3717.	5.7	65

#	Article	IF	Citations
55	Material Evaluation to Prevent Nozzle Clogging during Continuous Casting of Al Killed Steels.. ISIJ International, 2002, 42, 1234-1240.	1.4	64
56	Isostatic pressing assisted indirect selective laser sintering of alumina components. Rapid Prototyping Journal, 2012, 18, 409-419.	3.2	64
57	Ectopic bone formation by 3D porous calcium phosphate-Ti6Al4V hybrids produced by perfusion electrodeposition. Biomaterials, 2012, 33, 4044-4058.	11.4	64
58	Shaping of engineering ceramics by electro, chemical and physical processes. CIRP Annals - Manufacturing Technology, 2016, 65, 761-784.	3.6	64
59	Hard and tough carbon nanotube-reinforced zirconia-toughened alumina composites prepared by spark plasma sintering. Carbon, 2012, 50, 706-717.	10.3	63
60	Peri- and intra-implant bone response to microporous Ti coatings with surface modification. Acta Biomaterialia, 2014, 10, 986-995.	8.3	63
61	Fretting wear behavior of TiB2-based materials against bearing steel under water and oil lubrication. Wear, 2001, 250, 631-641.	3.1	61
62	Toughness tailoring of yttria-doped zirconia ceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 380, 215-221.	5.6	61
63	High-translucent yttria-stabilized zirconia ceramics are wear-resistant and antagonist-friendly. Dental Materials, 2019, 35, 1776-1790.	3.5	61
64	ZrO2â€“Al2O3 composites with tailored toughness. Journal of Alloys and Compounds, 2004, 372, 278-284.	5.5	60
65	The Nonsteroidal Antiinflammatory Drug Diclofenac Potentiates the In Vivo Activity of Caspofungin Against Candida albicans Biofilms. Journal of Infectious Diseases, 2012, 206, 1790-1797.	4.0	60
66	The radish defensins RsAFP1 and RsAFP2 act synergistically with caspofungin against Candida albicans biofilms. Peptides, 2016, 75, 71-79.	2.4	59
67	Theoretical Prediction and Synthesis of (Cr_{2/3}Zr_{1/3})₂AlC i-MAX Phase. Inorganic Chemistry, 2018, 57, 6237-6244.	4.0	59
68	Effect of WC particle size and Ag volume fraction on electrical contact resistance and thermal conductivity of Agâ€“WC contact materials. Materials and Design, 2015, 85, 412-422.	7.0	58
69	Influence of Carbon Nanoparticle Addition (and Impurities) on Selective Laser Melting of Pure Copper. Materials, 2019, 12, 2469.	2.9	58
70	Development and Characterization of Y₂O₃â€Stabilized ZrO₂ (Yâ€TZP) Composites with TiB₂, TiN, TiC, and TiC_{0.5}N_{0.5}. Journal of the American Ceramic Society, 1999, 82, 2717-2720.	3.8	57
71	Synthesis of MAX Phases in the Hfâ€“Alâ€“C System. Inorganic Chemistry, 2016, 55, 10922-10927.	4.0	57
72	Mechanical properties of Y2O3/Al2O3-coated Y-TZP ceramics. Journal of the European Ceramic Society, 2002, 22, 873-881.	5.7	56

#	Article	IF	Citations
73	Synthesis, microstructure and mechanical properties of Yttria Stabilized Zirconia (3YTZP) â€“ Multi-Walled Nanotube (MWNTs) nanocomposite by direct in-situ growth of MWNTs on Zirconia particles. Composites Science and Technology, 2010, 70, 2086-2092.	7.8	55
74	Extrusion-based additive manufacturing of ZrO2 using photoinitiated polymerization. CIRP Journal of Manufacturing Science and Technology, 2016, 14, 28-34.	4.5	55
75	Electrically conductive ZrO2â€“TiN composites. Journal of the European Ceramic Society, 2006, 26, 3173-3179.	5.7	54
76	(Nb_x, Zr_{1â€“x})₄AlC₃ MAX Phase Solid Solutions: Processing, Mechanical Properties, and Density Functional Theory Calculations. Inorganic Chemistry, 2016, 55, 5445-5452.	4.0	54
77	ZrB2â€“SiC composites prepared by reactive pulsed electric current sintering. Journal of the European Ceramic Society, 2010, 30, 2633-2642.	5.7	53
78	Importance of tetragonal phase in high-translucent partially stabilized zirconia for dental restorations. Dental Materials, 2020, 36, 491-500.	3.5	52
79	Estimation of the phase diagram for the ZrO2â€“Y2O3â€“CeO2 system. Journal of the European Ceramic Society, 2001, 21, 2903-2910.	5.7	51
80	The influence of percolation during pulsed electric current sintering of ZrO2â€“TiN powder compacts with varying TiN content. Acta Materialia, 2007, 55, 1801-1811.	7.9	51
81	Correlation between physical, electrical, and optical properties of Cu2ZnSnSe4 based solar cells. Applied Physics Letters, 2013, 102, 013902.	3.3	51
82	Strong <scp><scp>ZrB</scp></scp>₂â€“<scp><scp>SiC</scp></scp>â€“<scp><scp>WC</scp></scp> Ceramics at 1600Â°C. Journal of the American Ceramic Society, 2012, 95, 874-878.	3.8	50
83	Shaping ceramics through indirect selective laser sintering. Rapid Prototyping Journal, 2016, 22, 544-558.	3.2	50
84	Spark Plasma Sintering of Superhard <scp><scp>B</scp></scp>₄<scp><scp>C</scp></scp>â€“<scp><scp>ZrB</scp></scp>₂ Ceramics by Carbide Boronizing. Journal of the American Ceramic Society, 2013, 96, 1055-1059.	3.8	49
85	Spark Plasma Sintering As a Solid-State Recycling Technique: The Case of Aluminum Alloy Scrap Consolidation. Materials, 2014, 7, 5664-5687.	2.9	49
86	Microstructure and mechanical properties of NbC-matrix hardmetals with secondary carbide addition and different metal binders. International Journal of Refractory Metals and Hard Materials, 2015, 48, 418-426.	3.8	49
87	Effect of processing parameters on microstructure and properties of tungsten heavy alloys fabricated by SLM. International Journal of Refractory Metals and Hard Materials, 2019, 82, 23-30.	3.8	49
88	Influence of the suspension composition on the electric field and deposition rate during electrophoretic deposition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 245, 35-39.	4.7	48
89	Influence of the type and grain size of the electro-conductive phase on the Wire-EDM performance of ZrO 2 ceramic composites. CIRP Annals - Manufacturing Technology, 2008, 57, 191-194.	3.6	48
90	Preparation of Y2O3-coated ZrO2 powder by suspension drying. Journal of Materials Science Letters, 2000, 19, 359-361.	0.5	47

#	Article	IF	Citations
91	Electrophoretic deposition for coatings and free standing objects. Journal of Materials Science, 2004, 39, 779-785.	3.7	47
92	Niobium carbide for wear protection â€“ tailoring its properties by processing and stoichiometry. Metal Powder Report, 2016, 71, 265-272.	0.1	47
93	Processing and mechanical properties of ZrO2â€“TiB2 composites. Journal of the European Ceramic Society, 2005, 25, 3629-3637.	5.7	46
94	In vivo Candida glabrata biofilm development on foreign bodies in a rat subcutaneous model. Journal of Antimicrobial Chemotherapy, 2015, 70, 846-856.	3.0	46
95	A new method to texture dense M+1AX ceramics by spark plasma deformation. Scripta Materialia, 2016, 111, 98-101.	5.2	46
96	Development of ZrO2â€“ZrB2 composites. Journal of Alloys and Compounds, 2002, 334, 200-204.	5.5	45
97	Gradient profile prediction in functionally graded materials processed by electrophoretic deposition. Acta Materialia, 2003, 51, 6303-6317.	7.9	45
98	The effect of residual stresses in functionally graded aluminaâ€“ZTA composites on their wear and friction behaviour. Journal of the European Ceramic Society, 2007, 27, 151-156.	5.7	45
99	Perfusion electrodeposition of calcium phosphate on additive manufactured titanium scaffolds for bone engineering. Acta Biomaterialia, 2011, 7, 2310-2319.	8.3	45
100	Improving high temperature properties of hot pressed ZrB2â€“20vol% SiC ceramic using high purity powders. Ceramics International, 2013, 39, 871-876.	4.8	45
101	Lifetime estimation of zirconia ceramics by linear ageing kinetics. Acta Materialia, 2015, 92, 290-298.	7.9	45
102	Microstructure and tribological performance of NbC-Ni cermets modified by VC and Mo2C. International Journal of Refractory Metals and Hard Materials, 2017, 66, 188-197.	3.8	45
103	Synthesis and Characterization of Double Solid Solution (Zr,Ti)₂(Al,Sn)C MAX Phase Ceramics. Inorganic Chemistry, 2019, 58, 6669-6683.	4.0	45
104	Additively Manufactured Zirconia for Dental Applications. Materials, 2021, 14, 3694.	2.9	45
105	Residual compressive surface stress increases the bending strength of dental zirconia. Dental Materials, 2017, 33, e147-e154.	3.5	44
106	The double solid solution (Zr, Nb)2(Al, Sn)C MAX phase: a steric stability approach. Scientific Reports, 2018, 8, 12801.	3.3	44
107	Effects of Re2O3 (Re=La, Nd, Y and Yb) addition in hot-pressed ZrB2â€“SiC ceramics. Journal of the European Ceramic Society, 2009, 29, 3063-3068.	5.7	43
108	Reduction of Biofilm Infection Risks and Promotion of Osteointegration for Optimized Surfaces of Titanium Implants. Advanced Healthcare Materials, 2012, 1, 117-127.	7.6	43

#	Article	IF	Citations
109	Optoelectronic properties of thin film Cu2ZnGeSe4 solar cells. Solar Energy Materials and Solar Cells, 2017, 171, 136-141.	6.2	43
110	Transformation-induced damping behaviour of Y-TZP zirconia ceramics. Journal of the European Ceramic Society, 2003, 23, 481-489.	5.7	42
111	Origin of the Potential Drop Over the Deposit During Electrophoretic Deposition. Journal of the American Ceramic Society, 2006, 89, 823-828.	3.8	42
112	The role of chemical wear in machining iron based materials by PCD and PCBN super-hard tool materials. Diamond and Related Materials, 2007, 16, 435-445.	3.9	42
113	Influence of secondary electro-conductive phases on the electrical discharge machinability and frictional behavior of ZrO2-based ceramic composites. Journal of Materials Processing Technology, 2008, 208, 423-430.	6.3	42
114	Impact of Cr3C2/VC addition on the dry sliding friction and wear response of WCâ€“Co cemented carbides. Wear, 2009, 267, 1642-1652.	3.1	42
115	Effect of heating rate on densification, microstructure and strength of spark plasma sintered ZrB2-based ceramics. Scripta Materialia, 2010, 62, 802-805.	5.2	42
116	The antifungal caspofungin increases fluoroquinolone activity against Staphylococcus aureus biofilms by inhibiting N-acetylglucosamine transferase. Nature Communications, 2016, 7, 13286.	12.8	41
117	Degradation mechanisms of alumina-chromia refractories for secondary copper smelter linings. Corrosion Science, 2018, 136, 409-417.	6.6	41
118	Influence of WC addition on the microstructure and mechanical properties of NbCâ€“Co cermets. Journal of Alloys and Compounds, 2007, 430, 158-164.	5.5	40
119	Mechanical properties of spark plasma sintered FeAl intermetallics. Intermetallics, 2010, 18, 1410-1414.	3.9	40
120	Electrophoretic deposition of zirconia layers for thermal barrier coatings. Journal of Materials Science, 2006, 41, 8086-8092.	3.7	39
121	In situ platelet-toughened TiB2â€“SiC composites prepared by reactive pulsed electric current sintering. Scripta Materialia, 2011, 64, 1145-1148.	5.2	39
122	Strong Magnetic Field Effect on Surface Tension Associated with an Interfacial Magnetic Pressure. Journal of Physical Chemistry C, 2012, 116, 17676-17681.	3.1	39
123	High temperature strain hardening behavior in double forged and potassium doped tungsten. Journal of Nuclear Materials, 2014, 444, 214-219.	2.7	39
124	Interaction of Mn+1AXn phases with oxygen-poor, static and fast-flowing liquid lead-bismuth eutectic. Journal of Nuclear Materials, 2019, 520, 258-272.	2.7	39
125	Impact of sandblasting on the flexural strength of highly translucent zirconia. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 115, 104268.	3.1	39
126	Potentials of niobium carbide (NbC) as cutting tools and for wear protection. International Journal of Refractory Metals and Hard Materials, 2018, 72, 380-387.	3.8	38

#	Article	IF	Citations
127	Synthesis, properties and thermal decomposition of the Ta4AlC3 MAX phase. Journal of the European Ceramic Society, 2019, 39, 2973-2981.	5.7	38
128	A Mathematical Description of the Kinetics of the Electrophoretic Deposition Process for Al₂O₃â€Based Suspensions. Journal of the American Ceramic Society, 2005, 88, 2036-2039.	3.8	37
129	Electrophoretic Deposition as a Novel Near Net Shaping Technique for Functionally Graded Biomaterials. Key Engineering Materials, 2006, 314, 213-218.	0.4	37
130	Properties of NbCâ€“Co cermets obtained by spark plasma sintering. Materials Letters, 2007, 61, 574-577.	2.6	36
131	Slow crack growth and hydrothermal aging stability of an alumina-toughened zirconia composite made from La2O3-doped 2Y-TZP. Journal of the European Ceramic Society, 2017, 37, 1865-1871.	5.7	36
132	Reactive hot pressing route for dense ZrB2-SiC and ZrB2-SiC-CNT ultra-high temperature ceramics. Journal of the European Ceramic Society, 2020, 40, 5012-5019.	5.7	36
133	Electrophoretic deposition of bacterial cells. Electrochemistry Communications, 2009, 11, 1842-1845.	4.7	35
134	Density improvement of alumina parts produced through selective laser sintering of alumina-polyamide composite powder. CIRP Annals - Manufacturing Technology, 2012, 61, 211-214.	3.6	35
135	Additive manufacturing of zirconia ceramics by material jetting. Journal of the European Ceramic Society, 2021, 41, 5292-5306.	5.7	35
136	Dry Reciprocating Sliding Friction and Wear Response of WCâ€“Ni Cemented Carbides. Tribology Letters, 2008, 31, 199-209.	2.6	34
137	VC- and Cr3C2-doped WCâ€“NbCâ€“Co hardmetals. Journal of Alloys and Compounds, 2008, 464, 205-211.	5.5	34
138	Effect of calcia co-doping on ceria-stabilized zirconia. Journal of the European Ceramic Society, 2018, 38, 2621-2631.	5.7	33
139	NbC grain growth control and mechanical properties of Ni bonded NbC cermets prepared by vacuum liquid phase sintering. International Journal of Refractory Metals and Hard Materials, 2018, 72, 63-70.	3.8	33
140	Chemical wear mechanisms of innovative ceramic cutting tools in the machining of steel. Wear, 1999, 225-229, 285-294.	3.1	32
141	The innovative impulse excitation technique for high-temperature mechanical spectroscopy. Journal of Alloys and Compounds, 2000, 310, 284-287.	5.5	32
142	Influence of starting powder on the microstructure of WCâ€“Co hardmetals obtained by spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 475, 87-91.	5.6	32
143	Pulsed electric current sintering and characterization of ultrafine Al2O3â€“WC composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 584-589.	5.6	32
144	Electrical discharge machining of B4Câ€“TiB2 composites. Journal of the European Ceramic Society, 2011, 31, 2023-2030.	5.7	32

#	Article	IF	Citations
145	A top-down approach to densify ZrB2â€“SiCâ€“BN composites with deeper homogeneity and improved reliability. Chemical Engineering Journal, 2014, 249, 93-101.	12.7	32
146	Chemical interaction between a sialon cutting tool and iron-based alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 187, 177-182.	5.6	31
147	Friction and wear behaviour of SiAlON ceramics under fretting contacts. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 359, 228-236.	5.6	31
148	Composition design and mechanical properties of mixed (Ce,Y)-TZP ceramics obtained from coated starting powders. Journal of the European Ceramic Society, 2005, 25, 3109-3115.	5.7	31
149	Development of ZrO2â€“WC composites by pulsed electric current sintering. Journal of the European Ceramic Society, 2007, 27, 3269-3275.	5.7	31
150	Ta-based 413 and 211 MAX phase solid solutions with Hf and Nb. Journal of the European Ceramic Society, 2020, 40, 1829-1838.	5.7	31
151	Bone Tissue Response to Porous and Functionalized Titanium and Silica Based Coatings. PLoS ONE, 2011, 6, e24186.	2.5	31
152	Influence of the oxygen partial pressure on the reduction of CeO2 and CeO2ZrO2 ceramics. Solid State Sciences, 2005, 7, 539-544.	3.2	30
153	Hexagonal BN-encapsulated ZrB2 particle by nitride boronizing. Acta Materialia, 2014, 72, 167-177.	7.9	30
154	Titanium implants with modified surfaces: Meta-analysis of in vivo osteointegration. Materials Science and Engineering C, 2015, 49, 152-158.	7.3	30
155	Solid state recycling of pure Mg and AZ31 Mg machining chips via spark plasma sintering. Materials and Design, 2016, 109, 520-529.	7.0	30
156	Influence of alloying elements on the chemical reactivity between Siâ€“Alâ€“Oâ€“N ceramics and iron-based alloys. Journal of Materials Research, 1996, 11, 1265-1276.	2.6	29
157	Unlubricated fretting wear of TiB2-containing composites against bearing steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 3847-3859.	2.2	29
158	Ultrafine Al2O3â€“B4C composites consolidated by pulsed electric current sintering. Journal of Alloys and Compounds, 2010, 499, 200-205.	5.5	29
159	Porous Titanium Coatings Through Electrophoretic Deposition of TiH₂ Suspensions. Advanced Engineering Materials, 2011, 13, 509-515.	3.5	29
160	Antibacterial activity of a new broadâ€spectrum antibiotic covalently bound to titanium surfaces. Journal of Orthopaedic Research, 2016, 34, 2191-2198.	2.3	29
161	The stability of irradiation-induced defects in Zr3AlC2, Nb4AlC3 and (Zr0.5,Ti0.5)3AlC2 MAX phase-based ceramics. Acta Materialia, 2020, 183, 24-35.	7.9	29
162	Statistical extreme value modeling of particle size distributions: experimental grain size distribution type estimation and parameterization of sintered zirconia. Materials Characterization, 2000, 45, 61-70.	4.4	28

#	Article	IF	Citations
163	Synthesis and characterisation of CeO2-coated ZrO2 powder-based TZP. Materials Letters, 2000, 46, 249-254.	2.6	28
164	Stability of intergranular phases in hot-pressed Si3N4 studied with mechanical spectroscopy and in-situ high-temperature XRD. Journal of the European Ceramic Society, 2002, 22, 1897-1904.	5.7	28
165	In situ formation of Si2N2O and TiN in Si3N4-based ceramic composites. Acta Materialia, 2005, 53, 2547-2554.	7.9	28
166	Influence of surfactant addition sequence on the suspension properties and electrophoretic deposition behaviour of alumina and zirconia. Journal of the European Ceramic Society, 2006, 26, 933-939.	5.7	28
167	Production of Porous Materials Through Consolidation of Pickering Emulsions. Advanced Engineering Materials, 2007, 9, 57-59.	3.5	28
168	Surface finishing: Impact on tribological characteristics of WCâ€“Co hardmetals. Tribology International, 2010, 43, 40-54.	5.9	28
169	Systems Biology Reveals MicroRNA-Mediated Gene Regulation. Frontiers in Genetics, 2011, 2, 29.	2.3	28
170	Bioactive glassâ€“ceramic coated titanium implants prepared by electrophoretic deposition. Materials Science and Engineering C, 2012, 32, 2267-2273.	7.3	28
171	Powder synthesis and densification of ultrafine B4C-ZrB2 composite by pulsed electrical current sintering. Journal of the European Ceramic Society, 2014, 34, 1923-1933.	5.7	28
172	Microstructure and mechanical properties of NbC matrix cermets using Ni containing metal binder. Metal Powder Report, 2016, 71, 349-355.	0.1	28
173	Mechanical properties and cytocompatibility of dense and porous Zn produced by laser powder bed fusion for biodegradable implant applications. Acta Biomaterialia, 2020, 110, 289-302.	8.3	28
174	Influence of electrical discharge machining on the reciprocating sliding wear response of WC-Co cemented carbides. Wear, 2009, 266, 84-95.	3.1	27
175	Electrical characterization of Cu2ZnSnSe4 solar cells from selenization of sputtered metal layers. Thin Solid Films, 2013, 535, 348-352.	1.8	27
176	Transparent tetragonal-cubic zirconia composite ceramics densified by spark plasma sintering and hot isostatic pressing. Journal of the European Ceramic Society, 2019, 39, 1428-1435.	5.7	27
177	Mechanical propertiesâ€“translucencyâ€“microstructure relationships in commercial monolayer and multilayer monolithic zirconia ceramics. Dental Materials, 2022, 38, 797-810.	3.5	27
178	Microstructural engineering of functionally graded materials by electrophoretic deposition. Journal of Materials Processing Technology, 2003, 143-144, 572-577.	6.3	26
179	Tribological Characteristics of WC-Ni and WC-Co Cemented Carbide in Dry Reciprocating Sliding Contact. Tribology Transactions, 2009, 52, 481-491.	2.0	26
180	Nutritional relationships between hemi-parasitic mistletoe and some of its deciduous hosts in different habitats. Biologia (Poland), 2010, 65, 859-867.	1.5	26

#	Article	IF	Citations
181	Pulsed electric current, in situ synthesis and sintering of textured TiB2 ceramics. Journal of the European Ceramic Society, 2010, 30, 1043-1047.	5.7	26
182	Impact of wire-EDM on dry sliding friction and wear of WC-based and ZrO2-based composites. Wear, 2011, 271, 1951-1961.	3.1	26
183	Novel processing of Ag-WC electrical contact materials using spark plasma sintering. Materials and Design, 2017, 121, 262-271.	7.0	26
184	Effect of TiX(X=C, N, O) additives on microstructure and properties of silicon nitride based ceramics. Scripta Materialia, 2005, 53, 669-673.	5.2	25
185	Influence of electrical discharge machining on the reciprocating sliding friction and wear response of WCâ€“Co cemented carbides. International Journal of Refractory Metals and Hard Materials, 2009, 27, 350-359.	3.8	25
186	EDM machinability and frictional behavior of ZrO2-WC composites. International Journal of Advanced Manufacturing Technology, 2009, 41, 1085-1093.	3.0	25
187	Novel anti-infective implant substrates: Controlled release of antibiofilm compounds from mesoporous silica-containing macroporous titanium. Colloids and Surfaces B: Biointerfaces, 2015, 126, 481-488.	5.0	25
188	Textured BaTiO3 by templated grain growth and electrophoretic deposition. Journal of Materials Science, 2015, 50, 7896-7907.	3.7	25
189	Alterations of thorium oxalate morphology by changing elementary precipitation conditions. Journal of Nuclear Materials, 2017, 493, 255-263.	2.7	25
190	Bonding Effectiveness to Differently Sandblasted Dental Zirconia. Journal of Adhesive Dentistry, 2015, 17, 235-42.	0.5	25
191	A study of slag-infiltrated magnesia-chromite refractories using hybrid microwave heating. Journal of the European Ceramic Society, 2002, 22, 903-916.	5.7	24
192	Mechanical properties of Nd2O3/Y2O3-coated zirconia ceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 374, 239-243.	5.6	24
193	Development of ZrO2â€“TiB2 composites: role of residual stress and starting powders. Journal of Alloys and Compounds, 2004, 365, 266-270.	5.5	24
194	Microwave sintering of CeO2 and Y2O3 co-stabilised ZrO2 from stabiliser-coated nanopowders. Journal of the European Ceramic Society, 2007, 27, 689-693.	5.7	24
195	Preparation and conductivity of Yb2O3â€“Y2O3 and Gd2O3â€“Y2O3 co-doped zirconia ceramics. Solid State Ionics, 2008, 179, 1531-1534.	2.7	24
196	Mechanical properties and microstructural characterizations of potassium doped tungsten. Nuclear Engineering and Design, 2012, 246, 198-202.	1.7	24
197	Influence of tip defect and indenter shape on the mechanical properties determination by indentation of a TiB2â€“60%B4C ceramic composite. International Journal of Refractory Metals and Hard Materials, 2013, 38, 102-110.	3.8	24
198	Structural and Chemical Analysis of the Zirconiaâ€“Veneering Ceramic Interface. Journal of Dental Research, 2016, 95, 102-109.	5.2	24

#	Article	IF	Citations
199	Controlled release of chlorhexidine from a mesoporous silica-containing macroporous titanium dental implant prevents microbial biofilm formation. , 2017, 33, 13-27.		24
200	Investigation on Hybrid Mechano-electrochemical Milling of Ti6Al4V. Procedia CIRP, 2018, 68, 156-161.	1.9	24
201	Selective Laser Melting process optimization of Tiâ€“Moâ€“TiC metal matrix composites. CIRP Annals - Manufacturing Technology, 2019, 68, 221-224.	3.6	24
202	Mechanical and electrical properties of selective laserâ€melted parts produced from surfaceâ€oxidized copper powder. Material Design and Processing Communications, 2020, 2, e94.	0.9	24
203	Compatibility of Zr2AlC MAX phase-based ceramics with oxygen-poor, static liquid leadâ€“bismuth eutectic. Corrosion Science, 2020, 171, 108704.	6.6	24
204	Toughening of X-sialon with Al2O3 platelets. Journal of the European Ceramic Society, 1995, 15, 297-305.	5.7	23
205	Transformation behavior of yttria stabilized tetragonal zirconia polycrystalâ€“TiB2 composites. Journal of Materials Research, 2001, 16, 2158-2169.	2.6	23
206	Resonant-based identification of the elastic properties of layered materials: Application to air-plasma sprayed thermal barrier coatings. NDT and E International, 2008, 41, 88-97.	3.7	23
207	Pulsed electric current sintered Fe3Al bonded WC composites. International Journal of Refractory Metals and Hard Materials, 2009, 27, 1019-1023.	3.8	23
208	Three-dimensional phase-field study of grain coarsening and grain shape accommodation in the final stage of liquid-phase sintering. Journal of the European Ceramic Society, 2017, 37, 2265-2275.	5.7	23
209	Reactive spark plasma sintering of Ti3SnC2, Zr3SnC2 and Hf3SnC2 using Fe, Co or Ni additives. Journal of the European Ceramic Society, 2017, 37, 4539-4545.	5.7	23
210	Chemical reactivity of silicon nitride with steel and oxidised steel between 500 and 1200Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 281, 28-36.	5.6	22
211	Yb2O3 and Y2O3 co-doped zirconia ceramics. Journal of the European Ceramic Society, 2006, 26, 3607-3612.	5.7	22
212	Porous Titanium Coatings Obtained by Electrophoretic Deposition (EPD) of Pickering Emulsions and Microwave Sintering. Advanced Engineering Materials, 2008, 10, 246-249.	3.5	22
213	Tailored sintering of VC-doped WCâ€“Co cemented carbides by pulsed electric current sintering. International Journal of Refractory Metals and Hard Materials, 2008, 26, 256-262.	3.8	22
214	A novel route to produce porous ceramics. Journal of the European Ceramic Society, 2009, 29, 833-836.	5.7	22
215	Manipulating microstructure and mechanical properties of CuO doped 3Y-TZP nano-ceramics using spark-plasma sintering. Journal of the European Ceramic Society, 2010, 30, 899-904.	5.7	22
216	Wear modes in open porosity titanium matrix composites with TiC addition processed by spark plasma sintering. Transactions of Nonferrous Metals Society of China, 2019, 29, 1653-1664.	4.2	22

#	Article	IF	Citations
217	Resonating Shell: A Spherical-Omnidirectional Ultrasound Transducer for Underwater Sensor Networks. Sensors, 2019, 19, 757.	3.8	22
218	Thermal expansion and damping characteristics of Y-TZP. Scripta Materialia, 1999, 40, 759-765.	5.2	21
219	Development and characterisation of SiAlON composites with TiB₂, TiN, TiC and TiCN. Journal of Materials Science, 2004, 39, 3375-3381.	3.7	21
220	Phase assembly and microstructure of CeO2-doped ZrO2 ceramics prepared by spark plasma sintering. Journal of the European Ceramic Society, 2005, 25, 3437-3442.	5.7	21
221	High-strength ZrB2-based ceramics prepared by reactive pulsed electric current sintering of ZrB2â€“ZrH2 powders. Journal of the European Ceramic Society, 2012, 32, 2537-2543.	5.7	21
222	Alignment of weakly magnetic metals during solidification in a strong magnetic field. Journal of Alloys and Compounds, 2013, 551, 568-577.	5.5	21
223	Reactive sintering of TiB2-SiC-CNT ceramics. Ceramics International, 2019, 45, 22769-22774.	4.8	21
224	Crack mitigation in Laser Powder Bed Fusion processed Hastelloy X using a combined numerical-experimental approach. Journal of Alloys and Compounds, 2021, 864, 158803.	5.5	21
225	Machining of steel with sialon ceramics: influence of ceramic and workpiece composition on tool wear. Wear, 1995, 189, 32-44.	3.1	20
226	Phase stability and mechanical properties of TZP with a low mixed Nd2O3/Y2O3 stabiliser content. Journal of the European Ceramic Society, 2006, 26, 1205-1211.	5.7	20
227	Synthesis of nano-crystalline apatite type electrolyte powders for solid oxide fuel cells. Journal of the European Ceramic Society, 2010, 30, 1699-1706.	5.7	20
228	Temperature and deformation effect on the low and high angle grain boundary structure of a double forged pure tungsten. International Journal of Refractory Metals and Hard Materials, 2015, 50, 184-190.	3.8	20
229	Rapid synthesis and elastic properties of fine-grained Ti2SnC produced by spark plasma sintering. Journal of Alloys and Compounds, 2015, 631, 72-76.	5.5	20
230	Influence of Mo addition on the microstructure and mechanical properties of TiC-NiTi cermets. Journal of Alloys and Compounds, 2017, 712, 579-587.	5.5	20
231	Thick Plate-Shaped Al₂O₃/ZrO₂ Composites with Continuous Gradient Processed by Electrophoretic Deposition. Materials Science Forum, 2003, 423-425, 171-176.	0.3	19
232	Experimental investigation and thermodynamic assessment of the Vâ€“Wâ€“C system. Journal of Alloys and Compounds, 2005, 395, 68-74.	5.5	19
233	Phase instability in ZrO2â€“TiB2 composites. Journal of the European Ceramic Society, 2007, 27, 2203-2208.	5.7	19
234	Pulsed electric current sintering of electrically conductive ceramics. Journal of Materials Science, 2008, 43, 6435-6440.	3.7	19

#	Article	IF	Citations
235	Preparation of Titanium Foams by Slip Casting of Particle Stabilized Emulsions. Advanced Engineering Materials, 2009, 11, 633-636.	3.5	19
236	Electrical discharge machining of ZrO2 toughened WC composites. Materials Chemistry and Physics, 2010, 123, 114-120.	4.0	19
237	Wettability Assessment of Submicrometer Alumina Powder Using a Modified Washburn Method. Journal of the American Ceramic Society, 2010, 93, 2515-2518.	3.8	19
238	Slip Casting of Alumina Suspensions in a Strong Magnetic Field. Journal of the American Ceramic Society, 2010, 93, 3148-3152.	3.8	19
239	Powder synthesis, processing and characterization of lanthanum silicates for SOFC application. Journal of Alloys and Compounds, 2010, 495, 552-555.	5.5	19
240	Modeling of Nucleation and Growth of M23C6 Carbide in Multi-component Fe-based Alloy. Journal of Materials Science and Technology, 2011, 27, 725-728.	10.7	19
241	Effect of Ni addition on the contact resistance of Ag-WC electrical contacts. Journal of Alloys and Compounds, 2016, 670, 188-197.	5.5	19
242	Doping of Cu2ZnSnSe4 solar cells with Na+ or K+ alkali ions. Journal of Materials Chemistry A, 2018, 6, 2653-2663.	10.3	19
243	Preparation and properties ofX-sialon. Journal of Materials Science, 1995, 30, 4584-4590.	3.7	18
244	Die sink electrodischarge machining of zirconia based composites. Advances in Applied Ceramics, 2001, 100, 207-213.	0.4	18
245	Thermodynamic assessment of the Coâ€“V and Coâ€“Vâ€“C system. Journal of Alloys and Compounds, 2004, 385, 114-118.	5.5	18
246	Optimization of microstructure and properties of in situ formed Î²-O-sialonâ€“TiN composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 427, 195-202.	5.6	18
247	Fabrication of textured alumina by orienting template particles during electrophoretic deposition. Journal of the European Ceramic Society, 2010, 30, 1195-1202.	5.7	18
248	Controlled release of chlorhexidine antiseptic from microporous amorphous silica applied in open porosity of an implant surface. International Journal of Pharmaceutics, 2011, 419, 28-32.	5.2	18
249	Processing of non-ferromagnetic materials in strong static magnetic field. Current Opinion in Solid State and Materials Science, 2013, 17, 193-201.	11.5	18
250	Bacterial colonisation of porous titanium coatings for orthopaedic implant applications â€“ effect of surface roughness and porosity. Powder Metallurgy, 2013, 56, 267-271.	1.7	18
251	Rapid synthesis of dense NiTi alloy through spark plasma sintering of a TiH2/Ni powder mixture. Materials Letters, 2017, 191, 89-92.	2.6	18
252	Nanolaminated ternary carbide (MAX phase) materials for high temperature applications. International Journal of Refractory Metals and Hard Materials, 2018, 72, 51-55.	3.8	18

#	Article	IF	Citations
253	Compatibility of SiC--and MAX phase-based ceramics with a KNO3-NaNO3 molten solar salt. Solar Energy Materials and Solar Cells, 2019, 195, 228-240.	6.2	18
254	Liquid phase assisted synthesis of (Ti,V,Nb,Ta,W)C-Ni high entropy carbide cermets by conventional pressureless sintering. International Journal of Refractory Metals and Hard Materials, 2022, 107, 105914.	3.8	18
255	Thermal stability of in situ formed Si3N4â€“Si2N2Oâ€“TiN composites. Journal of the European Ceramic Society, 2002, 22, 2527-2535.	5.7	17
256	Electrically Conductive and Wear Resistant Si₃N₄-Based Composites with TiC_{0.5}N_{0.5} Particles for Electrical Discharge Machining. Materials Science Forum, 2005, 492-493, 27-32.	0.3	17
257	Influence of electrical discharge machining on tribological behavior of ZrO2â€“TiN composites. Wear, 2008, 265, 1884-1892.	3.1	17
258	EDM machinability and dry sliding friction of WC-Co cemented carbides. International Journal of Manufacturing Research, 2009, 4, 375.	0.2	17
259	Reciprocating sliding friction and wear behavior of electrical discharge machined zirconia-based composites against WCâ€“Co cemented carbide. International Journal of Refractory Metals and Hard Materials, 2009, 27, 449-457.	3.8	17
260	Grain-Boundary Engineering for Aging and Slow-Crack-Growth Resistant Zirconia. Journal of Dental Research, 2017, 96, 774-779.	5.2	17
261	Three-dimensional phase-field simulation of microstructural evolution in three-phase materials with different interfacial energies and different diffusivities. Journal of Materials Science, 2017, 52, 13852-13867.	3.7	17
262	Wetting and solidification of silver alloys in the presence of tungsten carbide. Acta Materialia, 2018, 144, 459-469.	7.9	17
263	In situ alloying and reinforcing of Al6061 during selective laser melting. Procedia CIRP, 2018, 74, 39-43.	1.9	17
264	Ultrashort pulsed laser ablation of zirconia-alumina composites for implant applications. Journal of Materials Processing Technology, 2022, 299, 117335.	6.3	17
265	Influence of Light Irradiation Through Zirconia on the Degree of Conversion of Composite Cements. Journal of Adhesive Dentistry, 2016, 18, 161-71.	0.5	17
266	Cylindrical Al2O3/TZP functionally graded materials by EPD. Advances in Applied Ceramics, 2000, 99, 284-287.	0.4	16
267	Functionally Graded ZrO₂-WC Composites Processed by Electrophoretic Deposition. Key Engineering Materials, 2001, 206-213, 189-192.	0.4	16
268	Effect of Porosity on Thermal Conductivity of Al?Si?Fe?X Alloy Powder Compacts. International Journal of Thermophysics, 2004, 25, 1611-1622.	2.1	16
269	Strength and residual stresses of functionally graded Al2O3/ZrO2 discs prepared by electrophoretic deposition. Scripta Materialia, 2006, 54, 2053-2056.	5.2	16
270	Design of TRIP Steel With High Welding and Galvanizing Performance in Light of Thermodynamics and Kinetics. Journal of Iron and Steel Research International, 2007, 14, 37-41.	2.8	16

#	Article	IF	Citations
271	Influence of CeO2Reduction on the Microstructure and Mechanical Properties of Pulsed Electric Current Sintered Y2O3?CeO2Co-Stabilized ZrO2Ceramics. Journal of the American Ceramic Society, 2007, 90, 1420-1426.	3.8	16
272	NUMERICAL CALCULATIONS ON INCLUSION REMOVAL FROM LIQUID METALS UNDER STRONG MAGNETIC FIELDS. Progress in Electromagnetics Research, 2009, 98, 359-373.	4.4	16
273	High temperature properties of ZnO ceramics studied by the impulse excitation technique. Journal of the European Ceramic Society, 2009, 29, 2991-2998.	5.7	16
274	Influence of electrical discharge machining on sliding friction and wear of WCâ€“Ni cemented carbide. Tribology International, 2010, 43, 2333-2344.	5.9	16
275	Unlubricated tribological performance of advanced ceramics and composites at fretting contacts with alumina. Journal of Materials Research, 2003, 18, 1314-1324.	2.6	15
276	Effect of Powder Coating on Stabilizer Distribution in CeO2-Stabilized ZrO2 Ceramics. Journal of the American Ceramic Society, 2005, 88, 1929-1934.	3.8	15
277	Chemical reactivity of PVD-coated WCâ€“Co tools with steel. Applied Surface Science, 2007, 253, 3547-3556.	6.1	15
278	Characterization of (Nd,Y)-TZP ceramics prepared by a colloidal suspension coating technique. Journal of the European Ceramic Society, 2007, 27, 1339-1343.	5.7	15
279	The effect of precipitation and calcination parameters on oxalate derived ThO 2 pellets. Journal of Nuclear Materials, 2017, 495, 128-137.	2.7	15
280	Microstructural investigation and machining performance of NbC-Ti(C0.5N0.5) matrix cermets. International Journal of Refractory Metals and Hard Materials, 2019, 84, 105038.	3.8	15
281	In-situ measurements of high-temperature dielectric properties of municipal solid waste incinerator bottom ash. Ceramics International, 2019, 45, 18751-18759.	4.8	15
282	A new approach for the vitrification of municipal solid waste incinerator bottom ash by microwave irradiation. Journal of Cleaner Production, 2021, 284, 124787.	9.3	15
283	Development, characterization and oxidation behaviour of Si3N4î—¸Al2O3 ceramics. Journal of the European Ceramic Society, 1994, 13, 529-544.	5.7	14
284	Design and Fabrication of Symmetric FGM Plates. Materials Science Forum, 2003, 423-425, 23-28.	0.3	14
285	Biofunctionalization of porous titanium coatings through solâ€“gel impregnation with a bioactive glassâ€“ceramic. Materials Science and Engineering C, 2012, 32, 2292-2298.	7.3	14
286	Influence of wire-EDM on high temperature sliding wear behavior of WC10Co(Cr/V) cemented carbide. International Journal of Refractory Metals and Hard Materials, 2013, 41, 198-209.	3.8	14
287	Experimental study and simulation of plastic deformation of zirconia-based ceramics in a pulsed electric current apparatus. Acta Materialia, 2013, 61, 2376-2389.	7.9	14
288	Additive Manufacturing of Metals via Selective Laser Melting: Process Aspects and Material Developments. , 2015, , 69-99.		14

#	Article	IF	Citations
289	Surface integrity of rotary ultrasonic machined ZrO2â€“TiN and Al2O3â€“TiCâ€“SiC ceramics. Journal of the European Ceramic Society, 2015, 35, 3927-3941.	5.7	14
290	Activated sintering of ThO 2 with Al 2 O 3 under reducing and oxidizing conditions. Journal of Nuclear Materials, 2016, 470, 34-43.	2.7	14
291	Influence of zirconium addition on the microstructure, thermodynamic stability, thermal stability and mechanical properties of mechanical alloyed spark plasma sintered (MA-SPS) FeCoCrNi high entropy alloy. Powder Metallurgy, 2018, 61, 405-416.	1.7	14
292	Effect of Carbon Content on the Microstructure and Mechanical Properties of NbC-Ni Based Cermets. Metals, 2018, 8, 178.	2.3	14
293	Toughening of sol-gel derived mullite matrix by Al2O3 platelets. Journal of Materials Science Letters, 1994, 13, 1089-1091.	0.5	13
294	Processing of hardmetal coatings on steel substrates. Scripta Materialia, 2003, 48, 1361-1366.	5.2	13
295	TiO2 additives for in situ formation of toughened silicon nitride-based composites. Materials Letters, 2003, 57, 4156-4161.	2.6	13
296	Sliding Wear of Electrically Conductive ZrO2â^'WC Composites Against WCâ€“Co Cemented Carbide. Tribology Letters, 2008, 30, 191-198.	2.6	13
297	MAGNETIC INTERACTION BETWEEN TWO NON-MAGNETIC PARTICLES MIGRATING IN A CONDUCTIVE FLUID INDUCED BY A STRONG MAGNETIC FIELD-AN ANALYTICAL APPROACH. Progress in Electromagnetics Research, 2010, 103, 1-16.	4.4	13
298	<sup />Harnessing the Osteogenicity of In Vitro Stem Cell-Derived Mineralized Extracellular Matrix as 3D Biotemplate to Guide Bone Regeneration. Tissue Engineering - Part A, 2017, 23, 874-890.	3.1	13
299	Iron oxide colouring of highly-translucent 3Y-TZP ceramics for dental restorations. Journal of the European Ceramic Society, 2019, 39, 499-507.	5.7	13
300	Ketone-amine based suspensions for electrophoretic deposition of Al2O3 and ZrO2. Journal of the European Ceramic Society, 2006, 26, 3531-3537.	5.7	12
301	Computer simulating the diffusion behavior of V and W in Co binder layer of WCâ€“Co cemented carbide. Journal of Alloys and Compounds, 2007, 436, 146-149.	5.5	12
302	VC-doped WCâ€“NbCâ€“Co hardmetals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 488, 420-427.	5.6	12
303	Strong magnetic field effects on solidâ€“liquid and particleâ€–particle interactions during the processing of a conducting liquid containing non-conducting particles. Journal of Colloid and Interface Science, 2012, 375, 203-212.	9.4	12
304	The Use of Spark Plasma Sintering to Fabricate a Two-phase Material from Blended Aluminium Alloy Scrap and Gas Atomized Powder. Procedia CIRP, 2015, 26, 455-460.	1.9	12
305	Densification and tribological profile of niobium oxide. Wear, 2016, 352-353, 65-71.	3.1	12
306	Stainless steel bonded NbC matrix cermets using a submicron NbC starting powder. International Journal of Refractory Metals and Hard Materials, 2017, 63, 26-31.	3.8	12

#	Article	IF	Citations
307	Porous glass-ceramics made from microwave vitrified municipal solid waste incinerator bottom ash. Construction and Building Materials, 2021, 270, 121452.	7.2	12
308	Yâ€“TZP/Ceâ€“TZP Functionally Graded Composite. Journal of Materials Science Letters, 1998, 17, 1453-1455.	0.5	11
309	Graded Tribological Materials Formed by Electrophoresis. Materials Science Forum, 1999, 308-311, 95-100.	0.3	11
310	High toughness Ce-TZP by sintering in an inert atmosphere. Scripta Materialia, 2000, 43, 1015-1020.	5.2	11
311	Y-TZP Ceramics with Tailored Toughness. Key Engineering Materials, 2002, 206-213, 1185-1188.	0.4	11
312	Perspectives on the Development of Ceramic Composites for Cutting Tool Applications. Key Engineering Materials, 2001, 206-213, 955-960.	0.4	11
313	Processing of a Graded Ceramic Cutting Tool in the Al₂O₃-ZrO₂-Ti(C,N) System by Electrophoretic Deposition. Materials Science Forum, 2005, 492-493, 705-710.	0.3	11
314	Influence of Surface Finishing and Binder Phase on Friction and Wear of WC Based Hardmetals. Materials Science Forum, 2007, 561-565, 2403-2406.	0.3	11
315	Production and characterization of ZrO2 ceramics and composites to be used for hip prosthesis. Journal of Materials Science, 2008, 43, 1599-1611.	3.7	11
316	Reciprocative sliding wear of ZrO2â€“TiCN composites against WC-Co cemented carbide. Wear, 2008, 265, 1767-1775.	3.1	11
317	Induced migration of non-magnetic particles and fabrication of metallic-based graded materials by applying a strong magnetic field. Journal of Applied Physics, 2011, 109, 084917.	2.5	11
318	Three-dimensional phase-field simulation of microstructural evolution in three-phase materials with different diffusivities. Journal of Materials Science, 2014, 49, 7066-7072.	3.7	11
319	Alternating Current Electrophoretic Deposition of Bovine Serum Albumin onto Magnesium. Key Engineering Materials, 2015, 654, 139-143.	0.4	11
320	Selenization of printed Cuâ€“Inâ€“Se alloy nanopowder layers for fabrication of CuInSe2 thin film solar cells. Thin Solid Films, 2015, 582, 18-22.	1.8	11
321	An antibiofilm coating of 5â€arylâ€2â€aminoimidazole covalently attached to a titanium surface. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1908-1919.	3.4	11
322	Microstructure and mechanical properties of WC or Mo2C modified NbC-Ni cermets. International Journal of Refractory Metals and Hard Materials, 2021, 95, 105440.	3.8	11
323	Toughness enhancement of Ce-TZP by annealing in argon. Scripta Materialia, 2004, 50, 679-683.	5.2	10
324	Advanced symmetrically graded ceramic and ceramic-metal composites. Journal of Materials Science, 2004, 39, 881-888.	3.7	10

#	Article	IF	Citations
325	Influence of ammonium salt of poly-methacrylic acid and butylamine addition on the viscosity and electrophoretic deposition behavior of ethanol-based powder suspensions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 267, 74-78.	4.7	10
326	Y2O3 and Nd2O3 co-stabilized ZrO2-WC composites. Journal of Materials Science, 2008, 43, 5784-5789.	3.7	10
327	Thermodynamic re-assessment of the Fe-Al-C system based on the Fe-rich experimental data. Frontiers of Materials Science in China, 2009, 3, 33-37.	0.5	10
328	Non-magnetic anisotropic-materials preparation by a strong magnetic field during the solidification of a hypereutectic Al-Cu alloy. Europhysics Letters, 2010, 89, 64002.	2.0	10
329	Hydrothermal stability of mixed stabilised tetragonal (Y, Nd)-ZrO2 ceramics. Journal of Alloys and Compounds, 2010, 495, 556-560.	5.5	10
330	Magnetic field oriented tetragonal zirconia with anisotropic toughness. Journal of the European Ceramic Society, 2011, 31, 1405-1412.	5.7	10
331	Recombination stability in polycrystalline Cu<inf>2</inf>ZnSnSe<inf>4</inf> thin films. , 2013, , .		10
332	Mechanical synthesis of high purity Cuâ€“Inâ€“Se alloy nanopowder as precursor for printed CISe thin film solar cells. Advanced Powder Technology, 2014, 25, 1254-1261.	4.1	10
333	Friction and wear response of pulsed electric current sintered TiB2â€“B4C ceramic composite. Wear, 2014, 317, 104-110.	3.1	10
334	Sintering in a graphite powder bed of alumina-toughened zirconia/carbon nanotube composites: a novel way to delay hydrothermal degradation. Ceramics International, 2015, 41, 4569-4580.	4.8	10
335	Texturing of 3Y-TZP zirconia by slip casting in a high magnetic field of 17.4T. Journal of the European Ceramic Society, 2015, 35, 3959-3967.	5.7	10
336	Experimental investigation of the process behaviour in Mechano-Electrochemical Milling. CIRP Annals - Manufacturing Technology, 2018, 67, 217-220.	3.6	10
337	Niobium carbide for machining and wear protection â€“ Evolution of properties. Metal Powder Report, 2019, 74, 82-89.	0.1	10
338	Microstructure and mechanical properties of B4C-NbB2-SiC ternary eutectic composites by a crucible-free zone melting method. Journal of the European Ceramic Society, 2021, 41, 1189-1196.	5.7	10
339	Deposition of MAX phase-containing thin films from a (Ti,Zr)2AlC compound target. Applied Surface Science, 2021, 551, 149370.	6.1	10
340	Chemically complex double solid solution MAX phase-based ceramics in the (Ti,Zr,Hf,V,Nb)-(Al,Sn)-C system. Materials Research Letters, 2022, 10, 52-61.	8.7	10
341	Chemical Interaction between SiAlON Ceramics and Iron-Based Alloys. Key Engineering Materials, 1998, 138-140, 127-176.	0.4	9
342	Microstructure and mechanical properties of ZrO2-TiB2composites. Journal of Materials Science, 2004, 39, 6389-6392.	3.7	9

#	Article	IF	Citations
343	Neutron diffraction study of the phase-specific stresses in graded alumina/zirconia ceramics. Physica B: Condensed Matter, 2004, 350, E517-E520.	2.7	9
344	Electrophoretic Deposition as a Novel Near Net Shaping Technique for Functionally Graded Biomaterials. Materials Science Forum, 2005, 492-493, 213-218.	0.3	9
345	Influence of Electrostatic Interactions in the Deposit on the Electrical Field Strength during Electrophoretic Deposition. Key Engineering Materials, 2006, 314, 181-186.	0.4	9
346	Throwing Power during Electrophoretic Deposition. Key Engineering Materials, 2006, 314, 187-194.	0.4	9
347	Laminated and Functionally Graded Ceramics by Electrophoretic Deposition. Key Engineering Materials, 2007, 333, 49-58.	0.4	9
348	Reciprocating Friction and Wear Behavior of WC-Co Based Cemented Carbides Manufactured by Electro-Discharge Machining. Materials Science Forum, 0, 561-565, 2025-2028.	0.3	9
349	Influence of short chain organic acids and bases on the wetting properties and surface energy of submicrometer ceramic powders. Journal of Colloid and Interface Science, 2010, 348, 654-660.	9.4	9
350	Effect of Binder Content in Cuâ€“Inâ€“Se Precursor Ink on the Physical and Electrical Properties of Printed CuInSe₂ Solar Cells. Journal of Physical Chemistry C, 2014, 118, 27201-27209.	3.1	9
351	Solid State Recycling of Aluminium Sheet Scrap by Means of Spark Plasma Sintering. Key Engineering Materials, 0, 639, 493-498.	0.4	9
352	Effect of selenium content of CuInSex alloy nanopowder precursors on recrystallization of printed CuInSe2 absorber layers during selenization heat treatment. Thin Solid Films, 2015, 582, 11-17.	1.8	9
353	Pressureless liquid-phase sintered TiC x -NiTi/Ni cermets. Ceramics International, 2017, 43, 9512-9521.	4.8	9
354	Fretting fatigue wear behavior of Yâ€<scp>TZP</scp> dental ceramics processed by nonâ€conventional microwave sintering. Journal of the American Ceramic Society, 2017, 100, 1842-1852.	3.8	9
355	Influence of annealing on crucible-free float zone melted LaB6-TiB2 composites. Journal of Alloys and Compounds, 2017, 729, 749-757.	5.5	9
356	Reliability of an injection-moulded two-piece zirconia implant with PEKK abutment after long-term thermo-mechanical loading. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103967.	3.1	9
357	In situ He+ irradiation of the double solid solution (Ti0.5,Zr0.5)2(Al0.5,Sn0.5)C MAX phase: Defect evolution in the 350â€“800 Â°C temperature range. Acta Materialia, 2021, 206, 116606.	7.9	9
358	Single-point scratch testing for understanding particle engagement in abrasion of multiphase materials. Wear, 2021, 476, 203689.	3.1	9
359	Implant functionalization with mesoporous silica: A promising antibacterial strategy, but does such an implant osseointegrate?. Clinical and Experimental Dental Research, 2021, 7, 502-511.	1.9	9
360	Microstructure and mechanical properties of (Nb,W,Ti)(C,N)-Ni solid solution cermets with 6 to 20Âwt% Ni. International Journal of Refractory Metals and Hard Materials, 2022, 103, 105757.	3.8	9

#	Article	IF	Citations
361	Fabrication and characterization of (Nd,Y)-TZP ceramics from stabilizer-coated nanopowder. Materials Letters, 2004, 58, 3353-3357.	2.6	8
362	Fabrication, Wear and Performance of Ceramic Cutting Tools. Advances in Science and Technology, 2006, 45, 1776-1785.	0.2	8
363	Recent Advances in Material Characterization Using the Impulse Excitation Technique (IET). Key Engineering Materials, 2007, 333, 235-238.	0.4	8
364	Aqueous Electrophoretic Deposition at High Electric Fields. Key Engineering Materials, 0, 412, 33-38.	0.4	8
365	STRONG MAGNETIC FIELD INDUCED SEGREGATION AND SELF-ASSEMBLY OF MICROMETER SIZED NON-MAGNETIC PARTICLES. Progress in Electromagnetics Research B, 2010, 23, 199-214.	1.0	8
366	Strong magnetic field-induced segregation and alignment of nonmagnetic particles. Journal of Applied Physics, 2011, 109, .	2.5	8
367	Polystyreneâ€coated alumina powder via dispersion polymerization for indirect selective laser sintering applications. Journal of Applied Polymer Science, 2013, 128, 2121-2128.	2.6	8
368	Effect of pressure loading cycle on spark plasma sintered ZrB2â€“SiCâ€“Yb2O3 ceramics. Ceramics International, 2012, 38, 5293-5297.	4.8	8
369	Hydrothermally synthesized BaTiO3 textured in a strong magnetic field. Ceramics International, 2015, 41, 5397-5402.	4.8	8
370	Effect of Cu content and temperature on the properties of Cu₂ZnSnSe₄solar cells. EPJ Photovoltaics, 2016, 7, 70304.	1.6	8
371	Catalytic activation of all-silica COK-14 zeolite through alumination and particle size reduction using wet ball milling. Catalysis Today, 2019, 334, 3-12.	4.4	8
372	Thermodynamic description and phase selection for the Moâ€“Tiâ€“Zr biomedical alloys. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 70, 101799.	1.6	8
373	MAX Phases, Structure, Processing, and Properties. , 2021, , 182-199.		8
374	Spark plasma sintered step graded Al2O3â€“NbC composites. Ceramics International, 2021, 47, 19481-19488.	4.8	8
375	Ultrafast laser selective phase removal for surface modification of nanocomposite materials. Optics Express, 2021, 29, 24834.	3.4	8
376	ZrO₂-Tix Composites. Key Engineering Materials, 1997, 132-136, 2064-2067.	0.4	7
377	Influence of Mechanical Pressure and Temperature on the Chemical Interaction Between Steel and Silicon Nitride Ceramics. Journal of Materials Research, 2000, 15, 1367-1376.	2.6	7
378	Toughness Optimisation of ZrO₂-TiB₂ Composites. Key Engineering Materials, 2002, 206-213, 1177-1180.	0.4	7

#	Article	IF	Citations
379	Functionally Graded Hardmetals with a Continuously Graded Symmetrical Profile. Materials Science Forum, 2003, 423-425, 33-38.	0.3	7
380	Experimental Investigation and Thermodynamic Assessment of the Nd2O3â€“Y2O3 System. Journal of the American Ceramic Society, 2006, 89, 2596-2601.	3.8	7
381	Influence of secondary phases on the tribological response of electro-discharge machined zirconia-based composites against WCâ€“Co cemented carbide. Wear, 2009, 267, 2157-2166.	3.1	7
382	Sintering, thermal stability and mechanical properties of ZrO2-WC composites obtained by pulsed electric current sintering. Frontiers of Materials Science, 2011, 5, 50-56.	2.2	7
383	Ti Coatings with Macropores for Improved Implant Fixation Obtained by Electrophoretic Deposition of TiH₂ Stabilized Emulsions. Advanced Engineering Materials, 2012, 14, 371-376.	3.5	7
384	Production of intense mass separated 11C beams for PET-aided hadron therapy. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 403-407.	1.4	7
385	Alumina toughened zirconia reinforced with equiaxed and elongated lanthanum hexa-aluminate precipitates. Journal of the European Ceramic Society, 2021, 41, 247-255.	5.7	7
386	Effect of secondary phase on sialon-steel chemical interaction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 183, L19-L21.	5.6	6
387	Microstructural Differences in Silicon Nitrides with and without a Small Amount of TiN Additive. Key Engineering Materials, 2002, 206-213, 1181-1184.	0.4	6
388	Field Assisted Sintering Consolidation of Al-Si-Fe-X Alloy Powder/Flakes Produced through Air Atomization/Melt Spinning. Materials Science Forum, 2006, 519-521, 1409-1414.	0.3	6
389	Y2O3â€“Nd2O3 double stabilized ZrO2â€“TiCN nanocomposites. Materials Chemistry and Physics, 2009, 113, 596-601.	4.0	6
390	Electrical discharge machining of composites. , 2012, , 202-241.		6
391	Electrical Discharge Machining of (NbxZr1-x)B2-SiC Composites. Procedia CIRP, 2013, 6, 186-191.	1.9	6
392	Influence of HfH2 addition on the microstructure and mechanical properties of TiC-NiTi cermets. Materials and Design, 2017, 133, 30-38.	7.0	6
393	Additive manufacturing of a novel alpha titanium alloy from commercially pure titanium with minor addition of Mo2C. Materialia, 2018, 4, 227-236.	2.7	6
394	Microstructure and Mechanical Properties of Nanostructured CoCrFeMoTi High-Entropy Alloy Fabricated by Mechanical Alloying and Spark Plasma Sintering. Journal of Materials Engineering and Performance, 2019, 28, 7710-7725.	2.5	6
395	Microstructure and mechanical properties of WC and Ti(C0.7N0.3) modified NbC solid solution cermets. Journal of Alloys and Compounds, 2021, 850, 156594.	5.5	6
396	Laser powder bed fusion as a net-shaping method for reaction bonded SiC and B₄C. Virtual and Physical Prototyping, 2022, 17, 854-863.	10.4	6

#	Article	IF	Citations
397	Fretting Wear of Self-Mated Tetragonal Zirconia Ceramics in Different Humidity. Key Engineering Materials, 2001, 206-213, 783-786.	0.4	5
398	Computer simulation of W-C-Co-V system diffusion couples. Rare Metals, 2007, 26, 492-497.	7.1	5
399	Electrophoretic Deposition of Liquid Templates. Key Engineering Materials, 2009, 412, 299-305.	0.4	5
400	Impact of Wire-EDM on Tribological Characteristics of ZrO2-based Composites in Dry Sliding Contact with WCâ€“Co-Cemented Carbide. Tribology Letters, 2011, 43, 1-15.	2.6	5
401	Apatite type lanthanum silicate and composite anode half cells. Solid State Ionics, 2011, 192, 419-423.	2.7	5
402	Diamond dispersed Si3N4 composites obtained by pulsed electric current sintering. Journal of the European Ceramic Society, 2013, 33, 1237-1247.	5.7	5
403	Densification and Geometrical Assessments of Alumina Parts Produced Through Indirect Selective Laser Sintering of Alumina-Polystyrene Composite Powder. Strojniski Vestnik/Journal of Mechanical Engineering, 2013, 59, .	1.1	5
404	Influence of ZrH2 addition on pulsed electric current sintered ZrB2â€“SiC composites. Scripta Materialia, 2014, 77, 41-44.	5.2	5
405	Influence of TiH 2 addition on the microstructure and mechanical properties of spark plasma sintered TiC x -NiTi/Ni 3 Ti cermets. International Journal of Refractory Metals and Hard Materials, 2016, 61, 46-50.	3.8	5
406	Single-Element Omnidirectional Piezoelectric Ultrasound Transducer for under Water Communication. Proceedings (mdpi), 2017, 1, .	0.2	5
407	Mechanical properties of replicated cellular Zn and Zn1.5Mg in uniaxial compression. Materials Characterization, 2019, 157, 109895.	4.4	5
408	Slow crack growth resistance of electrically conductive zirconia-based composites with non-oxide reinforcements. Journal of the European Ceramic Society, 2019, 39, 641-646.	5.7	5
409	Morphology dependent sintering path of nanocrystalline ThO2. Journal of Nuclear Materials, 2020, 533, 152081.	2.7	5
410	Engineering the Toughness of CeO₂-Stabilised ZrO₂. Key Engineering Materials, 2001, 206-213, 273-276.	0.4	4
411	Microstructure and Mechanical Properties of Spark Plasma Sintered ZrO₂-Al₂O₃-TiC_{0.5}N_{0.5} Nanocomposites. Solid State Phenomena, 2005, 106, 153-160.	0.4	4
412	Laminated and Functionally Graded Ceramics by Electrophoretic Deposition. Advances in Science and Technology, 2006, 45, 1075.	0.2	4
413	The Evolution of the Electrical Field Drop over the Suspension during EPD. Key Engineering Materials, 2006, 314, 13-18.	0.4	4
414	Formation of a Metastable Celsian-Cordierite Eutectic Structure During the Crystallization of a Ba-Osumilite Glass?Ceramic. Journal of the American Ceramic Society, 2007, 90, 590-597.	3.8	4

#	Article	IF	Citations
415	EDM machinability and frictional behaviour of ZrO<SUB align=right>2-TiCN composites. International Journal of Machining and Machinability of Materials, 2008, 3, 226.	0.1	4
416	Electrophoretic deposition of apatite type lanthanum silicates for SOFC half cell production. Advances in Applied Ceramics, 2012, 111, 459-465.	1.1	4
417	Texturing of 3Y-TZP zirconia by electrophoretic deposition in a high magnetic field of 17.4T. Journal of the European Ceramic Society, 2014, 34, 3879-3885.	5.7	4
418	Effect of the burn-out step on the microstructure of the solution-processed Cu(In,Ga)Se2 solar cells. Thin Solid Films, 2015, 583, 142-150.	1.8	4
419	Effect of the duration of a wet KCN etching step and post deposition annealing on the efficiency of Cu 2 ZnSnSe 4 solar cells. Thin Solid Films, 2017, 633, 166-171.	1.8	4
420	Homogeneous hydrolysis of thorium by thermal decomposition of urea. Radiochimica Acta, 2018, 106, 645-653.	1.2	4
421	A comparative study of spark plasma sintered TiC x -Ni 3 Ti/Ni cermets. International Journal of Refractory Metals and Hard Materials, 2018, 72, 110-116.	3.8	4
422	Influence of relative humidity and low temperature hydrothermal degradation on fretting wear of Y-TZP dental ceramics. Wear, 2019, 428-429, 1-9.	3.1	4
423	Strengthened interfacial bonding and its effects on fracture mode of TaC ceramics with addition of B. Journal of the European Ceramic Society, 2020, 40, 1067-1077.	5.7	4
424	Thermal dependent properties of LaB6â€“MeB2 eutectic composites. Ceramics International, 2021, 47, 17667-17677.	4.8	4
425	A porous hexagonal boron nitride powder compact for the production and release of radioactive 11C. Journal of the European Ceramic Society, 2021, 41, 4086-4097.	5.7	4
426	Infiltration of porous uranium oxide microspheres prepared by internal gelation. Journal of Nuclear Materials, 2022, 562, 153587.	2.7	4
427	Influence of Al₂O₃ Addition on the Microstructure and Mechanical Properties of Pressureless Sintered Ce-TZP. Materials Science Forum, 2005, 492-493, 783-0.	0.3	3
428	Stress Relaxation on Polished Cross-Sections of Al₂O₃/ZrO₂ FGM Discs Measured by Raman Spectroscopy. Materials Science Forum, 2005, 492-493, 641-646.	0.3	3
429	Neutron Diffraction Studies of Functionally Graded Alumina/Zirconia Ceramics. Materials Science Forum, 2005, 492-493, 201-206.	0.3	3
430	Computer-aided designing and manufacturing of advanced steels. Rare Metals, 2006, 25, 407-411.	7.1	3
431	Characterization of Y₂O₃, CeO₂ and Y₂O₃+CeO₂ Doped FGM Tetragonal ZrO₂ Ceramics by Spark Plasma Sintering. Key Engineering Materials, 2007, 333, 231-234.	0.4	3
432	Edge Effects in Sliding Wear Behavior of ZrO₂-WC Composites and WC-Co Cemented Carbides. Materials Science Forum, 2007, 561-565, 503-506.	0.3	3

#	Article	IF	Citations
433	Modified Titanium Surface-Mediated Effects on Human Bone Marrow Stromal Cell Response. Materials, 2013, 6, 5533-5548.	2.9	3
434	3D Phase-Field Simulation and Characterization of Microstructure Evolution during Liquid Phase Sintering. Advances in Science and Technology, 0, , .	0.2	3
435	Solid state sintering behavior of zirconia-nickel composites. Ceramics International, 2019, 45, 22120-22130.	4.8	3
436	Studies on the Thoria Fuel Recycling Loop Using Triflic Acid: Effects of Powder Characteristics, Solution Acidity, and Radium Behavior. Journal of Sustainable Metallurgy, 2019, 5, 118-126.	2.3	3
437	Porous TaCx ISOL target materials from mould-casted Ta4AlC3. Journal of the European Ceramic Society, 2021, 41, 3947-3959.	5.7	3
438	Electrophoretic Deposition of Particle-Stabilized Emulsions. , 0, , 13-26.		3
439	Reciprocating Friction and Wear Behavior of WC-Co Based Cemented Carbides Manufactured by Electro-Discharge Machining. Materials Science Forum, 0, , 2025-2028.	0.3	3
440	Heating Effects in WC-Co Cemented Carbides as a Result of Reciprocative Dry Sliding Friction. Materials Science Forum, 0, , 2197-2200.	0.3	3
441	Electrophoretic Deposition as a Novel Near Net Shaping Technique for Functionally Graded Biomaterials. Materials Science Forum, 0, , 213-218.	0.3	3
442	Micro-Raman Spectroscopy for Phase Identification and Stress Measurement in Advanced Ceramics. NATO Advanced Study Institutes Series Series E, Applied Sciences, 1994, , 385-397.	0.2	3
443	Investigation of working gap phenomena in Mechano-Electrochemical Milling. Procedia CIRP, 2020, 95, 672-677.	1.9	3
444	Internal Friction Characteristics of Y-TZP: Indications for Phase Transformability and Structural Integrity. Key Engineering Materials, 2001, 206-213, 787-790.	0.4	2
445	Thermodynamics and Microstructure of Co-V₈C₇ Alloy. Materials Science Forum, 2005, 492-493, 523-530.	0.3	2
446	Functionally graded ceramics. , 2006, , 575-596.		2
447	ZrO₂-TiN Composites. Materials Science Forum, 2007, 554, 135-140.	0.3	2
448	In situ investigation of dewaxing and sintering of stainless steel powder compacts by impulse excitation. Scripta Materialia, 2008, 58, 985-988.	5.2	2
449	Neutron Diffraction Studies of Residual Stresses in Functionally Graded Alumina/Zirconia Ceramics. Materials Science Forum, 0, 571-572, 309-314.	0.3	2
450	Reciprocative sliding friction and wear properties of electrical discharge machined ZrO‹sub›2‹/sub›â€based composites. Lubrication Science, 2009, 21, 378-396.	2.1	2

#	Article	IF	Citations
451	Effect of Ti(C_{0.7}N_{0.3}) Content on the Microstructure and Mechanical Properties of Ni Bonded NbC-Ti(C_{0.7}N_{0.3}) Based Cermets. Solid State Phenomena, 2018, 274, 43-52.	0.3	2
452	Bi-modal distribution of stabilizers to regulate the dual-phase microstructure and transformability in Nd2O3/Y2O3-doped zirconia ceramics. Journal of the European Ceramic Society, 2019, 39, 4330-4337.	5.7	2
453	Effects of 20Âmol% Fe, Co, Ni additions on phase formation, microstructure and mechanical properties of TaCx (xÂ=ÂÂ0.5, 0.55, 0.6, 0.7) ceramics. International Journal of Refractory Metals and Hard Materials, 2021, 95, 105436.	3.8	2
454	Neutron Diffraction Studies of Functionally Graded Alumina/Zirconia Ceramics. Materials Science Forum, 0, , 201-206.	0.3	2
455	Microstructure and properties of WC-11.5%Fe-4%NbH-0.5%C cemented carbides produced by spark plasma sintering. Materials Characterization, 2022, 187, 111838.	4.4	2
456	Transmission Electron Microscopy (TEM) Studies of Interfaces in TiB2-ZrO2 Composites. Materials Research Society Symposia Proceedings, 1996, 458, 133.	0.1	1
457	In-Situ High Temperature Study of Ceramics and Ceramic Ultra-Thin Films Using a X-Ray Diffractometer with a Parabolic Multilayer Mirror. Key Engineering Materials, 2001, 206-213, 775-778.	0.4	1
458	Experimental Investigation and Thermodynamic Assessment of the Vâ€”Wâ€”C System.. ChemInform, 2005, 36, no.	0.0	1
459	Toughness Enhancement of Al₂O₃/Ce-TZP Functionally Graded Materials by Annealing in Inert Atmosphere. Materials Science Forum, 2005, 492-493, 699-704.	0.3	1
460	Suspension Development for Colloidal Shaping of Al₂O₃-ZrO₂ FGMs. Materials Science Forum, 2005, 492-493, 777-782.	0.3	1
461	Influence of Secondary Electro-Conductive Phases on Sliding Wear Performance of Zirconia Based Ceramic Composites. Materials Science Forum, 2007, 561-565, 651-654.	0.3	1
462	Morphological Analysis of Slipâ€Cast Emulsionâ€Templated Alumina Foams by Microfocus Computer Tomography. Journal of the American Ceramic Society, 2010, 93, 3921-3928.	3.8	1
463	Pulsed Electric Current Sintering of Electrical Discharge Machinable Ceramics. Advances in Science and Technology, 2010, 62, 175-184.	0.2	1
464	Production of alumina parts through Selective Laser Sintering of alumina-polyamide composite powder. , 2011, , 319-327.		1
465	Characterization of a Ceramic Powder Surface by Contact Angle Measurements and Infrared Spectroscopy. Key Engineering Materials, 0, 507, 233-238.	0.4	1
466	Confocal Microscope Studies of Living Cells Deposited Using Alternating Current Electrophoretic Deposition (AC-EPD). Key Engineering Materials, 2012, 507, 121-126.	0.4	1
467	Peri-implant bone response to novel PM porous Ti coatings. Powder Metallurgy, 2014, 57, 84-88.	1.7	1
468	Improvement of osseointegration of Ti and Ti-alloys by hydrothermally prepared bioactive anatase coating. International Journal of Nano and Biomaterials, 2015, 6, 18.	0.1	1

#	Article	IF	Citations
469	Influence of NbC Content on the Wear Resistance of Alumina/Niobium Carbide Tools. Materials Research, 2021, 24, .	1.3	1
470	Two-step alkaline thorium dioxide precipitation A low waste method for highly sinterable ThO2. Journal of Nuclear Materials, 2021, 552, 152984.	2.7	1
471	Influence of Surface Finishing Operations on the Reciprocating Sliding Friction and Wear Response of WC Based Cemented Carbides. , 2009, , 435-436.		1
472	Rhodium Condensation during High Temperature Oxidation of Ceramics. Key Engineering Materials, 1995, 113, 105-112.	0.4	0
473	Chemical Reactivity Between Sialon Ceramics and Iron-Based Alloys. Materials Research Society Symposia Proceedings, 1996, 453, 709.	0.1	0
474	The Impulse Excitation Technique for Rapid Assessment of the Temperature Dependence of Structural Properties of Silicon Nitride and Zirconium Oxide Ceramics. , 0, , 217-222.		0
475	Thermodynamic Assessment of the Co?V and Co?V?C System.. ChemInform, 2005, 36, no.	0.0	0
476	Effect of Different Stabilizer Addition on Preparation and Hydrothermal Stability of ZrO₂-TiN Composites with Varying TiN Content. Key Engineering Materials, 2008, 361-363, 795-798.	0.4	0
477	Heating Effects in WC-Co Cemented Carbides as a Result of Reciprocative Dry Sliding Friction. Materials Science Forum, 2007, 561-565, 2197-2200.	0.3	0
478	Influence of CaTiO3 impurity in SHS-TiN powder on the mechanical properties of ZrO2â€“TiN composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 492, 95-101.	5.6	0
479	Textured Î±-Alumina through Electrophoretic Deposition and Templated Grain Growth. Key Engineering Materials, 2009, 412, 261-266.	0.4	0
480	The Effect of the Electrical Properties on the Pulsed Electric Current Sintering Behavior of ZrO2 Based Ceramic Composites. , 2009, , 67-78.		0
481	Modeling of Field Assisted Sintering Technology (FAST) and its Application to Electro-Conductive Systems. Ceramic Engineering and Science Proceedings, 2009, , 109-122.	0.1	0
482	Diffraction study of doped apatite-type La9.33+x(Si1â^'yAO4)6O2+3x/2(A= Fe, Al, Mg). Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s157-s157.	0.3	0
483	Electrophoretic Deposition onto Ionic Liquid Layers. Key Engineering Materials, 0, 507, 35-40.	0.4	0
484	Preparation of microflake ink for low cost printing of CIS-Se absorber layers. , 2012, , .		0
485	Influence of Alumina Addition on Low Temperature Degradation of Y₂O₃-Coated Powder Based Y-TZP Ceramics. Advances in Science and Technology, 0, , .	0.2	0
486	Electrophoretic Deposition of Porous Ti Coatings for Bone Implants: <i>In Vitro</i> and <i>In Vivo</i> Evaluation. Key Engineering Materials, 0, 654, 144-148.	0.4	0

#	Article	IF	Citations
487	Niobium Carbide - An Innovative and Sustainable High-Performance Material for Tooling, Friction and Wear Applications. , 0, , 67-80.		0
488	The outcome of replacing Sn completely by Ge in Kesterite Cu2ZnSnSe4 solar cells. , 2017, , .		0
489	Mechanical Properties of Dental Ceramics. , 2021, , 784-797.		0
490	Application of thermodynamics and kinetics in the designing of new type TRIP steels concerning Al and P effects. Journal of ASTM International, 2008, 5, 101765.	0.2	0
491	Influence of Surface Finishing Operations on Reciprocating Sliding Friction and Wear Response of WC Based Cemented Carbides. , 2009, , .		0