

Jef Vleugels

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493
papers

11,277
citations

52
h-index

76
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508
ext. papers

13,001
ext. citations

4.2
avg, IF

6.47
L-index

#	Paper	IF	Citations
493	Modelling of the temperature distribution during field assisted sintering. <i>Acta Materialia</i> , 2005 , 53, 4379-4388	8.4	360
492	Selective laser melting of nano-TiB ₂ decorated AlSi10Mg alloy with high fracture strength and ductility. <i>Acta Materialia</i> , 2017 , 129, 183-193	8.4	335
491	Meta-Analysis of Research on Class Size and Achievement. <i>Educational Evaluation and Policy Analysis</i> , 1979 , 1, 2-16	2.6	327
490	Strength, toughness and aging stability of highly-translucent Y-TZP ceramics for dental restorations. <i>Dental Materials</i> , 2016 , 32, e327-e337	5.7	150
489	Additive manufacturing of zirconia parts by indirect selective laser sintering. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 81-89	6	137
488	Additive manufacturing of alumina parts by indirect selective laser sintering and post processing. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 1484-1494	5.3	119
487	NbC as grain growth inhibitor and carbide in WC-Co hardmetals. <i>International Journal of Refractory Metals and Hard Materials</i> , 2008 , 26, 389-395	4.1	100
486	Selective laser melting of tungsten and tungsten alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018 , 72, 27-32	4.1	100
485	Transformation behaviour of tetragonal zirconia: role of dopant content and distribution. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 366, 338-347	5.3	99
484	High-temperature bending strength, internal friction and stiffness of ZrB ₂ /0vol% SiC ceramics. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2519-2527	6	97
483	Microstructure-toughness-wear relationship of tetragonal zirconia ceramics. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 2031-2040	6	96
482	ZrB ₂ Powders Synthesis by Borothermal Reduction. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1586	3.8	92
481	Friction and wear characteristics of WC-Co cemented carbides in dry reciprocating sliding contact. <i>Wear</i> , 2010 , 268, 1504-1517	3.5	92
480	Aging resistance of surface-treated dental zirconia. <i>Dental Materials</i> , 2015 , 31, 182-94	5.7	90
479	Microstructure and mechanical properties of pulsed electric current sintered B ₄ C-TiB ₂ composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1302-1309	5.3	87
478	Synthesis of the new MAX phase Zr ₂ AlC. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1847-1853	6	85
477	Highly-translucent, strong and aging-resistant 3Y-TZP ceramics for dental restoration by grain boundary segregation. <i>Acta Biomaterialia</i> , 2015 , 16, 215-22	10.8	84

476	Influence of sintering conditions on low-temperature degradation of dental zirconia. <i>Dental Materials</i> , 2014 , 30, 669-78	5.7	82
475	Preparation and indirect selective laser sintering of alumina/PA microspheres. <i>Ceramics International</i> , 2012 , 38, 1241-1247	5.1	79
474	Aqueous electrophoretic deposition in asymmetric AC electric fields (ACEPD). <i>Electrochemistry Communications</i> , 2009 , 11, 57-60	5.1	78
473	Synthesis of the novel Zr ₃ AlC ₂ MAX phase. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 943-947	6	77
472	Binderless WC and WCCo materials obtained by pulsed electric current sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , 2008 , 26, 41-47	4.1	77
471	Synthesis and microstructural features of ZrB ₂ SiC-based composites by reactive spark plasma sintering and reactive hot pressing. <i>Scripta Materialia</i> , 2007 , 57, 317-320	5.6	77
470	Hybrid sintering with a tubular susceptor in a cylindrical single-mode microwave furnace. <i>Acta Materialia</i> , 2000 , 48, 3795-3801	8.4	75
469	3Y-TZP ceramics with improved hydrothermal degradation resistance and fracture toughness. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 2453-2463	6	72
468	Staphylococcal biofilm growth on smooth and porous titanium coatings for biomedical applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 215-24	5.4	72
467	Hard, tough and strong ZrO ₂ /WC composites from nanosized powders. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 55-63	6	72
466	VC, Cr ₃ C ₂ and NbC doped WCCo cemented carbides prepared by pulsed electric current sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , 2007 , 25, 417-422	4.1	71
465	Extrusion-based 3D Printing of Ceramic Components. <i>Procedia CIRP</i> , 2015 , 28, 76-81	1.8	68
464	Field assisted sintering of electro-conductive ZrO ₂ -based composites. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 979-985	6	67
463	Fungal β ,3-glucan increases ofloxacin tolerance of Escherichia coli in a polymicrobial E. coli/Candida albicans biofilm. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 3052-8	5.9	64
462	Processing of ultrafine ZrO ₂ toughened WC composites. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 3371-3378	6	64
461	Critical influence of alumina content on the low temperature degradation of 2 β mol% yttria-stabilized TZP for dental restorations. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 741-750	6	63
460	Influence of humidity on the fretting wear of self-mated tetragonal zirconia ceramics. <i>Acta Materialia</i> , 2000 , 48, 2461-2471	8.4	63
459	Crystallographic and morphological analysis of sandblasted highly translucent dental zirconia. <i>Dental Materials</i> , 2018 , 34, 508-518	5.7	62

458	Grain boundary segregation in high-purity, yttria-stabilized tetragonal zirconia polycrystals (Y-TZP). <i>Journal of the European Ceramic Society</i> , 1998 , 18, 1565-1570	6	62
457	Effect of cation dopant radius on the hydrothermal stability of tetragonal zirconia: Grain boundary segregation and oxygen vacancy annihilation. <i>Acta Materialia</i> , 2016 , 106, 48-58	8.4	61
456	High temperature strength of hot pressed ZrB ₂ /0vol% SiC ceramics based on ZrB ₂ starting powders prepared by different carbo/boro-thermal reduction routes. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1609-1614	6	60
455	Direct Selective Laser Sintering/Melting of High Density Alumina Powder Layers at Elevated Temperatures. <i>Physics Procedia</i> , 2014 , 56, 117-124		59
454	A current opinion on electrophoretic deposition in pulsed and alternating fields. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1516-26	3.4	59
453	Fretting wear behavior of TiB ₂ -based materials against bearing steel under water and oil lubrication. <i>Wear</i> , 2001 , 250, 631-641	3.5	59
452	In situ synthesis and densification of submicrometer-grained B ₄ C/TiB ₂ composites by pulsed electric current sintering. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 637-644	6	58
451	Carbon nanofillers for machining insulating ceramics. <i>Materials Today</i> , 2011 , 14, 496-501	21.8	57
450	ZrO ₂ /WC nanocomposites with superior properties. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 1247-1251	6	57
449	Synthesis and characterization of Cr ₂ AlC ceramics prepared by spark plasma sintering. <i>Materials Letters</i> , 2007 , 61, 4442-4445	3.3	57
448	Functionally graded ceramic and ceramic-metal composites shaped by electrophoretic deposition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003 , 222, 223-232	5.1	57
447	Toughness tailoring of yttria-doped zirconia ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 380, 215-221	5.3	55
446	Ectopic bone formation by 3D porous calcium phosphate-Ti6Al4V hybrids produced by perfusion electrodeposition. <i>Biomaterials</i> , 2012 , 33, 4044-58	15.6	54
445	Strong static magnetic field processing of metallic materials: A review. <i>Current Opinion in Solid State and Materials Science</i> , 2012 , 16, 254-267	12	53
444	Hard and tough carbon nanotube-reinforced zirconia-toughened alumina composites prepared by spark plasma sintering. <i>Carbon</i> , 2012 , 50, 706-717	10.4	53
443	The nonsteroidal antiinflammatory drug diclofenac potentiates the in vivo activity of caspofungin against <i>Candida albicans</i> biofilms. <i>Journal of Infectious Diseases</i> , 2012 , 206, 1790-7	7	53
442	Functionally graded WC/Al ₂ O ₃ materials produced by electrophoretic deposition. <i>Scripta Materialia</i> , 2001 , 45, 1139-1145	5.6	53
441	Covalent immobilization of antimicrobial agents on titanium prevents <i>Staphylococcus aureus</i> and <i>Candida albicans</i> colonization and biofilm formation. <i>Journal of Antimicrobial Chemotherapy</i> , 2016 , 71, 936-45	5.1	51

440	Isostatic pressing assisted indirect selective laser sintering of alumina components. <i>Rapid Prototyping Journal</i> , 2012 , 18, 409-419	3.8	51
439	ZrO ₂ /Al ₂ O ₃ composites with tailored toughness. <i>Journal of Alloys and Compounds</i> , 2004 , 372, 278-284	5.7	51
438	Synthesis, microstructure and mechanical properties of Yttria Stabilized Zirconia (3YTZP) □ Multi-Walled Nanotube (MWNTs) nanocomposite by direct in-situ growth of MWNTs on Zirconia particles. <i>Composites Science and Technology</i> , 2010 , 70, 2086-2092	8.6	50
437	Electrically conductive ZrO ₂ /TiN composites. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 3173-3179		50
436	Mechanical properties of Y ₂ O ₃ /Al ₂ O ₃ -coated Y-TZP ceramics. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 873-881	6	50
435	Synergistic Activity of the Plant Defensin HsAFP1 and Caspofungin against Candida albicans Biofilms and Planktonic Cultures. <i>PLoS ONE</i> , 2015 , 10, e0132701	3.7	49
434	Development and Characterization of Y ₂ O ₃ -Stabilized ZrO ₂ (Y-TZP) Composites with TiB ₂ , TiN, TiC, and TiC _{0.5} N _{0.5} . <i>Journal of the American Ceramic Society</i> , 2004 , 82, 2717-2720	3.8	48
433	Synthesis of MAX Phases in the Zr-Ti-Al-C System. <i>Inorganic Chemistry</i> , 2017 , 56, 3489-3498	5.1	47
432	Correlation between physical, electrical, and optical properties of Cu ₂ ZnSnSe ₄ based solar cells. <i>Applied Physics Letters</i> , 2013 , 102, 013902	3.4	47
431	Material Evaluation to Prevent Nozzle Clogging during Continuous Casting of Al Killed Steels.. <i>ISIJ International</i> , 2002 , 42, 1234-1240	1.7	47
430	Thermodynamic prediction of the nonstoichiometric phase Zr _{1-x} Ce _x O _{2-x/2} in the ZrO ₂ -CeO _{1.5} -CeO ₂ system. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 99-106	6	47
429	Peri- and intra-implant bone response to microporous Ti coatings with surface modification. <i>Acta Biomaterialia</i> , 2014 , 10, 986-95	10.8	45
428	ZrB ₂ /SiC composites prepared by reactive pulsed electric current sintering. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2633-2642	6	45
427	The influence of percolation during pulsed electric current sintering of ZrO ₂ /TiN powder compacts with varying TiN content. <i>Acta Materialia</i> , 2007 , 55, 1801-1811	8.4	45
426	Shaping of engineering ceramics by electro, chemical and physical processes. <i>CIRP Annals - Manufacturing Technology</i> , 2016 , 65, 761-784	4.9	45
425	Extrusion-based additive manufacturing of ZrO ₂ using photoinitiated polymerization. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2016 , 14, 28-34	3.4	44
424	Influence of the suspension composition on the electric field and deposition rate during electrophoretic deposition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004 , 245, 35-39	5.1	44
423	(Nbx, Zr _{1-x}) ₄ AlC ₃ MAX Phase Solid Solutions: Processing, Mechanical Properties, and Density Functional Theory Calculations. <i>Inorganic Chemistry</i> , 2016 , 55, 5445-52	5.1	43

422	Effect of WC particle size and Ag volume fraction on electrical contact resistance and thermal conductivity of Ag/WC contact materials. <i>Materials and Design</i> , 2015 , 85, 412-422	8.1	42
421	Preparation of Y2O3-coated ZrO2 powder by suspension drying. <i>Journal of Materials Science Letters</i> , 2000 , 19, 359-361		42
420	The radish defensins RsAFP1 and RsAFP2 act synergistically with caspofungin against <i>Candida albicans</i> biofilms. <i>Peptides</i> , 2016 , 75, 71-9	3.8	41
419	A new method to texture dense M+1AX ceramics by spark plasma deformation. <i>Scripta Materialia</i> , 2016 , 111, 98-101	5.6	41
418	Perfusion electrodeposition of calcium phosphate on additive manufactured titanium scaffolds for bone engineering. <i>Acta Biomaterialia</i> , 2011 , 7, 2310-9	10.8	41
417	Electrophoretic deposition for coatings and free standing objects. <i>Journal of Materials Science</i> , 2004 , 39, 779-785	4.3	41
416	Development of ZrO2/ZrB2 composites. <i>Journal of Alloys and Compounds</i> , 2002 , 334, 200-204	5.7	41
415	Improving high temperature properties of hot pressed ZrB2/0vol% SiC ceramic using high purity powders. <i>Ceramics International</i> , 2013 , 39, 871-876	5.1	40
414	Influence of the type and grain size of the electro-conductive phase on the Wire-EDM performance of ZrO2 ceramic composites. <i>CIRP Annals - Manufacturing Technology</i> , 2008 , 57, 191-194	4.9	40
413	Origin of the Potential Drop Over the Deposit During Electrophoretic Deposition. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 823-828	3.8	40
412	Gradient profile prediction in functionally graded materials processed by electrophoretic deposition. <i>Acta Materialia</i> , 2003 , 51, 6303-6317	8.4	40
411	Estimation of the phase diagram for the ZrO2/Zr2O3/Al2O3 system. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 2903-2910	6	40
410	Spark Plasma Sintering of Superhard B4C/ZrB2 Ceramics by Carbide Boronizing. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1055-1059	3.8	39
409	Effect of heating rate on densification, microstructure and strength of spark plasma sintered ZrB2-based ceramics. <i>Scripta Materialia</i> , 2010 , 62, 802-805	5.6	38
408	Processing and mechanical properties of ZrO2/TiB2 composites. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 3629-3637	6	38
407	Microstructure and mechanical properties of NbC-matrix hardmetals with secondary carbide addition and different metal binders. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015 , 48, 418-426	4.1	37
406	Spark Plasma Sintering As a Solid-State Recycling Technique: The Case of Aluminum Alloy Scrap Consolidation. <i>Materials</i> , 2014 , 7, 5664-5687	3.5	37
405	Impact of Cr3C2/VC addition on the dry sliding friction and wear response of WC/Co cemented carbides. <i>Wear</i> , 2009 , 267, 1642-1652	3.5	37

404	Effects of Re ₂ O ₃ (Re=La, Nd, Y and Yb) addition in hot-pressed ZrB ₂ SiC ceramics. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 3063-3068	6	37
403	Influence of secondary electro-conductive phases on the electrical discharge machinability and frictional behavior of ZrO ₂ -based ceramic composites. <i>Journal of Materials Processing Technology</i> , 2008 , 208, 423-430	5.3	37
402	Influence of WC addition on the microstructure and mechanical properties of NbC/Co cermets. <i>Journal of Alloys and Compounds</i> , 2007 , 430, 158-164	5.7	37
401	Electrophoretic deposition of zirconia layers for thermal barrier coatings. <i>Journal of Materials Science</i> , 2006 , 41, 8086-8092	4.3	37
400	Transformation-induced damping behaviour of Y-TZP zirconia ceramics. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 481-489	6	37
399	The effect of residual stresses in functionally graded alumina/ZTA composites on their wear and friction behaviour. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 151-156	6	36
398	Shaping ceramics through indirect selective laser sintering. <i>Rapid Prototyping Journal</i> , 2016 , 22, 544-558	3.8	36
397	Synthesis of MAX Phases in the Hf-Al-C System. <i>Inorganic Chemistry</i> , 2016 , 55, 10922-10927	5.1	36
396	In vivo <i>Candida glabrata</i> biofilm development on foreign bodies in a rat subcutaneous model. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 846-56	5.1	35
395	High temperature strain hardening behavior in double forged and potassium doped tungsten. <i>Journal of Nuclear Materials</i> , 2014 , 444, 214-219	3.3	35
394	Electrophoretic Deposition as a Novel Near Net Shaping Technique for Functionally Graded Biomaterials. <i>Key Engineering Materials</i> , 2006 , 314, 213-218	0.4	35
393	The role of chemical wear in machining iron based materials by PCD and PCBN super-hard tool materials. <i>Diamond and Related Materials</i> , 2007 , 16, 435-445	3.5	35
392	Direct laser sintering of reaction bonded silicon carbide with low residual silicon content. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 3709-3717	6	35
391	Microstructure and tribological performance of NbC-Ni cermets modified by VC and Mo ₂ C. <i>International Journal of Refractory Metals and Hard Materials</i> , 2017 , 66, 188-197	4.1	34
390	Lifetime estimation of zirconia ceramics by linear ageing kinetics. <i>Acta Materialia</i> , 2015 , 92, 290-298	8.4	34
389	Mechanical properties of spark plasma sintered FeAl intermetallics. <i>Intermetallics</i> , 2010 , 18, 1410-1414	3.5	34
388	A Mathematical Description of the Kinetics of the Electrophoretic Deposition Process for Al ₂ O ₃ -Based Suspensions. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2036-2039	3.8	34
387	Theoretical Prediction and Synthesis of (CrZr)AlC i-MAX Phase. <i>Inorganic Chemistry</i> , 2018 , 57, 6237-6244	5.1	33

386	Reduction of biofilm infection risks and promotion of osteointegration for optimized surfaces of titanium implants. <i>Advanced Healthcare Materials</i> , 2012 , 1, 117-27	10.1	32
385	Electrophoretic deposition of bacterial cells. <i>Electrochemistry Communications</i> , 2009 , 11, 1842-1845	5.1	32
384	The antifungal caspofungin increases fluoroquinolone activity against <i>Staphylococcus aureus</i> biofilms by inhibiting N-acetylglucosamine transferase. <i>Nature Communications</i> , 2016 , 7, 13286	17.4	31
383	In situ platelet-toughened TiB ₂ /SiC composites prepared by reactive pulsed electric current sintering. <i>Scripta Materialia</i> , 2011 , 64, 1145-1148	5.6	31
382	Friction and wear behaviour of SiAlON ceramics under fretting contacts. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 359, 228-236	5.3	31
381	Optoelectronic properties of thin film Cu ₂ ZnGeSe ₄ solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 171, 136-141	6.4	30
380	Dry Reciprocating Sliding Friction and Wear Response of WC/Ni Cemented Carbides. <i>Tribology Letters</i> , 2008 , 31, 199-209	2.8	30
379	Influence of starting powder on the microstructure of WC/Co hardmetals obtained by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 475, 87-91	5.3	30
378	Niobium carbide for wear protection Tailoring its properties by processing and stoichiometry. <i>Metal Powder Report</i> , 2016 , 71, 265-272	2	30
377	Residual compressive surface stress increases the bending strength of dental zirconia. <i>Dental Materials</i> , 2017 , 33, e147-e154	5.7	29
376	Effect of processing parameters on microstructure and properties of tungsten heavy alloys fabricated by SLM. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019 , 82, 23-30	4.1	29
375	The double solid solution (Zr, Nb)(Al, Sn)C MAX phase: a steric stability approach. <i>Scientific Reports</i> , 2018 , 8, 12801	4.9	29
374	A top-down approach to densify ZrB ₂ /SiC/BN composites with deeper homogeneity and improved reliability. <i>Chemical Engineering Journal</i> , 2014 , 249, 93-101	14.7	29
373	Properties of NbC/Co cermets obtained by spark plasma sintering. <i>Materials Letters</i> , 2007 , 61, 574-577	3.3	29
372	Composition design and mechanical properties of mixed (Ce,Y)-TZP ceramics obtained from coated starting powders. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 3109-3115	6	29
371	The innovative impulse excitation technique for high-temperature mechanical spectroscopy. <i>Journal of Alloys and Compounds</i> , 2000 , 310, 284-287	5.7	29
370	Influence of Carbon Nanoparticle Addition (and Impurities) on Selective Laser Melting of Pure Copper. <i>Materials</i> , 2019 , 12,	3.5	28
369	Development of ZrO ₂ /WC composites by pulsed electric current sintering. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3269-3275	6	28

368	Unlubricated fretting wear of TiB ₂ -containing composites against bearing steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 3847-3859	2.3	28
367	Influence of the oxygen partial pressure on the reduction of CeO ₂ and CeO ₂ ZrO ₂ ceramics. <i>Solid State Sciences</i> , 2005 , 7, 539-544	3.4	28
366	Bone tissue response to porous and functionalized titanium and silica based coatings. <i>PLoS ONE</i> , 2011 , 6, e24186	3.7	28
365	Effect of calcia co-doping on ceria-stabilized zirconia. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2621-2631	6	27
364	Electrical characterization of Cu ₂ ZnSnSe ₄ solar cells from selenization of sputtered metal layers. <i>Thin Solid Films</i> , 2013 , 535, 348-352	2.2	27
363	Density improvement of alumina parts produced through selective laser sintering of alumina-polyamide composite powder. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 211-214	4.9	27
362	VC- and Cr ₃ C ₂ -doped WC/NbCCo hardmetals. <i>Journal of Alloys and Compounds</i> , 2008 , 464, 205-211	5.7	27
361	Production of Porous Materials Through Consolidation of Pickering Emulsions. <i>Advanced Engineering Materials</i> , 2007 , 9, 57-59	3.5	27
360	Synthesis and Characterization of Double Solid Solution (Zr,Ti)(Al,Sn)C MAX Phase Ceramics. <i>Inorganic Chemistry</i> , 2019 , 58, 6669-6683	5.1	26
359	Influence of surfactant addition sequence on the suspension properties and electrophoretic deposition behaviour of alumina and zirconia. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 933-939 ⁶	6	26
358	Chemical wear mechanisms of innovative ceramic cutting tools in the machining of steel. <i>Wear</i> , 1999 , 225-229, 285-294	3.5	26
357	Mechanical properties, aging stability and translucency of speed-sintered zirconia for chairside restorations. <i>Dental Materials</i> , 2020 , 36, 959-972	5.7	25
356	Hexagonal BN-encapsulated ZrB ₂ particle by nitride boronizing. <i>Acta Materialia</i> , 2014 , 72, 167-177	8.4	25
355	Strong Magnetic Field Effect on Surface Tension Associated with an Interfacial Magnetic Pressure. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17676-17681	3.8	25
354	Ultrafine Al ₂ O ₃ /B ₄ C composites consolidated by pulsed electric current sintering. <i>Journal of Alloys and Compounds</i> , 2010 , 499, 200-205	5.7	25
353	Pulsed electric current sintering and characterization of ultrafine Al ₂ O ₃ /WC composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 584-589	5.3	25
352	Influence of alloying elements on the chemical reactivity between Si-Al-O-N ceramics and iron-based alloys. <i>Journal of Materials Research</i> , 1996 , 11, 1265-1276	2.5	25
351	Chemical interaction between a sialon cutting tool and iron-based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 187, 177-182	5.3	25

350	NbC grain growth control and mechanical properties of Ni bonded NbC cermets prepared by vacuum liquid phase sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018 , 72, 63-70	4.1	25
349	Systems Biology Reveals MicroRNA-Mediated Gene Regulation. <i>Frontiers in Genetics</i> , 2011 , 2, 29	4.5	24
348	Effect of TiX(X=C, N, O) additives on microstructure and properties of silicon nitride based ceramics. <i>Scripta Materialia</i> , 2005 , 53, 669-673	5.6	24
347	Statistical extreme value modeling of particle size distributions: experimental grain size distribution type estimation and parameterization of sintered zirconia. <i>Materials Characterization</i> , 2000 , 45, 61-70	3.9	24
346	Synthesis and characterisation of CeO ₂ -coated ZrO ₂ powder-based TZP. <i>Materials Letters</i> , 2000 , 46, 249-254	3.5	24
345	Solid state recycling of pure Mg and AZ31 Mg machining chips via spark plasma sintering. <i>Materials and Design</i> , 2016 , 109, 520-529	8.1	24
344	High-translucent yttria-stabilized zirconia ceramics are wear-resistant and antagonist-friendly. <i>Dental Materials</i> , 2019 , 35, 1776-1790	5.7	24
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