Jef Vleugels

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

493 papers	11,277 citations	52 h-index	76 g-index
508 ext. papers	13,001 ext. citations	4.2 avg, IF	6.47 L-index

#	Paper	IF	Citations
493	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	7.4	0
492	Infiltration of porous uranium oxide microspheres prepared by internal gelation. *Journal of Nuclear Materials*, **2022**, 153587	3.3	0
491	Microstructure and mechanical properties of (Nb,W,Ti)(C,N)-Ni solid solution cermets with 6 to 20 wt% Ni. *International Journal of Refractory Metals and Hard Materials*, **2022**, 103, 105757	4.1	1
490	Ultrashort pulsed laser ablation of zirconia-alumina composites for implant applications. *Journal of Materials Processing Technology*, **2022**, 299, 117335	5.3	6
489	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	3.9	0
488	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	3
487	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 350800 °C temperature range. *Acta Materialia*, **2021**, 206, 116606	8.4	3
486	Laser surface texturing of zirconia-based ceramics for dental applications: A review. *Materials Science and Engineering C*, **2021**, 123, 112034	8.3	20
485	Crack mitigation in Laser Powder Bed Fusion processed Hastelloy X using a combined numerical-experimental approach. *Journal of Alloys and Compounds*, **2021**, 864, 158803	5.7	5
484	Deposition of MAX phase-containing thin films from a (Ti,Zr)2AlC compound target. *Applied Surface Science*, **2021**, 551, 149370	6.7	1
483	Thermal dependent properties of LaB6MeB2 eutectic composites. *Ceramics International*, **2021**, 47, 17667-17677	5.1	2
482	Additively Manufactured Zirconia for Dental Applications. *Materials*, **2021**, 14,	3.5	6
481	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	6	1
480	Porous TaCx ISOL target materials from mould-casted Ta4AlC3. *Journal of the European Ceramic Society*, **2021**, 41, 3947-3959	6	1
479	Single-point scratch testing for understanding particle engagement in abrasion of multiphase materials. *Wear*, **2021**, 476, 203689	3.5	1
478	Spark plasma sintered step graded Al2O3NbC composites. *Ceramics International*, **2021**, 47, 19481-19488	5.1	1
477	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	6	4

476	A new approach for the vitrification of municipal solid waste incinerator bottom ash by microwave irradiation. *Journal of Cleaner Production*, **2021**, 284, 124787	10.3	4
475	Porous glass-ceramics made from microwave vitrified municipal solid waste incinerator bottom ash. *Construction and Building Materials*, **2021**, 270, 121452	6.7	5
474	Impact of sandblasting on the flexural strength of highly translucent zirconia. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 115, 104268	4.1	13
473	Microstructure and mechanical properties of WC or Mo2C modified NbC-Ni cermets. *International Journal of Refractory Metals and Hard Materials*, **2021**, 95, 105440	4.1	5
472	Effects of 20 mol% Fe, Co, Ni additions on phase formation, microstructure and mechanical properties of TaCx (x = 0.5, 0.55, 0.6, 0.7) ceramics. *International Journal of Refractory Metals and Hard Materials*, **2021**, 95, 105436	4.1	2
471	Mechanical Properties of Dental Ceramics **2021**, 784-797		
470	Influence of NbC Content on the Wear Resistance of Alumina/Niobium Carbide Tools. *Materials Research*, **2021**, 24,	1.5	1
469	Microstructure and mechanical properties of WC and Ti(C0.7N0.3) modified NbC solid solution cermets. *Journal of Alloys and Compounds*, **2021**, 850, 156594	5.7	1
468	MAX Phases, Structure, Processing, and Properties **2021**, 182-199		1
467	Ultrafast laser selective phase removal for surface modification of nanocomposite materials. *Optics Express*, **2021**, 29, 24834-24845	3.3	3
466	Additive manufacturing of zirconia ceramics by material jetting. *Journal of the European Ceramic Society*, **2021**, 41, 5292-5306	6	5
465	Two-step alkaline thorium dioxide precipitation A low waste method for highly sinterable ThO2. *Journal of Nuclear Materials*, **2021**, 552, 152984	3.3	
464	Alumina toughened zirconia reinforced with equiaxed and elongated lanthanum hexa-aluminate precipitates. *Journal of the European Ceramic Society*, **2021**, 41, 247-247	6	1
463	Mechanical properties, aging stability and translucency of speed-sintered zirconia for chairside restorations. *Dental Materials*, **2020**, 36, 959-972	5.7	25
462	Importance of tetragonal phase in high-translucent partially stabilized zirconia for dental restorations. *Dental Materials*, **2020**, 36, 491-500	5.7	16
461	Morphology dependent sintering path of nanocrystalline ThO2. *Journal of Nuclear Materials*, **2020**, 533, 152081	3.3	2
460	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	10.8	11
459	Compatibility of Zr2AlC MAX phase-based ceramics with oxygen-poor, static liquid lead–bismuth eutectic. *Corrosion Science*, **2020**, 171, 108704	6.8	13

458	Investigation of working gap phenomena in Mechano-Electrochemical Milling. *Procedia CIRP*, **2020**, 95, 672-677	1.8	0
457	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	8.4	18
456	Ta-based 413 and 211 MAX phase solid solutions with Hf and Nb. *Journal of the European Ceramic Society*, **2020**, 40, 1829-1838	6	16
455	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	6	2
454	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	6	19
453	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	4.1	2
452	Thermodynamic description and phase selection for the Mo□Ti□Zr biomedical alloys. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2020**, 70, 101799	1.9	5
451	Production of intense mass separated 11C beams for PET-aided hadron therapy. *Nuclear Instruments & Methods in Physics Research B*, **2020**, 463, 403-407	1.2	4
450	Mechanical and electrical properties of selective laser-melted parts produced from surface-oxidized copper powder. *Material Design and Processing Communications*, **2020**, 2, e94	0.9	12
449	Influence of Carbon Nanoparticle Addition (and Impurities) on Selective Laser Melting of Pure Copper. *Materials*, **2019**, 12,	3.5	28
448	Mechanical properties of replicated cellular Zn and Zn1.5Mg in uniaxial compression. *Materials Characterization*, **2019**, 157, 109895	3.9	2
447	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	3.3	14
446	In-situ measurements of high-temperature dielectric properties of municipal solid waste incinerator bottom ash. *Ceramics International*, **2019**, 45, 18751-18759	5.1	10
445	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	6	1
444	Selective Laser Melting process optimization of Ti□Mo□TiC metal matrix composites. *CIRP Annals - Manufacturing Technology*, **2019**, 68, 221-224	4.9	17
443	Synthesis and Characterization of Double Solid Solution (Zr,Ti)(Al,Sn)C MAX Phase Ceramics. *Inorganic Chemistry*, **2019**, 58, 6669-6683	5.1	26
442	Catalytic activation of all-silica COK-14 zeolite through alumination and particle size reduction using wet ball milling. *Catalysis Today*, **2019**, 334, 3-12	5.3	6
441	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	4.1	29

440	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	6.4	13
439	Resonating Shell: A Spherical-Omnidirectional Ultrasound Transducer for Underwater Sensor Networks. *Sensors*, **2019**, 19,	3.8	13
438	Synthesis, properties and thermal decomposition of the Ta4AlC3 MAX phase. *Journal of the European Ceramic Society*, **2019**, 39, 2973-2981	6	19
437	Interaction of Mn+1AXn phases with oxygen-poor, static and fast-flowing liquid lead-bismuth eutectic. *Journal of Nuclear Materials*, **2019**, 520, 258-272	3.3	18
436	Niobium carbide for machining and wear protection Evolution of properties. *Metal Powder Report*, **2019**, 74, 82-89	2	4
435	Solid state sintering behavior of zirconia-nickel composites. *Ceramics International*, **2019**, 45, 22120-22130	3.1	0
434	Reactive sintering of TiB2-SiC-CNT ceramics. *Ceramics International*, **2019**, 45, 22769-22774	5.1	14
433	Microstructural investigation and machining performance of NbC-Ti(C0.5N0.5) matrix cermets. *International Journal of Refractory Metals and Hard Materials*, **2019**, 84, 105038	4.1	10
432	Influence of relative humidity and low temperature hydrothermal degradation on fretting wear of Y-TZP dental ceramics. *Wear*, **2019**, 428-429, 1-9	3.5	3
431	High-translucent yttria-stabilized zirconia ceramics are wear-resistant and antagonist-friendly. *Dental Materials*, **2019**, 35, 1776-1790	5.7	24
430	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	1.6	0
429	An antibiofilm coating of 5-aryl-2-aminoimidazole covalently attached to a titanium surface. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 1908-1919	3.5	9
428	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	2.7	1
427	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	6	16
426	Slow crack growth resistance of electrically conductive zirconia-based composites with non-oxide reinforcements. *Journal of the European Ceramic Society*, **2019**, 39, 641-646	6	2
425	Iron oxide colouring of highly-translucent 3Y-TZP ceramics for dental restorations. *Journal of the European Ceramic Society*, **2019**, 39, 499-507	6	7
424	Homogeneous hydrolysis of thorium by thermal decomposition of urea. *Radiochimica Acta*, **2018**, 106, 645-653	1.9	4
423	Potentials of niobium carbide (NbC) as cutting tools and for wear protection. *International Journal of Refractory Metals and Hard Materials*, **2018**, 72, 380-387	4.1	22

422	Potentials of Niobium Carbide (NBC) as Cutting Tools and for Wear Protection. *Ceramic Engineering and Science Proceedings*, **2018**, 99-111	0.1	2
421	Increasing the Silicon Carbide Content in Laser Sintered Reaction Bonded Silicon Carbide. *Ceramic Transactions*, **2018**, 207-215	0.1	1
420	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	4.1	3
419	Doping of Cu2ZnSnSe4 solar cells with Na+ or K+ alkali ions. *Journal of Materials Chemistry A*, **2018**, 6, 2653-2663	13	10
418	Crystallographic and morphological analysis of sandblasted highly translucent dental zirconia. *Dental Materials*, **2018**, 34, 508-518	5.7	62
417	Effect of calcia co-doping on ceria-stabilized zirconia. *Journal of the European Ceramic Society*, **2018**, 38, 2621-2631	6	27
416	Degradation mechanisms of alumina-chromia refractories for secondary copper smelter linings. *Corrosion Science*, **2018**, 136, 409-417	6.8	20
415	Effect of Ti(C0.7N0.3) Content on the Microstructure and Mechanical Properties of Ni Bonded NbC-Ti(C0.7N0.3) Based Cermets. *Solid State Phenomena*, **2018**, 274, 43-52	0.4	2
414	Effect of Carbon Content on the Microstructure and Mechanical Properties of NbC-Ni Based Cermets. *Metals*, **2018**, 8, 178	2.3	10
413	Theoretical Prediction and Synthesis of (CrZr)AlC i-MAX Phase. *Inorganic Chemistry*, **2018**, 57, 6237-6244	5.1	33
412	The double solid solution (Zr, Nb)(Al, Sn)C MAX phase: a steric stability approach. *Scientific Reports*, **2018**, 8, 12801	4.9	29
411	Selective laser melting of tungsten and tungsten alloys. *International Journal of Refractory Metals and Hard Materials*, **2018**, 72, 27-32	4.1	100
410	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	4.1	25
409	Nanolaminated ternary carbide (MAX phase) materials for high temperature applications. *International Journal of Refractory Metals and Hard Materials*, **2018**, 72, 51-55	4.1	8
408	Wetting and solidification of silver alloys in the presence of tungsten carbide. *Acta Materialia*, **2018**, 144, 459-469	8.4	13
407	Investigation on Hybrid Mechano-electrochemical Milling of Ti6Al4V. *Procedia CIRP*, **2018**, 68, 156-161	1.8	13
406	In situ alloying and reinforcing of Al6061 during selective laser melting. *Procedia CIRP*, **2018**, 74, 39-43	1.8	12
405	Additive manufacturing of a novel alpha titanium alloy from commercially pure titanium with minor addition of Mo2C. *Materialia*, **2018**, 4, 227-236	3.2	5

404	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	1.9	9
403	Experimental investigation of the process behaviour in Mechano-Electrochemical Milling. *CIRP Annals - Manufacturing Technology*, **2018**, 67, 217-220	4.9	6
402	Direct laser sintering of reaction bonded silicon carbide with low residual silicon content. *Journal of the European Ceramic Society*, **2018**, 38, 3709-3717	6	35
401	Residual compressive surface stress increases the bending strength of dental zirconia. *Dental Materials*, **2017**, 33, e147-e154	5.7	29
400	Analysis of Dynamic Young's Modulus and Damping Behavior of ZrB2-SiC Composites by the Impulse Excitation Technique. *Ceramic Engineering and Science Proceedings*, **2017**, 235-245	0.1	
399	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	6	14
398	Novel processing of Ag-WC electrical contact materials using spark plasma sintering. *Materials and Design*, **2017**, 121, 262-271	8.1	18
397	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	3.9	11
396	Grain-Boundary Engineering for Aging and Slow-Crack-Growth Resistant Zirconia. *Journal of Dental Research*, **2017**, 96, 774-779	8.1	13
395	Selective laser melting of nano-TiB 2 decorated AlSi10Mg alloy with high fracture strength and ductility. *Acta Materialia*, **2017**, 129, 183-193	8.4	335
394	MAX Phase Materials for Nuclear Applications. *Ceramic Engineering and Science Proceedings*, **2017**, 223-233	0.1	4
393	Rapid synthesis of dense NiTi alloy through spark plasma sintering of a TiH2/Ni powder mixture. *Materials Letters*, **2017**, 191, 89-92	3.3	14
392	Synthesis of MAX Phases in the Zr-Ti-Al-C System. *Inorganic Chemistry*, **2017**, 56, 3489-3498	5.1	47
391	Influence of Mo addition on the microstructure and mechanical properties of TiC-NiTi cermets. *Journal of Alloys and Compounds*, **2017**, 712, 579-587	5.7	16
390	Pressureless liquid-phase sintered TiCx-NiTi/Ni cermets. *Ceramics International*, **2017**, 43, 9512-9521	5.1	7
389	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	4.1	34
388	Fretting fatigue wear behavior of Y-TZP dental ceramics processed by non-conventional microwave sintering. *Journal of the American Ceramic Society*, **2017**, 100, 1842-1852	3.8	7
387	Influence of annealing on crucible-free float zone melted LaB6-TiB2 composites. *Journal of Alloys and Compounds*, **2017**, 729, 749-757	5.7	9

386	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	4.3	10
385	Alterations of thorium oxalate morphology by changing elementary precipitation conditions. *Journal of Nuclear Materials*, **2017**, 493, 255-263	3.3	20
384	Influence of HfH2 addition on the microstructure and mechanical properties of TiC-NiTi cermets. *Materials and Design*, **2017**, 133, 30-38	8.1	4
383	The effect of precipitation and calcination parameters on oxalate derived ThO 2 pellets. *Journal of Nuclear Materials*, **2017**, 495, 128-137	3.3	12
382	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	6	15
381	Optoelectronic properties of thin film Cu2ZnGeSe4 solar cells. *Solar Energy Materials and Solar Cells* , **2017**, 171, 136-141	6.4	30
380	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	6	21
379	Stainless steel bonded NbC matrix cermets using a submicron NbC starting powder. *International Journal of Refractory Metals and Hard Materials*, **2017**, 63, 26-31	4.1	11
378	Effect of the duration of a wet KCN etching step and post deposition annealing on the efficiency of Cu2ZnSnSe4 solar cells. *Thin Solid Films*, **2017**, 633, 166-171	2.2	4
377	Tailoring the Functional Properties of Niobium Carbide. *Ceramic Engineering and Science Proceedings*, **2017**, 101-113	0.1	2
376	Controlled release of chlorhexidine from a mesoporous silica-containing macroporous titanium dental implant prevents microbial biofilm formation. *European Cells and Materials*, **2017**, 33, 13-27	4.3	17
375	Single-Element Omnidirectional Piezoelectric Ultrasound Transducer for under Water Communication. *Proceedings (mdpi)*, **2017**, 1, 363	0.3	5
374	Structural and Chemical Analysis of the Zirconia-Veneering Ceramic Interface. *Journal of Dental Research*, **2016**, 95, 102-9	8.1	20
373	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	4.1	4
372	Niobium Carbide An Innovative and Sustainable High-Performance Material for Tooling, Friction and Wear Applications **2016**, 67-80		
371	The antifungal caspofungin increases fluoroquinolone activity against Staphylococcus aureus biofilms by inhibiting N-acetylglucosamine transferase. *Nature Communications*, **2016**, 7, 13286	17.4	31
370	Extrusion-based additive manufacturing of ZrO2 using photoinitiated polymerization. *CIRP Journal of Manufacturing Science and Technology*, **2016**, 14, 28-34	3.4	44
369	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	8.4	61

368	Synthesis of the new MAX phase Zr 2 AlC. *Journal of the European Ceramic Society*, **2016**, 36, 1847-1853	6	85
367	Effect of Ni addition on the contact resistance of Ag-WC electrical contacts. *Journal of Alloys and Compounds*, **2016**, 670, 188-197	5.7	10
366	Densification and tribological profile of niobium oxide. *Wear*, **2016**, 352-353, 65-71	3.5	10
365	The radish defensins RsAFP1 and RsAFP2 act synergistically with caspofungin against Candida albicans biofilms. *Peptides*, **2016**, 75, 71-9	3.8	41
364	Activated sintering of ThO2 with Al2O3 under reducing and oxidizing conditions. *Journal of Nuclear Materials*, **2016**, 470, 34-43	3.3	12
363	Covalent immobilization of antimicrobial agents on titanium prevents Staphylococcus aureus and Candida albicans colonization and biofilm formation. *Journal of Antimicrobial Chemotherapy*, **2016**, 71, 936-45	5.1	51
362	Synthesis of the novel Zr 3 AlC 2 MAX phase. *Journal of the European Ceramic Society*, **2016**, 36, 943-947	6	77
361	A new method to texture dense M+1AX ceramics by spark plasma deformation. *Scripta Materialia*, **2016**, 111, 98-101	5.6	41
360	Influence of Light Irradiation Through Zirconia on the Degree of Conversion of Composite Cements. *Journal of Adhesive Dentistry*, **2016**, 18, 161-71	3	14
359	Antibacterial activity of a new broad-spectrum antibiotic covalently bound to titanium surfaces. *Journal of Orthopaedic Research*, **2016**, 34, 2191-2198	3.8	21
358	Effect of Cu content and temperature on the properties of Cu2ZnSnSe4solar cells. *EPJ Photovoltaics*, **2016**, 7, 70304	0.7	8
357	Shaping ceramics through indirect selective laser sintering. *Rapid Prototyping Journal*, **2016**, 22, 544-558	3.8	36
356	Niobium carbide for wear protection Tailoring its properties by processing and stoichiometry. *Metal Powder Report*, **2016**, 71, 265-272	2	30
355	(Nbx, Zr1-x)4AlC3 MAX Phase Solid Solutions: Processing, Mechanical Properties, and Density Functional Theory Calculations. *Inorganic Chemistry*, **2016**, 55, 5445-52	5.1	43
354	Microstructure and mechanical properties of NbC matrix cermets using Ni containing metal binder. *Metal Powder Report*, **2016**, 71, 349-355	2	19
353	Strength, toughness and aging stability of highly-translucent Y-TZP ceramics for dental restorations. *Dental Materials*, **2016**, 32, e327-e337	5.7	150
352	Synthesis of MAX Phases in the Hf-Al-C System. *Inorganic Chemistry*, **2016**, 55, 10922-10927	5.1	36
351	Solid state recycling of pure Mg and AZ31 Mg machining chips via spark plasma sintering. *Materials and Design*, **2016**, 109, 520-529	8.1	24

350	Shaping of engineering ceramics by electro, chemical and physical processes. *CIRP Annals - Manufacturing Technology*, **2016**, 65, 761-784	4.9	45
349	Effect of WC particle size and Ag volume fraction on electrical contact resistance and thermal conductivity of Ag□WC contact materials. *Materials and Design*, **2015**, 85, 412-422	8.1	42
348	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	6	9
347	Solid State Recycling of Aluminium Sheet Scrap by Means of Spark Plasma Sintering. *Key Engineering Materials*, **2015**, 639, 493-498	0.4	7
346	Alternating Current Electrophoretic Deposition of Bovine Serum Albumin onto Magnesium. *Key Engineering Materials*, **2015**, 654, 139-143	0.4	7
345	Novel anti-infective implant substrates: controlled release of antibiofilm compounds from mesoporous silica-containing macroporous titanium. *Colloids and Surfaces B: Biointerfaces*, **2015**, 126, 481-8	6	17
344	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	2.2	9
343	Extrusion-based 3D Printing of Ceramic Components. *Procedia CIRP*, **2015**, 28, 76-81	1.8	68
342	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	1.8	8
341	Fungal □1,3-glucan increases ofloxacin tolerance of Escherichia coli in a polymicrobial E. coli/Candida albicans biofilm. *Antimicrobial Agents and Chemotherapy*, **2015**, 59, 3052-8	5.9	64
340	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	2.2	4
339	Textured BaTiO3 by templated grain growth and electrophoretic deposition. *Journal of Materials Science*, **2015**, 50, 7896-7907	4.3	21
338	Surface integrity of rotary ultrasonic machined ZrO2□iN and Al2O3□iC□iC ceramics. *Journal of the European Ceramic Society*, **2015**, 35, 3927-3941	6	8
337	In vivo Candida glabrata biofilm development on foreign bodies in a rat subcutaneous model. *Journal of Antimicrobial Chemotherapy*, **2015**, 70, 846-56	5.1	35
336	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	4.1	37
335	Critical influence of alumina content on the low temperature degradation of 2□mol% yttria-stabilized TZP for dental restorations. *Journal of the European Ceramic Society*, **2015**, 35, 741-750	6	63
334	Selenization of printed Cu□n□e alloy nanopowder layers for fabrication of CuInSe2 thin film solar cells. *Thin Solid Films*, **2015**, 582, 18-22	2.2	11
333	Corrosion-Resistant Ternary Carbides For Use in Heavy Liquid Metal Coolants. *Ceramic Engineering and Science Proceedings*, **2015**, 19-34	0.1	2

332	Additive Manufacturing of Metals via Selective Laser Melting: Process Aspects and Material Developments **2015**, 69-99		11
331	Electrophoretic Deposition of Porous Ti Coatings for Bone Implants: In Vitro and In Vivo Evaluation. *Key Engineering Materials*, **2015**, 654, 144-148	0.4	
330	Synergistic Activity of the Plant Defensin HsAFP1 and Caspofungin against Candida albicans Biofilms and Planktonic Cultures. *PLoS ONE*, **2015**, 10, e0132701	3.7	49
329	Lifetime estimation of zirconia ceramics by linear ageing kinetics. *Acta Materialia*, **2015**, 92, 290-298	8.4	34
328	Improvement of osseointegration of Ti and Ti-alloys by hydrothermally prepared bioactive anatase coating. *International Journal of Nano and Biomaterials*, **2015**, 6, 18	0.2	1
327	Titanium implants with modified surfaces: meta-analysis of in vivo osteointegration. *Materials Science and Engineering C*, **2015**, 49, 152-158	8.3	23
326	Highly-translucent, strong and aging-resistant 3Y-TZP ceramics for dental restoration by grain boundary segregation. *Acta Biomaterialia*, **2015**, 16, 215-22	10.8	84
325	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	4.1	15
324	Hydrothermally synthesized BaTiO3 textured in a strong magnetic field. *Ceramics International*, **2015**, 41, 5397-5402	5.1	8
323	Rapid synthesis and elastic properties of fine-grained Ti2SnC produced by spark plasma sintering. *Journal of Alloys and Compounds*, **2015**, 631, 72-76	5.7	17
322	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	5.1	9
321	Aging resistance of surface-treated dental zirconia. *Dental Materials*, **2015**, 31, 182-94	5.7	90
320	Bonding Effectiveness to Differently Sandblasted Dental Zirconia. *Journal of Adhesive Dentistry*, **2015**, 17, 235-42	3	15
319	Additive manufacturing of zirconia parts by indirect selective laser sintering. *Journal of the European Ceramic Society*, **2014**, 34, 81-89	6	137
318	A top-down approach to densify ZrB2–SiC–BN composites with deeper homogeneity and improved reliability. *Chemical Engineering Journal*, **2014**, 249, 93-101	14.7	29
317	Peri- and intra-implant bone response to microporous Ti coatings with surface modification. *Acta Biomaterialia*, **2014**, 10, 986-95	10.8	45
316	3Y-TZP ceramics with improved hydrothermal degradation resistance and fracture toughness. *Journal of the European Ceramic Society*, **2014**, 34, 2453-2463	6	72
315	Influence of ZrH2 addition on pulsed electric current sintered ZrB2–SiC composites. *Scripta Materialia*, **2014**, 77, 41-44	5.6	4

314	Direct Selective Laser Sintering/Melting of High Density Alumina Powder Layers at Elevated Temperatures. *Physics Procedia*, **2014**, 56, 117-124		59
313	Effect of Binder Content in CuInSe Precursor Ink on the Physical and Electrical Properties of Printed CuInSe2 Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 27201-27209	3.8	8
312	Three-dimensional phase-field simulation of microstructural evolution in three-phase materials with different diffusivities. *Journal of Materials Science*, **2014**, 49, 7066-7072	4.3	9
311	Mechanical synthesis of high purity CuInSe alloy nanopowder as precursor for printed CISe thin film solar cells. *Advanced Powder Technology*, **2014**, 25, 1254-1261	4.6	10
310	Influence of sintering conditions on low-temperature degradation of dental zirconia. *Dental Materials*, **2014**, 30, 669-78	5.7	82
309	Friction and wear response of pulsed electric current sintered TiB2B4C ceramic composite. *Wear*, **2014**, 317, 104-110	3.5	10
308	Texturing of 3Y-TZP zirconia by electrophoretic deposition in a high magnetic field of 17.4 T. *Journal of the European Ceramic Society*, **2014**, 34, 3879-3885	6	4
307	High temperature strain hardening behavior in double forged and potassium doped tungsten. *Journal of Nuclear Materials*, **2014**, 444, 214-219	3.3	35
306	Spark Plasma Sintering As a Solid-State Recycling Technique: The Case of Aluminum Alloy Scrap Consolidation. *Materials*, **2014**, 7, 5664-5687	3.5	37
305	Staphylococcal biofilm growth on smooth and porous titanium coatings for biomedical applications. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 215-24	5.4	72
304	3D Phase-Field Simulation and Characterization of Microstructure Evolution during Liquid Phase Sintering. *Advances in Science and Technology*, **2014**, 87, 132-138	0.1	3
303	Influence of Alumina Addition on Low Temperature Degradation of Y2O3-Coated Powder Based Y-TZP Ceramics. *Advances in Science and Technology*, **2014**, 87, 139-144	0.1	
302	Hexagonal BN-encapsulated ZrB2 particle by nitride boronizing. *Acta Materialia*, **2014**, 72, 167-177	8.4	25
301	Powder synthesis and densification of ultrafine B4C-ZrB2 composite by pulsed electrical current sintering. *Journal of the European Ceramic Society*, **2014**, 34, 1923-1933	6	17
300	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	4.1	12
299	Electrical Discharge Machining of (NbxZr1-x)B2-SiC Composites. *Procedia CIRP*, **2013**, 6, 186-191	1.8	5
298	Electrical characterization of Cu2ZnSnSe4 solar cells from selenization of sputtered metal layers. *Thin Solid Films*, **2013**, 535, 348-352	2.2	27
297	Diamond dispersed Si3N4 composites obtained by pulsed electric current sintering. *Journal of the European Ceramic Society*, **2013**, 33, 1237-1247	6	4

296	Correlation between physical, electrical, and optical properties of Cu2ZnSnSe4 based solar cells. *Applied Physics Letters*, **2013**, 102, 013902	3.4	47
295	Alignment of weakly magnetic metals during solidification in a strong magnetic field. *Journal of Alloys and Compounds*, **2013**, 551, 568-577	5.7	17
294	Processing of non-ferromagnetic materials in strong static magnetic field. *Current Opinion in Solid State and Materials Science*, **2013**, 17, 193-201	12	15
293	Spark Plasma Sintering of Superhard B4C□ZrB2 Ceramics by Carbide Boronizing. *Journal of the American Ceramic Society*, **2013**, 96, 1055-1059	3.8	39
292	A current opinion on electrophoretic deposition in pulsed and alternating fields. *Journal of Physical Chemistry B*, **2013**, 117, 1516-26	3.4	59
291	Influence of tip defect and indenter shape on the mechanical properties determination by indentation of a TiB2□30%B4C ceramic composite. *International Journal of Refractory Metals and Hard Materials*, **2013**, 38, 102-110	4.1	22
290	High temperature strength of hot pressed ZrB2□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	6	60
289	Improving high temperature properties of hot pressed ZrB2□20vol% SiC ceramic using high purity powders. *Ceramics International*, **2013**, 39, 871-876	5.1	40
288	Experimental study and simulation of plastic deformation of zirconia-based ceramics in a pulsed electric current apparatus. *Acta Materialia*, **2013**, 61, 2376-2389	8.4	12
287	Additive manufacturing of alumina parts by indirect selective laser sintering and post processing. *Journal of Materials Processing Technology*, **2013**, 213, 1484-1494	5.3	119
286	Recombination stability in polycrystalline Cu2ZnSnSe4 thin films **2013**,		8
285	Modified Titanium Surface-Mediated Effects on Human Bone Marrow Stromal Cell Response. *Materials*, **2013**, 6, 5533-5548	3.5	2
284	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,	1.3	3
283	Bacterial colonisation of porous titanium coatings for orthopaedic implant applications □effect of surface roughness and porosity. *Powder Metallurgy*, **2013**, 56, 267-271	1.9	9
282	Strong magnetic field effects on solid-liquid and particle-particle interactions during the processing of a conducting liquid containing non-conducting particles. *Journal of Colloid and Interface Science*, **2012**, 375, 203-12	9.3	8
281	Ectopic bone formation by 3D porous calcium phosphate-Ti6Al4V hybrids produced by perfusion electrodeposition. *Biomaterials*, **2012**, 33, 4044-58	15.6	54
280	Mechanical properties and microstructural characterizations of potassium doped tungsten. *Nuclear Engineering and Design*, **2012**, 246, 198-202	1.8	21
279	High-temperature bending strength, internal friction and stiffness of ZrB2□20vol% SiC ceramics. *Journal of the European Ceramic Society*, **2012**, 32, 2519-2527	6	97

278	High-strength ZrB2-based ceramics prepared by reactive pulsed electric current sintering of ZrB2–ZrH2 powders. *Journal of the European Ceramic Society*, **2012**, 32, 2537-2543	6	17
277	The Role of the Electric Current and Field during Pulsed Electric Current Sintering **2012**, 43-73		5
276	Strong static magnetic field processing of metallic materials: A review. *Current Opinion in Solid State and Materials Science*, **2012**, 16, 254-267	12	53
275	Electrical discharge machining of composites **2012**, 202-241		3
274	Polystyrene-coated alumina powder via dispersion polymerization for indirect selective laser sintering applications. *Journal of Applied Polymer Science*, **2012**, 128, n/a-n/a	2.9	3
273	Bioactive glass–ceramic coated titanium implants prepared by electrophoretic deposition. *Materials Science and Engineering C*, **2012**, 32, 2267-2273	8.3	23
272	Biofunctionalization of porous titanium coatings through sol–gel impregnation with a bioactive glass–ceramic. *Materials Science and Engineering C*, **2012**, 32, 2292-2298	8.3	12
271	Strong Magnetic Field Effect on Surface Tension Associated with an Interfacial Magnetic Pressure. *Journal of Physical Chemistry C*, **2012**, 116, 17676-17681	3.8	25
270	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
269	Reduction of biofilm infection risks and promotion of osteointegration for optimized surfaces of titanium implants. *Advanced Healthcare Materials*, **2012**, 1, 117-27	10.1	32
268	Strong ZrB2–SiC–WC Ceramics at 1600 °C. *Journal of the American Ceramic Society*, **2012**, 95, n/a-n/a	3.8	19
267	Hard and tough carbon nanotube-reinforced zirconia-toughened alumina composites prepared by spark plasma sintering. *Carbon*, **2012**, 50, 706-717	10.4	53
266	Preparation and indirect selective laser sintering of alumina/PA microspheres. *Ceramics International*, **2012**, 38, 1241-1247	5.1	79
265	Effect of pressure loading cycle on spark plasma sintered ZrB2–SiC–Yb2O3 ceramics. *Ceramics International*, **2012**, 38, 5293-5297	5.1	7
264	Density improvement of alumina parts produced through selective laser sintering of alumina-polyamide composite powder. *CIRP Annals - Manufacturing Technology*, **2012**, 61, 211-214	4.9	27
263	Electrophoretic deposition of apatite type lanthanum silicates for SOFC half cell production. *Advances in Applied Ceramics*, **2012**, 111, 459-465	2.3	4
262	Electrophoretic Deposition onto Ionic Liquid Layers. *Key Engineering Materials*, **2012**, 507, 35-40	0.4	
261	Characterization of a Ceramic Powder Surface by Contact Angle Measurements and Infrared Spectroscopy. *Key Engineering Materials*, **2012**, 507, 233-238	0.4	1

260	Confocal Microscope Studies of Living Cells Deposited Using Alternating Current Electrophoretic Deposition (AC-EPD). *Key Engineering Materials*, **2012**, 507, 121-126	0.4	1
259	The nonsteroidal antiinflammatory drug diclofenac potentiates the in vivo activity of caspofungin against Candida albicans biofilms. *Journal of Infectious Diseases*, **2012**, 206, 1790-7	7	53
258	Isostatic pressing assisted indirect selective laser sintering of alumina components. *Rapid Prototyping Journal*, **2012**, 18, 409-419	3.8	51
257	Modeling of Nucleation and Growth of M23C6 Carbide in Multi-component Fe-based Alloy. *Journal of Materials Science and Technology*, **2011**, 27, 725-728	9.1	17
256	Systems Biology Reveals MicroRNA-Mediated Gene Regulation. *Frontiers in Genetics*, **2011**, 2, 29	4.5	24
255	Production of alumina parts through Selective Laser Sintering of alumina-polyamide composite powder **2011**, 319-327		1
254	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	10
253	In situ platelet-toughened TiB2–SiC composites prepared by reactive pulsed electric current sintering. *Scripta Materialia*, **2011**, 64, 1145-1148	5.6	31
252	Carbon nanofillers for machining insulating ceramics. *Materials Today*, **2011**, 14, 496-501	21.8	57
251	Impact of wire-EDM on dry sliding friction and wear of WC-based and ZrO2-based composites. *Wear* , **2011**, 271, 1951-1961	3.5	20
250	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	6.5	16
249	Impact of Wire-EDM on Tribological Characteristics of ZrO2-based Composites in Dry Sliding Contact with WC–Co-Cemented Carbide. *Tribology Letters*, **2011**, 43, 1-15	2.8	4
248	Microstructure and mechanical properties of pulsed electric current sintered B4C–TiB2 composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 1302-1309	5.3	87
247	Sintering, thermal stability and mechanical properties of ZrO2-WC composites obtained by pulsed electric current sintering. *Frontiers of Materials Science*, **2011**, 5, 50-56	2.5	4
246	Perfusion electrodeposition of calcium phosphate on additive manufactured titanium scaffolds for bone engineering. *Acta Biomaterialia*, **2011**, 7, 2310-9	10.8	41
245	In situ synthesis and densification of submicrometer-grained B4C–TiB2 composites by pulsed electric current sintering. *Journal of the European Ceramic Society*, **2011**, 31, 637-644	6	58
244	Magnetic field oriented tetragonal zirconia with anisotropic toughness. *Journal of the European Ceramic Society*, **2011**, 31, 1405-1412	6	8
243	Electrical discharge machining of B4C–TiB2 composites. *Journal of the European Ceramic Society*, **2011**, 31, 2023-2030	6	22

242	Apatite type lanthanum silicate and composite anode half cells. *Solid State Ionics*, **2011**, 192, 419-423	3.3	5
241	Strong magnetic field-induced segregation and alignment of nonmagnetic particles. *Journal of Applied Physics*, **2011**, 109, 07E301	2.5	4
240	Bone tissue response to porous and functionalized titanium and silica based coatings. *PLoS ONE*, **2011**, 6, e24186	3.7	28
239	ZrB2 Powders Synthesis by Borothermal Reduction. *Journal of the American Ceramic Society*, **2010**, 93, 1586	3.8	92
238	Wettability Assessment of Submicrometer Alumina Powder Using a Modified Washburn Method. *Journal of the American Ceramic Society*, **2010**, 93, 2515-2518	3.8	17
237	Slip Casting of Alumina Suspensions in a Strong Magnetic Field. *Journal of the American Ceramic Society*, **2010**, 93, 3148-3152	3.8	18
236	Morphological Analysis of Slip-Cast Emulsion-Templated Alumina Foams by Microfocus Computer Tomography. *Journal of the American Ceramic Society*, **2010**, 93, 3921-3928	3.8	1
235	STRONG MAGNETIC FIELD INDUCED SEGREGATION AND SELF-ASSEMBLY OF MICROMETER SIZED NON-MAGNETIC PARTICLES. *Progress in Electromagnetics Research B*, **2010**, 23, 199-214	0.7	4
234	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	3.8	9
233	Pulsed Electric Current Sintering of Electrical Discharge Machinable Ceramics. *Advances in Science and Technology*, **2010**, 62, 175-184	0.1	1
232	Non-magnetic anisotropic-materials preparation by a strong magnetic field during the solidification of a hypereutectic Al-Cu alloy. *Europhysics Letters*, **2010**, 89, 64002	1.6	8
231	Functionally Graded All Ceramic HIP Joint **2010**, 323-356		
230	Mechanical properties of spark plasma sintered FeAl intermetallics. *Intermetallics*, **2010**, 18, 1410-1414	3.5	34
229	Powder synthesis, processing and characterization of lanthanum silicates for SOFC application. *Journal of Alloys and Compounds*, **2010**, 495, 552-555	5.7	17
228	Hydrothermal stability of mixed stabilised tetragonal (Y, Nd)-ZrO2 ceramics. *Journal of Alloys and Compounds*, **2010**, 495, 556-560	5.7	9
227	Ultrafine Al2O3B4C composites consolidated by pulsed electric current sintering. *Journal of Alloys and Compounds*, **2010**, 499, 200-205	5.7	25
226	Aluminum Nitride Multi-Walled Nanotube (MWNTs) Nanocomposite by Direct In-situ Growth of CNTs on Aluminum Nitride Particles. *Ceramic Engineering and Science Proceedings*, **2010**, 189-204	0.1	2
225	Nutritional relationships between hemi-parasitic mistletoe and some of its deciduous hosts in different habitats. *Biologia (Poland)*, **2010**, 65, 859-867	1.5	16

224	Electrical discharge machining of ZrO2 toughened WC composites. *Materials Chemistry and Physics*, **2010**, 123, 114-120	4.4	19
223	Effect of heating rate on densification, microstructure and strength of spark plasma sintered ZrB2-based ceramics. *Scripta Materialia*, **2010**, 62, 802-805	5.6	38
222	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, 654-60	9.3	9
221	Fabrication of textured alumina by orienting template particles during electrophoretic deposition. *Journal of the European Ceramic Society*, **2010**, 30, 1195-1202	6	17
220	Pulsed electric current, in situ synthesis and sintering of textured TiB2 ceramics. *Journal of the European Ceramic Society*, **2010**, 30, 1043-1047	6	23
219	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	6	21
218	Synthesis of nano-crystalline apatite type electrolyte powders for solid oxide fuel cells. *Journal of the European Ceramic Society*, **2010**, 30, 1699-1706	6	18
217	ZrB2–SiC composites prepared by reactive pulsed electric current sintering. *Journal of the European Ceramic Society*, **2010**, 30, 2633-2642	6	45
216	Pulsed electric current sintering and characterization of ultrafine Al2O3–WC composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 584-589	5.3	25
215	Surface finishing: Impact on tribological characteristics of WC–Co hardmetals. *Tribology International*, **2010**, 43, 40-54	4.9	22
214	Influence of electrical discharge machining on sliding friction and wear of WC–Ni cemented carbide. *Tribology International*, **2010**, 43, 2333-2344	4.9	15
213	Friction and wear characteristics of WC–Co cemented carbides in dry reciprocating sliding contact. *Wear*, **2010**, 268, 1504-1517	3.5	92
212	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. *Composites Science and Technology*, **2010**, 70, 2086-2092	8.6	50
211	NUMERICAL CALCULATIONS ON INCLUSION REMOVAL FROM LIQUID METALS UNDER STRONG MAGNETIC FIELDS. *Progress in Electromagnetics Research*, **2009**, 98, 359-373	3.8	13
210	Aqueous Electrophoretic Deposition at High Electric Fields. *Key Engineering Materials*, **2009**, 412, 33-38	0.4	6
209	EDM machinability and dry sliding friction of WC-Co cemented carbides. *International Journal of Manufacturing Research*, **2009**, 4, 375	0.4	14
208	Textured –Alumina through Electrophoretic Deposition and Templated Grain Growth. *Key Engineering Materials*, **2009**, 412, 261-266	0.4	
207	Electrophoretic Deposition of Liquid Templates. *Key Engineering Materials*, **2009**, 412, 299-305	0.4	5

206	Y2O3Nd2O3 double stabilized ZrO2TiCN nanocomposites. *Materials Chemistry and Physics*, **2009**, 113, 596-601	4.4	6
205	Reciprocating sliding friction and wear behavior of electrical discharge machined zirconia-based composites against WCCo cemented carbide. *International Journal of Refractory Metals and Hard Materials*, **2009**, 27, 449-457	4.1	15
204	Influence of electrical discharge machining on the reciprocating sliding friction and wear response of WCCo cemented carbides. *International Journal of Refractory Metals and Hard Materials*, **2009**, 27, 350-359	4.1	21
203	Pulsed electric current sintered Fe3Al bonded WC composites. *International Journal of Refractory Metals and Hard Materials*, **2009**, 27, 1019-1023	4.1	20
202	Preparation of Titanium Foams by Slip Casting of Particle Stabilized Emulsions. *Advanced Engineering Materials*, **2009**, 11, 633-636	3.5	17
201	Reciprocative sliding friction and wear properties of electrical discharge machined ZrO2-based composites. *Lubrication Science*, **2009**, 21, 378-396	1.3	2
200	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		8
199	EDM machinability and frictional behavior of ZrO2-WC composites. *International Journal of Advanced Manufacturing Technology*, **2009**, 41, 1085-1093	3.2	17
198	Aqueous electrophoretic deposition in asymmetric AC electric fields (ACEPD). *Electrochemistry Communications*, **2009**, 11, 57-60	5.1	78
197	Influence of electrical discharge machining on the reciprocating sliding wear response of WC-Co cemented carbides. *Wear*, **2009**, 266, 84-95	3.5	23
196	Influence of secondary phases on the tribological response of electro-discharge machined zirconia-based composites against WCCo cemented carbide. *Wear*, **2009**, 267, 2157-2166	3.5	7
195	Impact of Cr3C2/VC addition on the dry sliding friction and wear response of WCCo cemented carbides. *Wear*, **2009**, 267, 1642-1652	3.5	37
194	A novel route to produce porous ceramics. *Journal of the European Ceramic Society*, **2009**, 29, 833-836	6	18
193	Effects of Re2O3 (Re=La, Nd, Y and Yb) addition in hot-pressed ZrB2SiC ceramics. *Journal of the European Ceramic Society*, **2009**, 29, 3063-3068	6	37
192	High temperature properties of ZnO ceramics studied by the impulse excitation technique. *Journal of the European Ceramic Society*, **2009**, 29, 2991-2998	6	15
191	Processing of ultrafine ZrO2 toughened WC composites. *Journal of the European Ceramic Society*, **2009**, 29, 3371-3378	6	64
190	Electrophoretic deposition of bacterial cells. *Electrochemistry Communications*, **2009**, 11, 1842-1845	5.1	32
189	The Effect of the Electrical Properties on the Pulsed Electric Current Sintering Behavior of ZrO2 Based Ceramic Composites **2009**, 67-78		

188	Modeling of Field Assisted Sintering Technology (FAST) and its Application to Electro-Conductive Systems. *Ceramic Engineering and Science Proceedings*, **2009**, 109-122	0.1	
187	Processing, Microstructure and Mechanical Properties of Ultra High Temperature Ceramics Fabricated by Spark Plasma Sintering. *Ceramic Engineering and Science Proceedings*, **2009**, 53-65	0.1	
186	Tribological Characteristics of WC-Ni and WC-Co Cemented Carbide in Dry Reciprocating Sliding Contact. *Tribology Transactions*, **2009**, 52, 481-491	1.8	23
185	Influence of Surface Finishing Operations on the Reciprocating Sliding Friction and Wear Response of WC Based Cemented Carbides **2009**, 435-436		
184	Binderless WC and WC□VC materials obtained by pulsed electric current sintering. *International Journal of Refractory Metals and Hard Materials*, **2008**, 26, 41-47	4.1	77
183	Tailored sintering of VC-doped WC□Co cemented carbides by pulsed electric current sintering. *International Journal of Refractory Metals and Hard Materials*, **2008**, 26, 256-262	4.1	20
182	NbC as grain growth inhibitor and carbide in WC□Co hardmetals. *International Journal of Refractory Metals and Hard Materials*, **2008**, 26, 389-395	4.1	100
181	In situ investigation of dewaxing and sintering of stainless steel powder compacts by impulse excitation. *Scripta Materialia*, **2008**, 58, 985-988	5.6	2
180	VC- and Cr3C2-doped WC□NbC□Co hardmetals. *Journal of Alloys and Compounds*, **2008**, 464, 205-211	5.7	27
179	EDM machinability and frictional behaviour of ZrO2-TiCN composites. *International Journal of Machining and Machinability of Materials*, **2008**, 3, 226	0.7	3
178	Neutron Diffraction Studies of Residual Stresses in Functionally Graded Alumina/Zirconia Ceramics. *Materials Science Forum*, **2008**, 571-572, 309-314	0.4	2
177	Influence of CaTiO3 impurity in SHS-TiN powder on the mechanical properties of ZrO2□TiN composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 492, 95-101	5.3	
176	Sliding Wear of Electrically Conductive ZrO2□WC Composites Against WC□Co Cemented Carbide. *Tribology Letters*, **2008**, 30, 191-198	2.8	12
175	Dry Reciprocating Sliding Friction and Wear Response of WC□Ni Cemented Carbides. *Tribology Letters*, **2008**, 31, 199-209	2.8	30
174	Production and characterization of ZrO2 ceramics and composites to be used for hip prosthesis. *Journal of Materials Science*, **2008**, 43, 1599-1611	4.3	10
173	Pulsed electric current sintering of electrically conductive ceramics. *Journal of Materials Science*, **2008**, 43, 6435-6440	4.3	17
172	Y2O3 and Nd2O3 co-stabilized ZrO2-WC composites. *Journal of Materials Science*, **2008**, 43, 5784-5789	4.3	10
171	Porous Titanium Coatings Obtained by Electrophoretic Deposition (EPD) of Pickering Emulsions and Microwave Sintering. *Advanced Engineering Materials*, **2008**, 10, 246-249	3.5	20

170	VC-doped WCNbCCo hardmetals. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 488, 420-427	5.3	10
169	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	5.3	37
168	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	4.9	40
167	Preparation and conductivity of Yb2O3Y2O3 and Gd2O3Y2O3 co-doped zirconia ceramics. *Solid State Ionics*, **2008**, 179, 1531-1534	3.3	16
166	Reciprocative sliding wear of ZrO2TiCN composites against WC-Co cemented carbide. *Wear*, **2008**, 265, 1767-1775	3.5	10
165	Influence of electrical discharge machining on tribological behavior of ZrO2TiN composites. *Wear*, **2008**, 265, 1884-1892	3.5	14
164	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	4.1	22
163	Influence of starting powder on the microstructure of WCCo hardmetals obtained by spark plasma sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 475, 87-91	5.3	30
162	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		
161	Computer simulation of W-C-Co-V system diffusion couples. *Rare Metals*, **2007**, 26, 492-497	5.5	5
160	Production of Porous Materials Through Consolidation of Pickering Emulsions. *Advanced Engineering Materials*, **2007**, 9, 57-59	3.5	27
159	Chemical reactivity of PVD-coated WCCo tools with steel. *Applied Surface Science*, **2007**, 253, 3547-3556	6.7	12
158	The influence of percolation during pulsed electric current sintering of ZrO2TiN powder compacts with varying TiN content. *Acta Materialia*, **2007**, 55, 1801-1811	8.4	45
157	The effect of residual stresses in functionally graded aluminaZTA composites on their wear and friction behaviour. *Journal of the European Ceramic Society*, **2007**, 27, 151-156	6	36
156	ZrO2VC nanocomposites with superior properties. *Journal of the European Ceramic Society*, **2007**, 27, 1247-1251	6	57
155	Characterization of (Nd,Y)-TZP ceramics prepared by a colloidal suspension coating technique. *Journal of the European Ceramic Society*, **2007**, 27, 1339-1343	6	14
154	Phase instability in ZrO2TiB2 composites. *Journal of the European Ceramic Society*, **2007**, 27, 2203-2208	6	16
153	Development of ZrO2VC composites by pulsed electric current sintering. *Journal of the European Ceramic Society*, **2007**, 27, 3269-3275	6	28

152	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	2
151	Influence of CeO2 Reduction on the Microstructure and Mechanical Properties of Pulsed Electric Current Sintered Y2O3□CeO2 Co-Stabilized ZrO2 Ceramics. *Journal of the American Ceramic Society*, **2007**, 90, 1420-1426	3.8	14
150	VC, Cr3C2 and NbC doped WC□Co cemented carbides prepared by pulsed electric current sintering. *International Journal of Refractory Metals and Hard Materials*, **2007**, 25, 417-422	4.1	71
149	Properties of NbC□Co cermets obtained by spark plasma sintering. *Materials Letters*, **2007**, 61, 574-577	3.3	29
148	Synthesis and characterization of Cr2AlC ceramics prepared by spark plasma sintering. *Materials Letters*, **2007**, 61, 4442-4445	3.3	57
147	Synthesis and microstructural features of ZrB2□SiC-based composites by reactive spark plasma sintering and reactive hot pressing. *Scripta Materialia*, **2007**, 57, 317-320	5.6	77
146	Microwave sintering of CeO2 and Y2O3 co-stabilised ZrO2 from stabiliser-coated nanopowders. *Journal of the European Ceramic Society*, **2007**, 27, 689-693	6	22
145	Field assisted sintering of electro-conductive ZrO2-based composites. *Journal of the European Ceramic Society*, **2007**, 27, 979-985	6	67
144	ZrO2-TiN Composites. *Materials Science Forum*, **2007**, 554, 135-140	0.4	2
143	Influence of Secondary Electro-Conductive Phases on Sliding Wear Performance of Zirconia Based Ceramic Composites. *Materials Science Forum*, **2007**, 561-565, 651-654	0.4	1
142	Recent Advances in Material Characterization Using the Impulse Excitation Technique (IET). *Key Engineering Materials*, **2007**, 333, 235-238	0.4	8
141	Influence of Surface Finishing and Binder Phase on Friction and Wear of WC Based Hardmetals. *Materials Science Forum*, **2007**, 561-565, 2403-2406	0.4	7
140	Effect of Different Stabilizer Addition on Preparation and Hydrothermal Stability of ZrO2-TiN Composites with Varying TiN Content. *Key Engineering Materials*, **2007**, 361-363, 795-798	0.4	
139	Laminated and Functionally Graded Ceramics by Electrophoretic Deposition. *Key Engineering Materials*, **2007**, 333, 49-58	0.4	8
138	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	2
137	Heating Effects in WC-Co Cemented Carbides as a Result of Reciprocative Dry Sliding Friction. *Materials Science Forum*, **2007**, 561-565, 2197-2200	0.4	
136	Edge Effects in Sliding Wear Behavior of ZrO2-WC Composites and WC-Co Cemented Carbides. *Materials Science Forum*, **2007**, 561-565, 503-506	0.4	3
135	Influence of WC addition on the microstructure and mechanical properties of NbC□Co cermets. *Journal of Alloys and Compounds*, **2007**, 430, 158-164	5.7	37

134	Computer simulating the diffusion behavior of V and W in Co binder layer of WC□o cemented carbide. *Journal of Alloys and Compounds*, **2007**, 436, 146-149	5.7	10
133	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	1.2	14
132	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	3.5	35
131	Reciprocating Friction and Wear Behavior of WC-Co Based Cemented Carbides Manufactured by Electro-Discharge Machining. *Materials Science Forum*, **2007**, 561-565, 2025-2028	0.4	7
130	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	6	26
129	Strength and residual stresses of functionally graded Al2O3/ZrO2 discs prepared by electrophoretic deposition. *Scripta Materialia*, **2006**, 54, 2053-2056	5.6	14
128	Laminated and Functionally Graded Ceramics by Electrophoretic Deposition. *Advances in Science and Technology*, **2006**, 45, 1075-1084	0.1	4
127	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	0.4	5
126	Functionally graded ceramics **2006**, 575-596		1
125	Electrophoretic Deposition as a Novel Near Net Shaping Technique for Functionally Graded Biomaterials. *Key Engineering Materials*, **2006**, 314, 213-218	0.4	35
124	The Evolution of the Electrical Field Drop over the Suspension during EPD. *Key Engineering Materials*, **2006**, 314, 13-18	0.4	4
123	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
122	Fabrication, Wear and Performance of Ceramic Cutting Tools. *Advances in Science and Technology*, **2006**, 45, 1776-1785	0.1	7
121	Throwing Power during Electrophoretic Deposition. *Key Engineering Materials*, **2006**, 314, 187-194	0.4	9
120	Origin of the Potential Drop Over the Deposit During Electrophoretic Deposition. *Journal of the American Ceramic Society*, **2006**, 89, 823-828	3.8	40
119	Experimental Investigation and Thermodynamic Assessment of the Nd2O3-Y2O3 System. *Journal of the American Ceramic Society*, **2006**, 89, 2596-2601	3.8	2
118	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	6	18
117	Electrically conductive ZrO2-□iN composites. *Journal of the European Ceramic Society*, **2006**, 26, 3173-3179	6	50

116	Yb2O3 and Y2O3 co-doped zirconia ceramics. *Journal of the European Ceramic Society*, **2006**, 26, 3607-3612	6	16
115	Ketone-amine based suspensions for electrophoretic deposition of Al2O3 and ZrO2. *Journal of the European Ceramic Society*, **2006**, 26, 3531-3537	6	12
114	Optimization of microstructure and properties of in situ formed □O-sialon□TiN composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2006**, 427, 195-202	5.3	17
113	Electrophoretic deposition of zirconia layers for thermal barrier coatings. *Journal of Materials Science*, **2006**, 41, 8086-8092	4.3	37
112	Experimental investigation and thermodynamic assessment of the V□W□C system. *Journal of Alloys and Compounds*, **2005**, 395, 68-74	5.7	16
111	Hard, tough and strong ZrO2□WC composites from nanosized powders. *Journal of the European Ceramic Society*, **2005**, 25, 55-63	6	72
110	Phase assembly and microstructure of CeO2-doped ZrO2 ceramics prepared by spark plasma sintering. *Journal of the European Ceramic Society*, **2005**, 25, 3437-3442	6	15
109	In situ formation of Si2N2O and TiN in Si3N4-based ceramic composites. *Acta Materialia*, **2005**, 53, 2547-2554	8.1	23
108	Modelling of the temperature distribution during field assisted sintering. *Acta Materialia*, **2005**, 53, 4379-4388	8.1	360
107	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	5.1	10
106	Effect of Powder Coating on Stabilizer Distribution in CeO2-Stabilized ZrO2 Ceramics. *Journal of the American Ceramic Society*, **2005**, 88, 1929-1934	3.8	12
105	A Mathematical Description of the Kinetics of the Electrophoretic Deposition Process for Al2O3-Based Suspensions. *Journal of the American Ceramic Society*, **2005**, 88, 2036-2039	3.8	34
104	Influence of the oxygen partial pressure on the reduction of CeO2 and CeO2ZrO2 ceramics. *Solid State Sciences*, **2005**, 7, 539-544	3.4	28
103	Effect of TiX(X=C, N, O) additives on microstructure and properties of silicon nitride based ceramics. *Scripta Materialia*, **2005**, 53, 669-673	5.6	24
102	Experimental Investigation and Thermodynamic Assessment of the V□W□C System.. *ChemInform*, **2005**, 36, no		1
101	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	6	29
100	Processing and mechanical properties of ZrO2□iB2 composites. *Journal of the European Ceramic Society*, **2005**, 25, 3629-3637	6	38
99	Electrically Conductive and Wear Resistant Si3N4-Based Composites with TiC0.5N0.5 Particles for Electrical Discharge Machining. *Materials Science Forum*, **2005**, 492-493, 27-32	0.4	17

98	Toughness Enhancement of Al2O3/Ce-TZP Functionally Graded Materials by Annealing in Inert Atmosphere. *Materials Science Forum*, **2005**, 492-493, 699-704	0.4	1
97	Influence of Al2O3 Addition on the Microstructure and Mechanical Properties of Pressureless Sintered Ce-TZP. *Materials Science Forum*, **2005**, 492-493, 783-0	0.4	3
96	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	0.4	9
95	Thermodynamics and Microstructure of Co-V8C7 Alloy. *Materials Science Forum*, **2005**, 492-493, 523-530	0.4	2
94	Microstructure and Mechanical Properties of Spark Plasma Sintered ZrO2-Al2O3-TiC0.5N0.5 Nanocomposites. *Solid State Phenomena*, **2005**, 106, 153-160	0.4	3
93	Stress Relaxation on Polished Cross-Sections of Al2O3/ZrO2 FGM Discs Measured by Raman Spectroscopy. *Materials Science Forum*, **2005**, 492-493, 641-646	0.4	2
92	Electrophoretic Deposition as a Novel Near Net Shaping Technique for Functionally Graded Biomaterials. *Materials Science Forum*, **2005**, 492-493, 213-218	0.4	7
91	Suspension Development for Colloidal Shaping of Al2O3-ZrO2 FGMs. *Materials Science Forum*, **2005**, 492-493, 777-782	0.4	1
90	Neutron Diffraction Studies of Functionally Graded Alumina/Zirconia Ceramics. *Materials Science Forum*, **2005**, 492-493, 201-206	0.4	3
89	Development and Characterization of Y2O3-Stabilized ZrO2 (Y-TZP) Composites with TiB2, TiN, TiC, and TiC0.5N0.5. *Journal of the American Ceramic Society*, **2004**, 82, 2717-2720	3.8	48
88	Toughness enhancement of Ce-TZP by annealing in argon. *Scripta Materialia*, **2004**, 50, 679-683	5.6	9
87	Electrophoretic deposition for coatings and free standing objects. *Journal of Materials Science*, **2004**, 39, 779-785	4.3	41
86	Advanced symmetrically graded ceramic and ceramic-metal composites. *Journal of Materials Science*, **2004**, 39, 881-888	4.3	8
85	Development and characterisation of SiAlON composites with TiB2, TiN, TiC and TiCN. *Journal of Materials Science*, **2004**, 39, 3375-3381	4.3	18
84	Microstructure and mechanical properties of ZrO2-TiB2 composites. *Journal of Materials Science*, **2004**, 39, 6389-6392	4.3	9
83	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	5.3	99
82	Mechanical properties of Nd2O3/Y2O3-coated zirconia ceramics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 374, 239-243	5.3	21
81	Effect of Porosity on Thermal Conductivity of Al□Si□e□ Alloy Powder Compacts. *International Journal of Thermophysics*, **2004**, 25, 1611-1622	2.1	15

80	Microstructure□toughness□wear relationship of tetragonal zirconia ceramics. *Journal of the European Ceramic Society*, **2004**, 24, 2031-2040	6	96
79	Toughness tailoring of yttria-doped zirconia ceramics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 380, 215-221	5.3	55
78	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	5.1	44
77	Neutron diffraction study of the phase-specific stresses in graded alumina/zirconia ceramics. *Physica B: Condensed Matter*, **2004**, 350, E517-E520	2.8	9
76	ZrO2□Al2O3 composites with tailored toughness. *Journal of Alloys and Compounds*, **2004**, 372, 278-284	5.7	51
75	Thermodynamic assessment of the Co□Y and Co□Y□ system. *Journal of Alloys and Compounds*, **2004**, 385, 114-118	5.7	14
74	Fabrication and characterization of (Nd,Y)-TZP ceramics from stabilizer-coated nanopowder. *Materials Letters*, **2004**, 58, 3353-3357	3.3	8
73	Development of ZrO2□TiB2 composites: role of residual stress and starting powders. *Journal of Alloys and Compounds*, **2004**, 365, 266-270	5.7	22
72	Unlubricated tribological performance of advanced ceramics and composites at fretting contacts with alumina. *Journal of Materials Research*, **2003**, 18, 1314-1324	2.5	15
71	Processing of hardmetal coatings on steel substrates. *Scripta Materialia*, **2003**, 48, 1361-1366	5.6	12
70	Friction and wear behaviour of SiAlON ceramics under fretting contacts. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 359, 228-236	5.3	31
69	Microstructural engineering of functionally graded materials by electrophoretic deposition. *Journal of Materials Processing Technology*, **2003**, 143-144, 572-577	5.3	23
68	Gradient profile prediction in functionally graded materials processed by electrophoretic deposition. *Acta Materialia*, **2003**, 51, 6303-6317	8.4	40
67	Functionally graded ceramic and ceramic□metal composites shaped by electrophoretic deposition. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2003**, 222, 223-232	5.1	57
66	Thermodynamic prediction of the nonstoichiometric phase Zr1□CezO2□ in the ZrO2□CeO1.5□CeO2 system. *Journal of the European Ceramic Society*, **2003**, 23, 99-106	6	47
65	Transformation-induced damping behaviour of Y-TZP zirconia ceramics. *Journal of the European Ceramic Society*, **2003**, 23, 481-489	6	37
64	TiO2 additives for in situ formation of toughened silicon nitride-based composites. *Materials Letters*, **2003**, 57, 4156-4161	3.3	11
63	Functionally Graded Hardmetals with a Continuously Graded Symmetrical Profile. *Materials Science Forum*, **2003**, 423-425, 33-38	0.4	7

62	Design and Fabrication of Symmetric FGM Plates. *Materials Science Forum*, **2003**, 423-425, 23-28	0.4	10
61	Thick Plate-Shaped Al2O3/ZrO2 Composites with Continuous Gradient Processed by Electrophoretic Deposition. *Materials Science Forum*, **2003**, 423-425, 171-176	0.4	16
60	Material Evaluation to Prevent Nozzle Clogging during Continuous Casting of Al Killed Steels.. *ISIJ International*, **2002**, 42, 1234-1240	1.7	47
59	Unlubricated fretting wear of TiB2-containing composites against bearing steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2002**, 33, 3847-3859	2.3	28
58	A study of slag-infiltrated magnesia-chromite refractories using hybrid microwave heating. *Journal of the European Ceramic Society*, **2002**, 22, 903-916	6	23
57	Mechanical properties of Y2O3/Al2O3-coated Y-TZP ceramics. *Journal of the European Ceramic Society*, **2002**, 22, 873-881	6	50
56	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	6	23
55	Thermal stability of in situ formed Si3N4–Si2N2O–TiN composites. *Journal of the European Ceramic Society*, **2002**, 22, 2527-2535	6	16
54	Development of ZrO2–ZrB2 composites. *Journal of Alloys and Compounds*, **2002**, 334, 200-204	5.7	41
53	Fretting wear behavior of TiB2-based materials against bearing steel under water and oil lubrication. *Wear*, **2001**, 250, 631-641	3.5	59
52	Estimation of the phase diagram for the ZrO2–Y2O3–CeO2 system. *Journal of the European Ceramic Society*, **2001**, 21, 2903-2910	6	40
51	Functionally graded WC–Co materials produced by electrophoretic deposition. *Scripta Materialia*, **2001**, 45, 1139-1145	5.6	53
50	Y-TZP Ceramics with Tailored Toughness. *Key Engineering Materials*, **2001**, 206-213, 1185-1188	0.4	11
49	Microstructural Differences in Silicon Nitrides with and without a Small Amount of TiN Additive. *Key Engineering Materials*, **2001**, 206-213, 1181-1184	0.4	5
48	Engineering the Toughness of CeO2-Stabilised ZrO2. *Key Engineering Materials*, **2001**, 206-213, 273-276	0.4	2
47	Transformation behavior of yttria stabilized tetragonal zirconia polycrystal–TiB2 composites. *Journal of Materials Research*, **2001**, 16, 2158-2169	2.5	22
46	Toughness Optimisation of ZrO2-TiB2 Composites. *Key Engineering Materials*, **2001**, 206-213, 1177-1180	0.4	5
45	Internal Friction Characteristics of Y-TZP: Indications for Phase Transformability and Structural Integrity. *Key Engineering Materials*, **2001**, 206-213, 787-790	0.4	2

44	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
43	Perspectives on the Development of Ceramic Composites for Cutting Tool Applications. *Key Engineering Materials*, **2001**, 206-213, 955-960	0.4	11
42	Functionally Graded ZrO2-WC Composites Processed by Electrophoretic Deposition. *Key Engineering Materials*, **2001**, 206-213, 189-192	0.4	13
41	Fretting Wear of Self-Mated Tetragonal Zirconia Ceramics in Different Humidity. *Key Engineering Materials*, **2001**, 206-213, 783-786	0.4	5
40	Die sink electrodischarge machining of zirconia based composites. *Advances in Applied Ceramics*, **2001**, 100, 207-213		18
39	Cylindrical Al2O3 /TZP functionally graded materials by EPD. *Advances in Applied Ceramics*, **2000**, 99, 284-287		13
38	Chemical reactivity of silicon nitride with steel and oxidised steel between 500 and 1200°C. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2000**, 281, 28-36	5.3	19
37	Hybrid sintering with a tubular susceptor in a cylindrical single-mode microwave furnace. *Acta Materialia*, **2000**, 48, 3795-3801	8.4	75
36	Influence of humidity on the fretting wear of self-mated tetragonal zirconia ceramics. *Acta Materialia*, **2000**, 48, 2461-2471	8.4	63
35	High toughness Ce-TZP by sintering in an inert atmosphere. *Scripta Materialia*, **2000**, 43, 1015-1020	5.6	10
34	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	3.9	24
33	Preparation of Y2O3-coated ZrO2 powder by suspension drying. *Journal of Materials Science Letters* , **2000**, 19, 359-361		42
32	Influence of Mechanical Pressure and Temperature on the Chemical Interaction Between Steel and Silicon Nitride Ceramics. *Journal of Materials Research*, **2000**, 15, 1367-1376	2.5	6
31	Synthesis and characterisation of CeO2-coated ZrO2 powder-based TZP. *Materials Letters*, **2000**, 46, 249-254	3.3	24
30	The innovative impulse excitation technique for high-temperature mechanical spectroscopy. *Journal of Alloys and Compounds*, **2000**, 310, 284-287	5.7	29
29	Graded Tribological Materials Formed by Electrophoresis. *Materials Science Forum*, **1999**, 308-311, 95-100	0.4	9
28	Chemical wear mechanisms of innovative ceramic cutting tools in the machining of steel. *Wear*, **1999**, 225-229, 285-294	3.5	26
27	Thermal expansion and damping characteristics of Y-TZP. *Scripta Materialia*, **1999**, 40, 759-765	5.6	19

26	YTZP/CeTZP Functionally Graded Composite. *Journal of Materials Science Letters*, **1998**, 17, 1453-1455		8
25	Grain boundary segregation in high-purity, yttria-stabilized tetragonal zirconia polycrystals (Y-TZP). *Journal of the European Ceramic Society*, **1998**, 18, 1565-1570	6	62
24	ZrO2-Tix Composites. *Key Engineering Materials*, **1997**, 132-136, 2064-2067	0.4	6
23	Chemical Interaction between SiAlON Ceramics and Iron-Based Alloys. *Key Engineering Materials*, **1997**, 138-140, 127-176	0.4	7
22	Chemical Reactivity Between Sialon Ceramics and Iron-Based Alloys. *Materials Research Society Symposia Proceedings*, **1996**, 453, 709		
21	Transmission Electron Microscopy (TEM) Studies of Interfaces in TiB2-ZrO2 Composites. *Materials Research Society Symposia Proceedings*, **1996**, 458, 133		1
20	Influence of alloying elements on the chemical reactivity between Si-Al-O-N ceramics and iron-based alloys. *Journal of Materials Research*, **1996**, 11, 1265-1276	2.5	25
19	Preparation and properties ofX-sialon. *Journal of Materials Science*, **1995**, 30, 4584-4590	4.3	14
18	Rhodium Condensation during High Temperature Oxidation of Ceramics. *Key Engineering Materials*, **1995**, 113, 105-112	0.4	
17	Toughening of X-sialon with Al2O3 platelets. *Journal of the European Ceramic Society*, **1995**, 15, 297-305	6	21
16	Machining of steel with sialon ceramics: influence of ceramic and workpiece composition on tool wear. *Wear*, **1995**, 189, 32-44	3.5	16
15	Toughening of sol-gel derived mullite matrix by Al2O3 platelets. *Journal of Materials Science Letters* , **1994**, 13, 1089-1091		11
14	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	5.3	25
13	Effect of secondary phase on sialon-steel chemical interaction. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1994**, 183, L19-L21	5.3	6
12	Development, characterization and oxidation behaviour of Si3N4?Al2O3 ceramics. *Journal of the European Ceramic Society*, **1994**, 13, 529-544	6	13
11	Micro-Raman Spectroscopy for Phase Identification and Stress Measurement in Advanced Ceramics. *NATO Advanced Study Institutes Series Series E, Applied Sciences*, **1994**, 385-397		1
10	Meta-Analysis of Research on Class Size and Achievement. *Educational Evaluation and Policy Analysis*, **1979**, 1, 2-16	2.6	327
9	The Impulse Excitation Technique for Rapid Assessment of the Temperature Dependence of Structural Properties of Silicon Nitride and Zirconium Oxide Ceramics217-222		

8	Reciprocating Friction and Wear Behavior of WC-Co Based Cemented Carbides Manufactured by Electro-Discharge Machining. *Materials Science Forum*,2025-2028	0.4	3
7	Heating Effects in WC-Co Cemented Carbides as a Result of Reciprocative Dry Sliding Friction. *Materials Science Forum*,2197-2200	0.4	3
6	Neutron Diffraction Studies of Functionally Graded Alumina/Zirconia Ceramics. *Materials Science Forum*,201-206	0.4	2
5	Electrophoretic Deposition as a Novel Near Net Shaping Technique for Functionally Graded Biomaterials. *Materials Science Forum*,213-218	0.4	3
4	Effect of Grain Boundary Segregation on the Hydrothermal Degradation of Dental 3Y-TZP Ceramics. *Ceramic Engineering and Science Proceedings*,81-88	0.1	
3	Engineering the Composition Profile in Functionally Graded Materials Processed by Electrophoretic Deposition. *Ceramic Transactions*,43-52	0.1	
2	Electrophoretic Deposition of Particle-Stabilized Emulsions13-26		3
1	Laser powder bed fusion as a net-shaping method for reaction bonded SiC and B4C. *Virtual and Physical Prototyping*,1-10	10.1	1