Jef Vleugels

List of Publications by Year in descending order

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491 papers	14,867 citations	22153 59 h-index	46799 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

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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

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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

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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

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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

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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

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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

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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

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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

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163	Synthesis and characterisation of CeO2-coated ZrO2 powder-based TZP. Materials Letters, 2000, 46, 249-254.	2.6	28
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