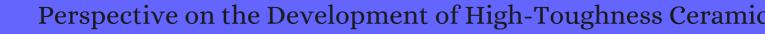
CITATION REPORT List of articles citing



DOI: 10.1111/j.1151-2916.1990.tb06493.x Journal of the American Ceramic Society, 1990, 73, 187-206.

Source: https://exaly.com/paper-pdf/21248204/citation-report.pdf

Version: 2024-04-23

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
1367	ChemInform Abstract: Perspective on the Development of High-Toughness Ceramics. 1990 , 21, no		2
1366	Determination of Fiber/Matrix Interface Mechanical Properties in Brittle-Matrix Composites. 1990 , 194, 263		1
1365	Initial Evaluation of Continuous Fiber Reinforced NiAl Composites. 1990 , 194, 323		8
1364	Mechanical Properties of Ebi3N4-Whisker/Si3N4-Matrix Composites. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 3493-3496	3.8	18
1363	This week in science. 1990 , 249, 603		1
1362	Mapping materials properties with Raman spectroscopy utilizing a 2-D detector. 1990 , 29, 4969-80		43
1361	Vapor-phase fabrication and properties of continuous-filament ceramic composites. 1991 , 253, 1104-9		271
1360	The role of shear stresses and shear strains in transformation-toughening. 1991 , 64, 879-902		22
1359	Development of ceramic-matrix composites 🖪 challenge to chemistry. 1991 , 50, 107-123		2
1358	Improving stability in the double-cantilever-beam fracture test. 1991 , 147, L17-L20		1
1357	Fabrication of flaw-tolerant aluminum-titanate-reinforced alumina. 1991 , 7, 93-99		58
1356	Wear and strength of Mg-PSZ, worn on hardened steel. 1991 , 8, 123-133		5
1355	Consolidation of powder to form a matrix around fibers in composite materials. 1991 , 12, 185-190		9
1354	Crack Resistance and Fatigue of Transforming Ceramics: I, Materials in the ZrO2N2O3Al2O3 System. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 318-325	3.8	39
1353	Statistics of Flaw Interaction in Brittle Materials. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 352	-3587	10
1352	Simple Method for Measuring the Friction Coefficient of Thin Fibers. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1692-1694	3.8	6
1351	High-Toughness Ce-TZP/Al2O3 Ceramics with Improved Hardness and Strength. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 179-186	3.8	101

1350	Crack Stability and T-Curves Due to Macroscopic Residual Compressive Stress Profiles. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1981-1986	39
1349	Quasi-brittle behaviour of ceramics and its relevance for thermal shock. 1991 , 40, 871-877	7
1348	Orthotropy rescaling and implications for fracture in composites. 1991 , 28, 235-248	147
1347	Constituent scale and property effects on fibre Imatrix debonding and pull-out. 1991 , 26, 5888-5898	12
1346	Effect of carbon monoxide partial pressure on the high-temperature decomposition of Nicalon fibre. 1991 , 26, 5075-5080	38
1345	A new approach to fracture toughness analysis and its application to ABS polymers. 1991 , 6, 1369-1373	5
1344	R-Curve Behavior of Ceramics. 1992 , 187-208	22
1343	Anisotropic stress analysis of inclusion problems using the boundary integral equation method. 1992 , 27, 67-76	28
1342	The influence of an oxidation inhibitor on the elevated temperature fracture resistance of carbon/carbon composites. 1992 , 7, 1795-1804	3
1341	Fiber pullout processes and mechanisms of a carbon fiber reinforced silicon nitride ceramic composite. 1992 , 7, 2869-2875	18
1340	Role of interface properties on the toughness of brittle matrix composites reinforced with ductile fibers. 1992 , 7, 3132-3138	7
1339	A Perspective on MoSi2 Based Composites. 1992 , 273, 229	8
1338	Elevated-temperature cyclic crack growth in a SiC-TiB2 composite. 1992 , 27, 839-843	
1337	Tetragonal zirconia powders from the zirconium n-propoxide-acetylacetone-water-isopropanol system. 1992 , 147-148, 542-547	56
1336	The mechanical properties of ceramic composites produced by melt oxidation. 1992 , 40, 177-184	22
1335	Matrix crack spacing in brittle matrix composites. 1992 , 40, 2033-2043	100
1334	Synthesis and properties of model SiC-Si3N4 interfaces. 1992 , 27, 3770-3776	1
1333	Composite materials for fusion applications. 1992 , 191-194, 75-83	9

1332	Filter cake forming and hot isostatic pressing for TZP-dispersed hydroxyapatite composite. 1992 , 3, 199	9-203	42
1331	An application of sol gelation in the dispersion mixing of ceramic-matrix composites. 1992 , 11, 807-809		2
1330	Notch sensitivity and temperature dependence of non-linear deformation of ceramic-metal composite. 1992 , 11, 1127-1128		
1329	Dispersion stability of alumina-wollastonite aqueous suspensions. 1992 , 11, 1633-1635		
1328	Mechanical Properties of Continuous-Fiber-Reinforced Carbon Matrix Composites and Relationships to Constituent Properties. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 3017-3025	3.8	56
1327	Homogeneous Fabrication of Al2O3IrO2BiC Whisker Composite by Surface-Induced Coating. Journal of the American Ceramic Society, 1992 , 75, 3369-3376	3.8	38
1326	R-Curve Behavior in Zirconia-Reinforced Molybdenum Disilicide Composites. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 23-27	3.8	26
1325	Assessment of Oxide Debond Coatings for Metal-Toughene Intermetallics. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 1935-1941	3.8	1
1324	Fracture and Contact Adhesion Energies of Mica-Mica, Silica-Silica, and Mica-Silica Interfaces in Dry and Moist Atmospheres. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 667-676	3.8	83
1323	Distribution of Matrix Cracks in a Uniaxial Ceramic Composite. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 316-324	3.8	33
1322	Indentation Method for Determining the Macroscopic Fracture Energy of Brittle Bimaterial Interfaces. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 413-417	3.8	18
1321	Unidirectional ceramic matrix composites under dynamic flexure. 1992 , 42, 263-270		
1320	On the toughness and creep behavior of fiber reinforced MoSi2 intermetallics. 1992 , 153, 668-675		33
1319	Investigation of chemical reactions in TiB2/Si3N4 composites. 1992 , 159, 127-133		20
1318	Redistribution of Ce and La during processing of Ce(La)-TZP/Al2O3 composites. 1992 , 10, 381-392		16
1317	Toughening mechanisms for ceramic materials. 1992 , 10, 131-142		161
1316	Interaction between crack deflection and crack bridging. 1992 , 10, 143-150		69
1315	SiC and Si3N4 materials with improved fracture resistance. 1992 , 10, 151-159		70

1314	Residual stress and the stress-strain relation for Mg-PSZ. 1992 , 9, 265-270	2
1313	Delamination R-curve phenomena due to damage. 1992 , 40, 1-16	233
1312	The analysis of shape change during isostatic pressing. 1992 , 34, 53-62	15
1311	Citrate precursor derived alumina-ceria composite powders. Ceramics International, 1992 , 18, 107-111 $_{5.1}$	2
1310	A comparative high-resolution study of interface chemistry in silicon-nitride-based ceramic matrix composites reinforced with silicon carbide whiskers. 1992 , 40, 229-239	14
1309	The crack tip zone shielding effect for ductile particle reinforced brittle materials. 1992 , 8, 136-139	3
1308	Effect of fiber coating on the mechanical properties of a Nextel-480-fiber-reinforced glass matrix composite. 1992 , 150, 161-169	10
1307	High-temperature fracture behavior of porous zirconia ceramics. 1992 , 154, L11-L14	4
1306	Interfacial boundaries in Si3N4-based ceramic composites: Constraints from matrix effects and stability of microstructure. 1992 , 10, 175-193	5
1305	Einflulder Korngr auf mechanische Eigenschaften und den ungeschmierten reversierenden Gleitverschleilvon Al2O3-Keramik. 1992 , 23, 329-338	9
1304	Characterization of wake-zone tractions in an oxidation-inhibited carbon/carbon composite. 1993 , 49, 315-325	2
1303	Three-dimensional micromechanical analysis of cracks in a ceramic composite. 1993 , 13, 237-248	2
1302	Scale of microstructure effects on the impact resistance of Al2O3. 1993 , 162-164, 1073-1080	8
1301	Wear mechanism of ceramic tools. 1993 , 160, 227-235	26
1300	Strength and residual stress of Mg-PSZ after grinding. 1993 , 160, 301-308	10
1299	Multi-fracture of ceramic composites. 1993 , 41, 351-388	55
1298	Models for breakdown-resistant dielectric and ferroelectric ceramics. 1993 , 41, 1155-1176	190
1297	High-temperature plasticity effects in bridged cracks and subcortical crack growth in ceramic composites. 1993 , 166, 211-220	30

Estimation of energy-dissipative process development during crack propagation in an intermetallic 1296 alloy. 1993, 169, L9-L11 Creep properties of an alumina-zirconia composite reinforced with silicon carbide whiskers. 1993, 1295 7 11.51-62 1294 Colloidal processing of sol-sprayed ceramic particulate composites. 1993, 12, 449-453 3 Hot isostatic pressing of SiC-platelets/Y-TZP composites. 1993, 12, 103-109 1293 19 A theoretical and experimental analysis of the debonding process of ductile-ribbon embedded in a 1292 2 brittle matrix. 1993, 12, 1758-1764 On the Themory effectIand invariance of R-curves of crack propagation resistance in ceramics. **1993**, 12, 984-985 1290 Phase separation and toughening of SiC-AIN solid-solution ceramics. 1993, 28, 3859-3865 35 Nicalon-fibre-reinforced silicon-carbide composites via polymer solution infiltration and chemical 1289 27 vapour infiltration. 1993, 28, 3866-3868 Prediction of indentation-load dependence of fracture strengths from R-curves of toughened 1288 11 ceramics. 1993, 28, 6120-6126 KR-curve behaviour in Al2O3/Cr ceramic-metal composites. 1993, 12, 765-766 Corrosion of Silicon-Based Ceramics in Combustion Environments. Journal of the American Ceramic 1286 3.8 609 Society, 1993, 76, 3-28 Toughening by Metallic Lamina in Nickel/Alumina Composites. Journal of the American Ceramic 1285 3.8 62 Society, 1993, 76, 1258-1264 R-Curve Behavior and Flaw Insensitivity of Ce-TZP/Al2O3 Composite. Journal of the American 1284 3.8 31 Ceramic Society, 1993, 76, 961-969 Fracture Behavior of Chemically-Vapor-Deposited SiC-Coated Graphite: I, Experimental Results. 3.8 17 Journal of the American Ceramic Society, 1993, 76, 3066-3072 1282 Processing and microstructure of non-oxide ceramic fibres. 1993, 16, 87-108 2 Fracture toughness assessment of silicon carbide-based ceramics and particulate-reinforced 1281 10 composites. 1993, 24, 177-183 The effect of thermal cycling on interfacial bonding in a ceramic matrix composite reinforced with a 1280 3 metallic ribbon. 1993, 28, 1405-1410 In situ formation of metal-ceramic microstructures, including metal-ceramic composites, using 22 reduction reactions. 1993, 41, 2153-2161

1278	Modeling of transformation toughening in brittle composites. 1993 , 28, 1393-1398	2
1277	Presynthesised interfaces for ceramic matrix composites via fibre coating. 1993 , 17, 246-252	2
1276	High-resolution electron microscopy studies of interfaces in ceramic matrix composites. 1993 , 1, 365-380	
1275	Control of strength and toughness of ceramic/metal laminates using interface design. 1993 , 8, 2362-2369	40
1274	MoSi2-Based High-Temperature Structural Silicides. 1993 , 18, 35-41	114
1273	Brittle Composites Modeling: Comparisons with MoSi2/ZrO2. 1993 , 322, 229	
1272	The Application of Reactive Hot Compaction and In-Situ Coating Techniques to Intermetallic Matrix Composites. 1993 , 322, 87	
1271	Models for Metal/Ceramic Interface Fracture. 1993 , 217-232	3
1270	Fatigue-crack propagation behavior in ceramic materials. 1994 , 359-364	
1269	Microstructure, chemical aspects, and mechanical properties of TiB2/Si3N4 and TiN/Si3N4 composites. 1994 , 9, 2349-2354	38
1268	Fracture behavior of fused quartz with laser-induced internal flaws. 1994 , 9, 1780-1788	6
1267	TOUGHENING MECHANISMS FOR CERAMICS. 1994 , 925-941	
1266	Reprocessing of Sintered and Melt High Temperature Superconducting Materials. 1994 , 344, 307	1
1265	Mechanical Response of Semi-Brittle Ceramics Subjected to Tension-Compression State. Part I: Theoretical Modeling. 1994 , 3, 212-233	21
1264	Combustion-synthesized №SiAlON reinforced with SiC monofilaments. 1994 , 188, 341-351	6
1263	A review of fundamental coating issues for high temperature composites. <i>Surface and Coatings Technology</i> , 1994 , 68-69, 116-125	21
1262	Al2O3-5 wt% Al composites by ICP sintering of synthesized precursor. 1994 , 29, 6604-6610	1
1261	R-curve behaviour of PZT ceramics near the morphotropic phase boundary. 1994 , 29, 6115-6122	14

1260	Microstructure and mechanical properties of Cr3C2 particulate reinforced Al2O3 matrix composites. 1994 , 29, 2671-2677	37
1259	Direct observation of the fracture of CAS-Glass/SiC composites. 1994 , 29, 3643-3652	12
1258	Fabrication of hybrid ceramic matrix composites. 1994 , 1, 177-181	5
1257	Strength-grain size behaviour of ZrO2 at room temperature. 1994 , 13, 1408-1412	11
1256	A model for crack-face bridging. 1994 , 65, 329-344	15
1255	Microstructural development and mechanical properties of pressureless-sintered SiC with plate-like grains using Al2O3-Y2O3 additives. 1994 , 29, 5321-5326	69
1254	Microcomposites of polymeric high performance fibres with aligned substructures. 1994 , 13, 930-933	2
1253	Friction and wear of ZrO2-TiO2 surface-alloyed Al2O3 ceramics in unlubricated sliding contact. 1994 , 25, 110-118	5
1252	Schwingungsverschleißvon ungeschmeierten, faserkeramischen C/C-SiC-Gleitpaarungen. 1994 , 25, 442-450	
1251	Modelling of semi-brittle MgO ceramic behaviour under compression. 1994 , 18, 1-16	42
1250	Damage-resistant SrO-doped Ce-tzP/Al2O3 composites. 1994 , 15, 123-133	18
1249	The role of the fiber/matrix interface in the first matrix cracking of fiber-reinforced brittle-matrix composites. 1994 , 51, 283-289	10
1248	Laser-induced surface alloying of Al2O3 ceramics with ZrO2?TiO2 powders. <i>Ceramics International</i> , 1994 , 20, 147-157	10
1247	Postirradiation fiber debonding and pull-out in SiC-SiC composites. 1994 , 212-215, 845-848	4
1246	Evaluation of impact resistance and brittleness of structural ceramics. 1994 , 150, 323-328	3
1245	Development and characterization of interface coatings in molybdenum-reinforced NiAl matrix composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2.3 1994 , 25, 2111-2116	3
1244	IN SITU SCANNING ELECTRON MICROSCOPE OBSERVATIONS OF FATIGUE IN MAGNESIA-PARTIALLY-STABILIZED ZIRCONIA. 1994 , 17, 285-296	4
1243	Subcritical Crack Growth in CVI Silicon Carbide Reinforced with Nicalon Fibers: Experiment and Model. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2381-2394	44

1242	Crack-ShapelWake-Area Effects on Ceramic Fracture Toughness and Strength. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2479-2480	3.8	5
1241	Effect of Relative Humidity on Repetitive Impact Behavior of Machined Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 683-688	3.8	11
1240	Fracture Behavior of CVD SiC-Coated Graphite: II, Conditions for the Onset of Multiple Cracking. Journal of the American Ceramic Society, 1994 , 77, 717-720	3.8	9
1239	Indentation Studies on Y2O3-Stabilized ZrO2: II, Toughness Determination from Stable Growth of Indentation-Induced Cracks. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 1194-1201	3.8	51
1238	Flat R-Curve from Stable Propagation of Indentation Cracks in Coarse-Grained Alumina. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 315-322	3.8	36
1237	Porosity Effects on Machining Direction Strength Anisotropy and Failure Mechanisms. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2232-2236	3.8	18
1236	Processing, Microstructure, and Wear Behavior of Silicon Nitride Hot-Pressed with Alumina and Yttria. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 883-890	3.8	32
1235	New Development of the J-Based Fracture Testing Technique for Ceramic-Matrix Composites. Journal of the American Ceramic Society, 1994 , 77, 1553-1561	3.8	18
1234	Whisker Toughening of Ceramics: Toughening Mechanisms, Fabrication, and Composite Properties. 1994 , 24, 83-124		18
1233	Fracture Toughness by the Surface Crack in Flexure (SCF) Method: Results of the Vamas Round Robin. 846-855		22
1232	Cyclic Fatigue-Crack Growth in Si3N4-Ceramics. 1994 , 365-378		2
1231	Diamond coating of titanium alloys. 1994 , 263, 1753-5		89
1230	Modeling of brittle/brittle laminates: The effects of the interfacial cohesion. 1994 , 31, 1437-1442		2
1229	Interface modification by chemical etching in glass matrix composite reinforced with metallic ribbon. 1994 , 30, 159-164		1
1228	Studies on tungsten (WHfC) filament-reinforced NbAl3-base alloy. 1994 , 2, 43-54		10
1227	Shear induced transformation toughening in ceramics. 1994 , 42, 3827-3836		26
1226	The elevated temperature compressive behavior of a Nb aligned fibrous composite. 1994 , 30, 203-208		3
1225	Crack Velocity Measurements in Sea Ice. 1994 , 362, 85		

Ductile Phase Toughened Ceramics by Partial Reduction Reactions in the Ni-Al-O System: Mechanical Properties and Effect of Dopants. **1994**, 365, 125

1223 Strong Interface in CMCs, a Condition for Efficient Multilayered Interphases. 1994 , 365, 371		25
Micromechanics Constitutive Description of Thermoelastic Martensitic Transformations. 1994 , 31,	249-298	16
Fracture, Fatigue and Indentation Behavior of Pyrolytic Carbon for Biomedical Applications. 1995 , 383, 229		4
Oligomeric and polymeric modifiers for toughening of epoxy resins. 1995 , 31, 1021-1029		96
1219 Mechanical behaviour of mullite composites reinforced with mullite fibres. 1995 , 203, 171-176		17
1218 Composite ceramic materials with SiC fiber. 1995 , 36, 235-237		
Optimization of interfacial bonding to enhance fracture toughness of ceramic matrix reinforced with metallic ribbon. 1995 , 30, 2401-2405		3
Mechanical properties in the initial stage of sintering. 1995 , 30, 1863-1871		33
Mechanical and physical properties of sintered YBCO-metal bulk composites with silver powder an fibres. 1995 , 30, 763-769	d	17
The orientation relationship between tetragonal zirconia precipitates with regard to elastic interaction energy. 1995 , 30, 5681-5686		1
1213 Influence of matrix cracking on mechanical properties of a ceramic matrix composite. 1995 , 14, 978	B-981	
Fatigue-crack propagation behavior in monolithic and composite ceramics and intermetallics. 1995 30, 277-300	,	1
Interfacial Debonding Behavior of Mullite/SiC Continuous Fiber Composite. <i>Journal of the Americal Ceramic Society</i> , 1995 , 78, 3209-3216	n 3.8	5
Chemical and Structural Widths of Interfaces and Grain Boundaries in Silicon NitrideBilicon Carbide Whisker Composites. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2579-2592	3.8	11
Failure Modes of a Unidirectional Ultra-High-Modulus Carbon-Fiber Carbon-Matrix Composite. Journal of the American Ceramic Society, 1995 , 78, 623-632	3.8	3
Fracture Toughness of Al2O3-Particle-Dispersed Y2O3-Partially Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 1079-1082	3.8	32
Pillared Smectite Clay Coatings for Ceramic-Matrix Composites. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2243-2247	3.8	5

1206 Microcracking in B4C-TiB2 Composites. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 237	74-2380	3.8	108
Failure Modes of SiC-Fiber/Si3N4-Matrix Composites at Elevated Temperatures. <i>Journal of th American Ceramic Society</i> , 1995 , 78, 388-394	ie	3.8	10
1204 Experimental investigations of crack trapping in brittle heterogeneous solids. 1995 , 19, 343-3	364		57
1203 Mechanical behavior of MoSi2 and MoSi2 composites. 1995 , 192-193, 31-37			145
In situ metal-ceramic microstructures by partial reduction reactions in the Ni?Al?O system and role of ZrO2. 1995 , 195, 39-50	d the		16
Effect of second phase on mechanical properties and toughening of Al2O3 based ceramic composites. 1995 , 5, 1275-1286			21
1200 Fracture propagation near a frictionally - constrained fiber interface. 1995 , 5, 25-36			5
Oxide ceramic matrix/oxide fibre woven fabric composites exhibiting dissipative fracture behaviour. 1995 , 26, 175-182			85
1198 The structural performance of ceramic matrix composites. 1995 , 3-84			9
1197 Effect of machining residual stresses on the repetitive impact behavior of silicon nitride. 199	5 , 10, 95-1	00	11
1196 Application of Phase Diagrams to the Production of Advanced Composites. 1995 , 85-125			4
Stochastic Process of Multiple Cracking in Discontinuous Random Fiber Reinforced Brittle Ma Composites. 1995 , 4, 83-102	atrix		52
1194 Ceramic-matrix composites. 1995 , 1-254			
1193 An Experimental Investigation of Damage Evolution in a Ceramic Matrix Composite. 1995 , 11	7, 101-108		17
Ceramics and ceramic composites as high-temperature structural materials: challenges and opportunities. 1995 , 351, 511-527			19
1191 Element breaking rules in computational models for brittle fracture. 1995 , 3, 485-501			36
1190 Effective Spring Constant for Planar Arrays of Circular Cracks. 1995 , 4, 103-116			2
1189 Strength and toughness of ceramic composites at elevated temperatures. 1995 , 87-119			1

1188	Experimental Investigation of Tensile Fracture in Polyurethane Foams. 1995, 7, 258-264		1
1187	Crack-Bridging Force in Random Ductile Fiber Brittle Matrix Composites. 1995 , 121, 1315-1324		27
1186	Experimental and Numerical Investigation of Failure of Alumina under Plane Stress. 1995 , 121, 1218-122	25	2
1185	Processing SiC-particulate reinforced titanium-based metal matrix composites by shock wave consolidation. 1995 , 43, 235-250		18
1184	Crack bridging by SiC fibers during slow crack growth and the resultant fracture toughness of composites. 1995 , 33, 2067-2072		8
1183	Micro-mechanics and continuum damage mechanics. 1995 , 65, 437-456		29
1182	The structure of plasma sprayed MoSi2-Al2O3 microlaminate tubes. 1995 , 32, 179-183		5
1181	Crack velocities in freshwater and saline ice. 1996 , 101, 11541-11551		13
1180	Toughness and Subcritical Crack Growth in Nb/Nb3Al Layered Materials. 1996, 434, 243		5
1179	Oxide Laminates with High Strength and Work-of-Fracture. 1996 , 458, 477		3
1178	Cohesive Energy of Interfaces and Toughness of Fluorine-Doped Si3N4/SiC Composites. 1996 , 104, 17-2	2	5
1177	Time-dependent, environmentally assisted crack growth in nicalon-fiber-reinforced SiC composites at elevated temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996 , 27, 839-849	2.3	10
1176	Synthesis ofin situ TiB2/TiN ceramic matrix composites from dense BN-Ti and BN-Ti-Ni powder blends. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996 , 27, 2071-2079	2.3	37
1175	Quantitative stress mapping in alumina composites by optical fluorescence imaging. <i>Acta Materialia</i> , 1996 , 44, 625-641	8.4	18
1174	Mechanics and mechanisms of toughening of advanced ceramics. 1996 , 56, 978-989		19
1173	Mechanical fatigue in monolithic non-transforming ceramics. 1996 , 40, 265-331		21
1172	Structure and properties of ceramic composites based on ZrO2. 1996 , 32, 292-298		
1171	High-temperature deformation of ZrO2Al2O3/SiC whisker composites fabricated by two techniques. 1996 , 209, 111-115		8

1170	Resistance-curve toughening in ductile/brittle layered structures: Behavior in Nb/Nb3Al laminates. 1996 , 216, 80-90	4:	9
1169	Transformation toughening in nial observed via monte-carlo simulations. 1996 , 37, 193-196	6	
1168	Model experiments concerning abnormal grain growth in silicon nitride. 1996 , 16, 3-14	9	O
1167	Influence of residual stresses on the mechanical properties of a layered ceramic composite. 1996 , 16, 813-818	5	8
1166	Microcrack toughening in brittle materials containing weak and strong interfaces. <i>Acta Materialia</i> , 8.4	30	0
1165	Containerless processing of ceramics by aerodynamic levitation. 1996 , 221, 68-75	10	0
1164	Brittle intergranular failure in 2D microstructures: Experiments and computer simulations. <i>Acta Materialia</i> , 1996 , 44, 4003-4018	5	8
1163	Microwave absorbent: preparation, mechanical properties and r.fmicrowave conductivity of SiC (and/or mullite) fibre reinforced Nasicon matrix composites. 1996 , 31, 323-334	5.	4
1162	Effect of multilayer coating on mechanical properties of Nicalon-fibre-reinforced silicon carbide composites. 1996 , 31, 335-338	6	
1161	Effect of whisker orientation on the friction and wear behaviour of Al2O3/TiB2/SiClcomposites in sliding wear tests and in machining processes. 1996 , 201, 178-185	1:	1
1160	Fabrication, characterization and mechanical properties of SiC-whisker-reinforced Y-TZP composites. 1996 , 31, 3237-3243	4	
1159	Microstructural dependence of fracture energy and toughness of ceramics and ceramic composites versus that of their tensile strengths at 22 LC. 1996 , 31, 4503-4519	10	6
1158	The toughening behaviours of Cr3C2 particulate-reinforced Al2O3 composites. 1996 , 31, 4697-4704	5	
1157	A review of the J and I integrals and their implications for crack growth resistance and toughness in ductile fracture. 1996 , 81, 357-372	38	8
1156	An energy method to evaluate toughening in ceramics. 1996 , 15, 1986-1989	1	
1155	Fracture resistance characteristics of different-sized Al2O3-dispersed 3Y-PSZ composites. 1996 , 15, 1264-12	2663	
1154	On the interaction of internal cracks in polymethyl methacrylate. 1996 , 15, 219-221	1	
1153	Quantitative characterization of dislocation density in BiC crystals after high-pressure sintering in Si3N4 matrix. 1996 , 15, 500-504	1	

1152	Crystallization Behavior and Microstructure Evolution of (Al,Fe)2O3 Synthesized from Liquid Precursors. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1745-1755	38
1151	Stereological Observations of Platelet-Reinforced Mullite- and Zirconia-Matrix Composites. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 3273-3281	10
1150	Fracture Toughness of 2-D Woven SiC/SiC CVI-Composites with Multilayered Interphases. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 849-858	127
1149	Effect of interface design on high-temperature failure of laminated composites. 1996 , 11, 2035-2041	8
1148	Fracture Initiation and Progress in Wood Specimens Stressed in Tension. Part I. Clear Wood Specimens Stressed Parallel to the Grain. 1997 , 51, 479-484	21
1147	Diffraction of SH-Wave by Interacting Matrix Crack and an Inhomogeneity. 1997 , 64, 568-575	14
1146	Deflection of a Main Crack along a Weak Plane Consisting of a Group of Preexisting Cracks in a Silicon Nitride Ceramic. 1997 , 105, 1047-1049	
1145	R-Curve Determination of 3Y-PSZ by the Indentation Strength-in-Bending Method. 1997 , 105, 88-90	1
1144	LAYERED CERAMICS: Processing and Mechanical Behavior. 1997 , 27, 249-282	128
1143	Acoustic emission during tensile testing of SiC-fibre-reinforced BMAS glass-ceramic composites. 1997 , 28, 473-480	35
1142	Mechanical behaviour of borosilicate glass-copper composites. 1997 , 28, 861-867	15
1141	A new approach for toughening of ceramics. 1997 , 33, 237-240	54
1140	Mechanical Performance of ZrO2-Ni Functionally Graded Material by Powder Metallurgy. 1997 , 203-208	4
1139	Fracture Energy of GlassAlumina Interfaces via the Bimaterial Bend Test. <i>Journal of the American Ceramic Society</i> , 1997 , 80, 181-188	25
1138	Investigation of Al2O3/Cr3C2 composites prepared by pressureless sintering (Part 2). 1997 , 51, 211-215	15
	investigation of Alexander and alexander properties by pressure test since initial (i. d. e 2). The first 2 is	
1137	On crack-face bridging in a particulate ceramic-metal composite. 1997 , 16, 1827-1829	4
1137		2

1134 Crack arrest by internal compressive stress field induced by external tensile loading. 1997, 16, 1133-1134 Characterization of SiC/C (B)/SiC microcomposites by transmission electron microscopy. 1997, 32, 2969-2975 8 Experimental and computational models for three-dimensional crack-fiber interactions. 1997, 37, 445-451 1132 Experimental simulation of matrix cracking and debonding in a model brittle matrix composite. 6 1131 **1997**, 37, 126-131 Solidification paths and carbide morphologies in melt-processed MoSi2-SiC In Situ composites. 1130 5 Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1997, 28, 1889-1900^{2.3} Interfaces in MoSi2-SiC In Situ composites synthesized by melt processing. Metallurgical and 2.3 Materials Transactions A: Physical Metallurgy and Materials Science, 1997, 28, 1901-1911 Influence of processing on the microstructural development and flexure strength of Al2O3/SiC 1128 43 nanocomposites. 1997, 17, 865-872 Overview No. 125 Design and life prediction issues for high-temperature engineering ceramics and 8.4 1127 109 their composites. Acta Materialia, 1997, 45, 23-40 1126 TOUGHENING AND STRENGTHENING BY INCLINED LIGAMENT BRIDGING. Acta Materialia, 1997, 45, 2813-282011 1125 Interface shear properties and toughness of NiAl/Mo laminates. Acta Materialia, 1997, 45, 4333-4350 8.4 9 Analysis of bridging stress effect of polycrystalline alumina using double cantilever beam method. 8 1124 8.4 Acta Materialia, 1997, 45, 3445-3457 Fracture behaviour in metal fibre reinforced ceramics. Acta Materialia, 1997, 45, 3609-3623 8.4 1123 20 1122 Scaling properties of faults and their populations. 1997, 34, 273.e1-273.e9 3 1121 Creep and fatigue behavior of SiC fiber reinforced SiC composite at high temperatures. 1997, 225, 69-77 35 Laminated Nb/Nb3Al composites: effect of layer thickness on fatigue and fracture behavior. 1997, 1120 19 239-240, 393-398 Ni3Al intermetallic compound as second phase in Al2O3 ceramic composites. 1997, 239-240, 665-671 16 Wear resistance of Al2O3/TiB2 ceramic cutting tools in sliding wear tests and in machining 1118 42 processes. 1997, 72, 249-255 Preparation and properties of SiC fibre reinforced SiAION ceramic composite. Ceramics 8 1117 5.1 International, 1997, 23, 165-170

1116	Wear behavior and mechanisms of alumina-based ceramic tools in machining of ferrous and non-ferrous alloys. 1997 , 30, 807-813	19
1115	Failure mechanisms of a whisker-reinforced ceramic tool when machining nickel-based alloys. 1997 , 208, 220-225	47
1114	Study of abrasion behavior of an advanced Al2O3?TiC?Co ceramic. 1997 , 209, 153-159	13
1113	Radiation resistant ceramic matrix composites. 1997 , 245, 87-107	75
1112	Microscopy of Structural Ceramics. 1997 , 9, 195-217	44
1111	A FINITE ELEMENT TECHNIQUE TO SIMULATE THE STABLE SHAPE EVOLUTION OF PLANAR CRACKS WITH AN APPLICATION TO A SEMI-ELLIPTICAL SURFACE CRACK IN A BIMATERIAL FINITE SOLID. 1997 , 40, 905-917	10
1110	Crack-size dependence of overall responses of fiber-reinforced composites with matrix cracking. 1997 , 34, 3837-3857	5
1109	Transient fatigue-crack growth behavior following variable-amplitude loading in a monolithic silicon nitride ceramic. 1998 , 60, 303-313	8
1108	Microstructure and mechanical properties of three-dimensional carbon/silicon carbide composites fabricated by chemical vapor infiltration. 1998 , 36, 1051-1056	104
1107	The multi-fracture response of cross-ply ceramic composites. 1998 , 35, 5051-5083	11
1106	Nonlinear stress-strain curves for solids containing closed cracks with friction. 1998 , 46, 85-113	70
1105	Experimental observations on the mechanical properties of nanoscale ceramic/Teflon multilayers. 1998 , 54, 334-337	6
1104	Processing and Mechanical Behavior of Al2O3/ZrO2 Nanocomposites. 1998 , 33, 281-288	29
1103	Fracture toughness and R-Curve behavior of laminated brittle-matrix composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1998 , 29, 2483-2496	91
1102	Abrasive wear behaviour of SiC whisker-reinforced silicate matrix composites. 1998 , 223, 79-92	7
1101	The mechanical performance of DLC films on steel substrates. 1998 , 325, 163-174	135
1100	Microstructural characterization of Al2O3-SiC nanocomposites. 1998 , 18, 39-49	26
1099	Mechanical properties of toughened Al2O3⊠rO2⊞iN ceramics. 1998 , 18, 381-388	11

1098 Processing and mechanical properties of boron carbide sintered with TiC. 1998 , 18, 1521-1529		123
Stress, strain and elastic modulus behaviour of SiC/SiC composites during creep and cyclic fatigue 1097 1998 , 18, 1869-1878		12
Boundary stress and its effect on toughness in thin boundary layered and particulate composites: model analysis and experimental test on Y-TZP-based ceramic composites. 1998 , 18, 2035-2043	:	13
Rheological behavior of discontinuous SiC reinforced borosilicate glass composites at elevated temperatures. 1998 , 241, 129-136		3
1094 Fracture of multilayer oxide composites. 1998 , 241, 241-250		43
1093 Indentation precracking of Y-TZP: implications to R-curves and strength. 1998 , 245, 267-276		14
Dense in situ TiB2/TiN and TiB2/TiC ceramic matrix composites: reactive synthesis and properties. 1998 , 244, 127-137		87
Processing, toughness improvement and microstructural analysis of SiC platelet-reinforced Al2O3/Y-TZP nano-ceramic matrix composites. 1998 , 247, 75-80		10
Development of an advanced ceramic tool materialfunctionally gradient cutting ceramics. 1998 , 248, 125-131		71
1089 Static and cyclic fatigue in SiC whisker-reinforced silicon nitride composite. 1998 , 251, 113-120		8
On the quantification of bridging tractions during subcritical crack growth under monotonic and cyclic fatigue loading in a grain-bridging silicon carbide ceramic. <i>Acta Materialia</i> , 1998 , 46, 609-616	6 8.4	36
1087 Modelling of R-curve behaviour in ceramic/metal composites. <i>Acta Materialia</i> , 1998 , 46, 6381-639.	5 8.4	29
Simulation of nacre with TiC/Teflon multilayers and a study of their properties. <i>Surface and Coatings Technology</i> , 1998 , 103-104, 109-112	4.4	6
Fracture toughness testing and toughening mechanisms of some commercial cobalt-free hardfacing alloys. <i>Surface and Coatings Technology</i> , 1998 , 108-109, 377-384	4.4	15
Microstructural design and mechanical properties of a ternary partially stabilised zirconia alloy. <i>Ceramics International</i> , 1998 , 24, 45-51	5.1	2
Evaluation of crack-Growth resistance curve for a particulate ceramicMetal composite. <i>Ceramics International</i> , 1998 , 24, 579-582	5.1	
On the effects of friction, roughness and toughness on interfacial sliding in brittle composites. 1998 , 27, 77-89		9

1080	Processing and properties of copper dispersed alumina matrix nanocomposites. 1998 , 10, 267-272		17
1079	Transverse fracture toughness of unidirectional and hybrid ceramic matrix composites. 1998,		
1078	Ceramic-Matrix Composites: An Integrated Interdisciplinary Curriculum. 1998 , 87, 539-544		3
1077	The Basic Elementary Particle as a Martensite Nucleus. 1998 , 9, 43-46		
1076	Design and Life Prediction Issues for High-Temperature Engineering Ceramics and Their Composites. 1998 , 35-64		
1075	Design of ceramic laminates for structural applications. 1998 , 14, 483-495		24
1074	Fractography and fracture mechanics property assessment of advanced structural ceramics. 1999 , 44, 165-216		33
1073	Structural Properties of Yttria-stabilized Zirconia Thin Films Grown by Pulsed Laser Deposition. 1999 , 14, 1329-1336		14
1072	Mechanochemically synthesized NbC cermets: Part II. Mechanical properties. 1999 , 14, 4285-4290		3
1071	Crack-bridging Processes and Fracture Resistance of a Discontinuous Fiber-reinforced Brittle Matrix Composite. 1999 , 14, 1316-1324		8
1070	Interface adhesion: effects of plasticity and segregation. <i>Acta Materialia</i> , 1999 , 47, 4093-4113	3.4	159
1069	Interaction forces between ⊞lumina fibres in aqueous electrolyte measured with an atomic force microscope. 1999 , 146, 123-137		30
1068	Dense high-temperature ceramics by thermal explosion under pressure. 1999 , 19, 2381-2393		66
1067	Anisotropic Properties in Hot Pressed Silicon NitrideBilicon Carbide Platelet Reinforced Composites. 1999 , 19, 2375-2379		4
1066	A comparison of MoSi2 matrix composites with other silicon-base composite systems. 1999 , 261, 53-63		16
1065	Fracture mechanism of FeAl matrix composites with discontinuous ceramic reinforcements. 1999 , 265, 240-245		8
1064	Mechanical properties of alumina fiber/glass matrix composites with and without a tin dioxide interface. 1999 , 268, 47-54		19
1063	Optical microscopy of a 3-D woven SiC/SiC-based composite. 1999 , 59, 429-437		17

1062	Monotonic tension, fatigue and creep behavior of SiC-fiber-reinforced SiC-matrix composites: a review. 1999 , 59, 833-851		147
1061	Wave scattering from cracks and imperfectly bonded inhomogeneities in advanced materials. 1999 , 31, 187-195		15
1060	The effect of whisker orientation in SiC whisker-reinforced Si3N4 ceramic matrix composites. 1999 , 19, 1903-1909		30
1059	Microstructure and Fracture Toughness of Si3N4 Ceramics: Combined Roles of Grain Morphology and Secondary Phase Chemistry. <i>Journal of the American Ceramic Society</i> , 1999 , 82, 1857-1867	3.8	123
1058	Dynamic interaction between a matrix crack and a circular inhomogeneity with a distinct interphase. 1999 , 36, 517-531		15
1057	Mechanisms of fatigue-crack propagation in ductile and brittle solids. 1999 , 100, 55-83		606
1056	The effect of microstructure on fracture toughness and fatigue crack growth behavior in Etitanium aluminide based intermetallics. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1999 , 30, 563-577	2.3	73
1055	Fracture toughness of zirconia lumina composites. 1999 , 17, 11-20		54
1054	Low amplitude cyclic deformation behavior of single crystalline silicon. 1999 , 41, 109-115		2
1053	Materials Science of Carbides, Nitrides and Borides. 1999 ,		24
1052	Strength and Thermal Strength Resistance of Refractory Compounds. 1999, 305-322		
1051	Large-scale atomistic simulations of dynamic fracture. 1999 , 1, 56-65		24
1050	Residual Stresses in Galvanizing. 1999 , 14, 413-426		2
1049	Continuous-fibre CMC fabrication using pre-impregnated sheets. 1999 , 30, 583-586		6
1048	Metal-matrix interpenetrating phase composite and its in situ fracture observation. 1999 , 40, 156-160		10
1047	Thermodynamic Considerations on the in-situ Formed Interface Structure Observed in Si-Ti-C-O-Fiber/SiO2-Glass Composite 1999 , 107, 84-88		1
	Micromechanical Modeling of FRCs Containing Matrix Cracks and Partially Debonded Fibers. 1999,		
1046	121, 445-452		

1044 Fiber/matrix interface properties of hybrid ceramic matrix composites. **1999**,

1043	Model analysis of boundary residual stress and its effect on toughness in thin boundary layered yttria-stabilized tetragonal zirconia polycrystalline ceramics. 2000 , 15, 727-732	22
1042	Stress bridging in a heterogeneous material. 2000 , 67, 1-20	7
1041	Mixed-mode, high-cycle fatigue-crack growth thresholds in TiBAl掛V: II. Quantification of crack-tip shielding. 2000 , 67, 229-249	27
1040	Preparation of ⊞lumina coated carbide tools by the sol-gel process. 2000 , 288, 19-25	27
1039	The mechanical behaviour of glass and glassBeramic matrix composites. 2000 , 278, 187-194	11
1038	Effect of thermal residual stress on the high temperature toughening behaviour of TiB2/SiCw composites. 2000 , 98, 292-298	10
1037	Determination of fiber bridging stress profile by debond length measurement. <i>Acta Materialia</i> , 8.4	5
1036	R-curve behavior of BaTiO3- and PZT ceramics under the influence of an electric field applied parallel to the crack front. <i>Acta Materialia</i> , 2000 , 48, 4099-4113	61
1035	Role of the grain-boundary phase on the elevated-temperature strength, toughness, fatigue and creep resistance of silicon carbide sintered with Al, B and C. <i>Acta Materialia</i> , 2000 , 48, 4599-4608	91
1034	Notch effect of surface compression and the toughening of graded Al2O3/TiC/Ni materials. <i>Acta Materialia</i> , 2000 , 48, 767-775	9
1033	High-temperature cyclic fatigue-crack growth behavior in an in situ toughened silicon carbide. <i>Acta Materialia</i> , 2000 , 48, 659-674	38
1032	High-temperature fracture toughness of SiCMo5(Si,Al)3C composites. 2000 , 20, 1385-1389	6
1031	Crack-location-dependent R-curve behavior in Si3N4. 2000 , 20, 1339-1344	7
1030	Alumina ceramics toughened by a piezoelectric secondary phase. 2000 , 20, 1687-1690	52
1029	Bridging stresses and R-curves in ceramic/metal composites. 2000 , 20, 2261-2273	43
1028	Tensile behaviour of magnesia carbon refractories. 2000 , 20, 2239-2248	33
1027	Effect of BaTiO3 addition on structures and mechanical properties of 3Y-TZP ceramics. 2000 , 20, 1153-1158	30

Reactive synthesis of ceramic matrix composites under pressure. <i>Ceramics International</i> , 2000 , 26, 699-7&7.	27
Anomalous cyclic fatigue-crack propagation behavior of small cracks in monolithic, grain-bridging ceramics. <i>Ceramics International</i> , 2000 , 26, 721-725	10
1024 Ca-PSZ prepared via polymeric solgel route. <i>Ceramics International</i> , 2000 , 26, 215-220 5.1	14
The concept of a strong interface applied to SiC/SiC composites with a BN interphase. <i>Acta</i> Materialia, 2000 , 48, 4609-4618	91
1022 R-curve behavior of TiC particle reinforced Al2O3 composites. 2000 , 43, 27-31	20
1021 The air oxidation of yttrium ion implanted zircaloy-4 at 500LC. 2000 , 160, 49-53	21
1020 Numerical Analysis of Stress Concentration for Brittle Matrix Composites. 2000 , 7, 39-49	4
1019 Mechanics and mechanisms of fatigue damage and crack growth in advanced materials. 2000 , 37, 311-329	82
1018 Formation of microstructure in bauxite ceramics. 2000 , 41, 75-79	1
1017 Fatigue in Ceramic Matrix Composites. 2000 , 163-219	3
The Fracture Characteristics, Damage Tolerance, and Reliability of Metal/Ceramic Multilayers in Structural and Electronic Applications. 2000, 285-320	2
The Fracture Characteristics, Damage Tolerance, and Reliability of Metal/Ceramic Multilayers in	
The Fracture Characteristics, Damage Tolerance, and Reliability of Metal/Ceramic Multilayers in Structural and Electronic Applications. 2000 , 285-320	2
The Fracture Characteristics, Damage Tolerance, and Reliability of Metal/Ceramic Multilayers in Structural and Electronic Applications. 2000 , 285-320 Reaction sintering and mechanical properties of B4C with addition of ZrO2. 2000 , 15, 2431-2436 Estimation of interfacial properties from hysteretic energy loss in unidirectional ceramic matrix	37
The Fracture Characteristics, Damage Tolerance, and Reliability of Metal/Ceramic Multilayers in Structural and Electronic Applications. 2000, 285-320 1015 Reaction sintering and mechanical properties of B4C with addition of ZrO2. 2000, 15, 2431-2436 1014 Estimation of interfacial properties from hysteretic energy loss in unidirectional ceramic matrix composites. 2000, 9, 161-173 A Theory for Elastic Potential Energy Change and Applied Stresses Accompanying Phase	37
The Fracture Characteristics, Damage Tolerance, and Reliability of Metal/Ceramic Multilayers in Structural and Electronic Applications. 2000, 285-320 Reaction sintering and mechanical properties of B4C with addition of ZrO2. 2000, 15, 2431-2436 Estimation of interfacial properties from hysteretic energy loss in unidirectional ceramic matrix composites. 2000, 9, 161-173 A Theory for Elastic Potential Energy Change and Applied Stresses Accompanying Phase Transformation. 2000, 16, 169-176	2 37 26
The Fracture Characteristics, Damage Tolerance, and Reliability of Metal/Ceramic Multilayers in Structural and Electronic Applications. 2000, 285-320 1015 Reaction sintering and mechanical properties of B4C with addition of ZrO2. 2000, 15, 2431-2436 1014 Estimation of interfacial properties from hysteretic energy loss in unidirectional ceramic matrix composites. 2000, 9, 161-173 1013 A Theory for Elastic Potential Energy Change and Applied Stresses Accompanying Phase Transformation. 2000, 16, 169-176 1012 Structural reliability of alumina-, feldspar-, leucite-, mica- and zirconia-based ceramics. 2000, 28, 529-35	2 37 26 318

1008	Ambient to high temperature fracture toughness and fatigue-crack propagation behavior in a Moll 2SiB.5B (at.%) intermetallic. 2001 , 9, 319-329		108
1007	FRACTURE MECHANICS BASED BENDING FAILURE ANALYSIS FOR FIBER REINFORCED LIGHT-WEIGHT CONCRETE PANEL CONSIDERING CRACK DISPERSION EFFECT. 2001 , 66, 37-42		
1006	Large-scale molecular dynamics simulations of materials on parallel computers. 2001,		
1005	Friction and wear behaviour of Al2O3/TiB2/SiCw ceramic composites at temperatures up to 800°C. Ceramics International, 2001, 27, 135-141	5.1	47
1004	Ultrasonic erosion of whisker-reinforced ceramic composites. <i>Ceramics International</i> , 2001 , 27, 755-760	5.1	10
1003	Failure of metalleramic composites with spherical inclusions1Dedicated to Prof. Fritz Aldinger in honour of his 60th birthday.1. <i>Acta Materialia</i> , 2001 , 49, 3177-3187	8.4	26
1002	Mechanical properties of 3D fiber reinforced C/SiC composites. 2001 , 300, 196-202		80
1001	High-cycle fatigue and durability of polycrystalline silicon thin films in ambient air. 2001 , 94, 177-188		136
1000	3Y-TZP ceramics toughened by Sr2Nb2O7 secondary phase. 2001 , 21, 477-481		30
999	High-performance SiC-fibre reinforced Bialon CMCs prepared from heat-treated Nicalon fibres. 2001 , 21, 639-647		14
998	Effect of annealing treatments on microstructure and mechanical properties of liquid-phase-sintered silicon carbide. 2001 , 21, 621-632		78
997	Effects of chemical vapor infiltration atmosphere on the mechanical properties and microstructure of carbon fibers. 2001 , 21, 809-816		16
996	On the local crack resistance of Al2O3IIiC composites evaluated by direct indentation method. 2001 , 21, 941-946		14
995	The influence of TiC-particle-size on the fracture toughness of Al2O3B0 wt.%TiC composites. 2001 , 21, 2377-2381		26
994	The fracture toughness behaviour of interpenetrating phase composites. 2001 , 43, 1771-1791		38
993	Characterization of R-curve behavior in Si3N4-based ceramics. 2001 , 318, 42-49		7
992	Improved Resistance to Damage of Silicon Carbide-Whisker-Reinforced Silicon Nitride-Matrix Composites by Whisker-Oriented Alignment. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 161-164	3.8	15
991	Evolution of Impedance Spectra during Debonding and Pullout of Single Steel Fibers from Cement. Journal of the American Ceramic Society, 2001, 84, 740-746	3.8	7

(2002-2001)

990	Toughened Oxide Composites Based on Porous Alumina-Platelet Interphases. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 767-774	3.8	18
989	The influence of mixing ratio on the toughening mechanisms of a hand-mixed zinc phosphate dental cement. 2001 , 17, 14-20		18
988	Particle dispersed ceramic composite reinforced with rare earth additions. 2001, 19, 85-88		17
987	Synthesis of Cu dispersed Al2O3 nanocomposites by high energy ball milling and pulse electric current sintering. 2001 , 44, 293-297		14
986	Formation and Bonding Mechanism of Solution Derived ?-Al2O3 Coating on Carbide Substrate. 2001 , 17, 279-285		1
985	Transformation behavior of yttria stabilized tetragonal zirconia polycrystal l iB2 composites. 2001 , 16, 2158-2169		22
984	A Consistent Rationale for the Superior Strength and Ultra-Hardness of Ceramic Nano-Composite Coatings. 2001 , 697, 121		6
983	Towards the understanding of mechanical properties of super- and ultrahard nanocomposites. 2002 , 20, 650		221
982	Advances in the Development of Silicon Nitride and Other Ceramics. 2002, 67		7
981	Interactions between toughening mechanisms: Transformation toughening versus plastic deformation. 2002 , 17, 2921-2928		10
980	Microstructure and Mechanical Properties of Sol-Gel Derived Mullite Containing Needle-Like Grains. 2002 , 61, 122-124		2
979	Thermomechanical Behavior of Plasma Sprayed Thermal Barrier Coatings. 397-408		3
978	Influence of Fiber Volume Fraction on the Mechanical and Thermal Properties of Unidirectionally Aligned Short-Fiber-Reinforced SiC Composites 2002 , 110, 985-989		15
977	Atomistic Aspects of Crack Propagation in Brittle Materials: Multimillion Atom Molecular Dynamics Simulations. <i>Annual Review of Materials Research</i> , 2002 , 32, 377-400	12.8	148
976	Silicon Nitride Ceramics. 2002 , 47-167		116
975	Silicon Carbide 🖪 Survey of Synthetic Approaches, Properties and Applications. 2002 , 59-135		44
974	The fracture toughness and toughening mechanisms of nickel-base wear materials. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 33-56	2.3	30
973	Some observations of the influence of Eferrite content on the hardness, galling resistance, and fracture toughness of selected commercially available iron-based hardfacing alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 3403-3419	2.3	17

972	Energy absorption during failure of layered metal foam/ceramic laminates. 2002, 323, 260-269		11
971	Microstructure and mechanical characteristics of laser-alloyed alumina ceramics. 2002, 332, 167-173		24
970	Evaluation of fracture toughness of ceramic matrix composites using small specimens. 2002 , 61-62, 733-7	'38	3
969	Microstructure and mechanical properties of hot-pressed B4C/(W,Ti)C ceramic composites. Ceramics International, 2002, 28, 425-430	.1	69
968	Interphase effects on the bend strength and toughness of an oxide fibre/oxide matrix composite. Ceramics International, 2002, 28, 565-573	.1	9
96 7	Fabrication and characterization of SiCf/SiC composite by CVI using the whiskering process. 2002 , 307-311, 1227-1231		12
966	The martensitic transformation in ceramics to role in transformation toughening. 2002, 47, 463-557		344
965	Impedance spectroscopy of fiber-reinforced cement composites. 2002 , 24, 457-465		60
964	On the fracture and fatigue properties of Mo-Mo3Si-Mo5SiB2 refractory intermetallic alloys at ambient to elevated temperatures (25 °C to 1300 °C). Metallurgical and Materials Transactions A: 2. Physical Metallurgy and Materials Science, 2003, 34, 225-239	.3	64
963	Interface crack around circular inclusion: SIF, kinking, debonding energetics. 2003, 70, 285-307		22
962	Transformation zones, crack shielding, and crack-growth resistance of Ce-TZP/alumina composite in mode II and combined mode II and mode I loading. 2003 , 70, 2569-2585		4
961	Crack blunting, crack bridging and resistance-curve fracture mechanics in dentin: effect of hydration. 2003 , 24, 5209-21		166
960	Microstructures and mechanical properties of Sr2Nb2O7-toughened 3Y-TZP ceramics. <i>Ceramics International</i> , 2003 , 29, 635-640	.1	5
959	Effective toughness of heterogeneous brittle materials. 2003 , 22, 743-749		62
958	State of the art and perspectives for oxide/oxide composites. 2003, 7, 211-221		33
957	Strength characteristics of toughened ceramics containing contact-induced small surface cracks. 2003 , 344, 132-139		5
956	Mechanical properties of several advanced Tyranno-SA fiber-reinforced CVI-SiC matrix composites. 2003 , 345, 28-35		49
955	Fracture toughness of alumina and ZTA ceramics: microstructural coarsening effects. 2003 , 143-144, 148-152		96

954	A numerical assessment of the durability of thermal barrier systems that fail by ratcheting of the thermally grown oxide. <i>Acta Materialia</i> , 2003 , 51, 3807-3820	8.4	82	
953	Thermal shock resistance of yttria-stabilized zirconia with Palmqvist indentation cracks. 2003 , 23, 107-11	4	24	
952	Densification and mechanical properties of mullite/TiO2-coated B4C composites. 2003 , 23, 1485-1490		11	
951	Effect of the particle size distribution of spinel on the mechanical properties and thermal shock performance of MgOEpinel composites. 2003 , 23, 3079-3087		27	
950	Effect of Carbon and Silicon Carbide/Carbon Interlayers on the Mechanical Behavior of Tyranno-SA-Fiber-Reinforced Silicon Carbide-Matrix Composites. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 851-856	3.8	23	
949	Combined mode-I and mode-II fracture of ceramics with crack-face grain and/or whisker bridging. 2003 , 83, 745-764			
948	Wet erosion damage of Cr3C2/Al2O3 composite. 2003 , 18, 1162-1167			
947	Effect of microcracking on electric-field-induced stress intensity factors in dielectric ceramics. 2003 , 83, 277-294		2	
946	Plasticity in Ni59Zr20Ti16Si2Sn3 metallic glass matrix composites containing brass fibers synthesized by warm extrusion of powders. 2003 , 83, 2312-2314		74	
945	Flexural strength of melt-processed YBallul bulk superconductors with Ag addition measured at 77 K. 2003 , 16, 1115-1119		30	
944	Preparation of Al2O3-ZrO2-Ni Nano-Composites by Spark Plasma Sintering. 2003, 249, 5-8		3	
943	Fatigue of Brittle Materials. 2003 , 359-388		2	
942	Effect of Reinforcements on Mechanical and Thermal Properties of SiC Short-Fibre-Reinforced SiC Composites. 2004 , 13, 096369350401300		1	
941	Intergranular films in metal-ceramic composites and the promotion of metal particle occlusion. 2004 , 95, 266-270		15	
940	Multiphase Tailoring and Design of an Advanced Ceramic Material. 2004, 259-260, 112-116		4	
939	Fracture and deformation in brittle solids: A perspective on the issue of scale. 2004 , 19, 22-29		72	
938	Nanocrystalline- Matrix Ceramic Composites for Improved Fracture Toughness. 2004 , 29, 22-27		111	
937	Effects of Aging on the Toughness of Human Cortical Bone: A Study from Nano to Macro Size-Scales. 2004 , 844, 1			

936	Improvement of Toughness of Y-ZrO2: Role of Dopant Distribution. 2004 , 264-268, 817-820		3
935	Compositional Design of Multiphase Composite Ceramic Tool Material Based on the Thermal Shock Resistance and Its Application. 2004 , 471-472, 21-25		1
934	Creep and Fatigue Behavior in Hi-Nicalon-Fiber-Reinforced Silicon Carbide Composites at High Temperatures. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 117-128	3.8	57
933	High-Temperature Strength and Creep Behavior of Melt-Infiltrated SiC-MoBSi3CI Composites. Journal of the American Ceramic Society, 2004 , 82, 2276-2278	3.8	7
932	Mode I Fracture Toughness of a Small-Grained Silicon Nitride: Orientation, Temperature, and Crack Length Effects. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 2633-2640	3.8	17
931	Use of a Crack-Bridging Single-Fiber Pullout Test to Study Steel Fiber/Cementitious Matrix Composites. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 3513-3520	3.8	11
930	R-Curve Behavior and Crack-Closure Stresses in Barium Titanate and (Mg,Y)-PSZ Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 353-361	3.8	91
929	Transformation Toughening in Zirconia-Containing Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 461-487	3.8	1180
928	Fractal Analysis of Toughening Behavior in 3BaO.5SiO2Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 545-552	3.8	26
927	Effect of Fiber Bridging Stress on the Fracture Resistance of Silicon-Carbide-Fiber/Zircon Composites. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 1207-1214	3.8	9
926	Scratch Damage in Zirconia Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 1428-1432	3.8	10
925	Toughening by Multiple Mechanisms in Ceramic-Matrix Composites with Discontinuous Elongated Reinforcements. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2006-2016	3.8	13
924	Densification and Mechanical Properties of B4C with Al2O3 as a Sintering Aid. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2863-2865	3.8	123
923	High-Temperature Mechanical Properties of SiCMo5(Si,Al)3C Composites. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 413-19	3.8	9
922	Mechanical Properties of Three-Layered Monolithic Silicon Nitride Bibrous Silicon Nitride/Boron Nitride Monolith. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 2840-2842	3.8	5
921	Effect of Oxidation on Mechanical Properties of Fibrous Monolith Si3N4/BN at Elevated Temperatures in Air. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 3123-3125	3.8	5
920	High-Temperature Creep and Microstructural Evolution of Chemically Vapor-Deposited Silicon Carbide Fibers. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 407-413	3.8	11
919	Quantitative Analysis of Crack Shielding Degradation During Cyclic Fatigue of Alumina. <i>Journal of the American Ceramic Society</i> , 2004 , 88, 172-178	3.8	11

(2004-2004)

918	Preparation of 🛱 lumina Platelets by Laser Scanning. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1606-1608	3.8	13
917	Process and Mechanical Properties of in Situ Silicon Carbide-Nanowire-Reinforced Chemical Vapor Infiltrated Silicon Carbide/Silicon Carbide Composite. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1720-1725	3.8	47
916	Contact-damage-resistant ceramic/single-wall carbon nanotubes and ceramic/graphite composites. 2004 , 3, 539-44		341
915	Crack path simulation and identification in polycrystalline alumina. 2004, 50, 127-130		4
914	In-situ formation of Ni-alumina nanocomposite during laser processing. 2004 , 50, 1237-1240		8
913	Strength, fracture toughness and microstructure of a selection of all-ceramic materials. Part I. Pressable and alumina glass-infiltrated ceramics. 2004 , 20, 441-8		283
912	Strength, fracture toughness and microstructure of a selection of all-ceramic materials. Part II. Zirconia-based dental ceramics. 2004 , 20, 449-56		573
911	Preparation of interpenetrating ceramicFhetal composites. 2004 , 24, 3399-3408		105
910	Transformation behaviour of tetragonal zirconia: role of dopant content and distribution. 2004 , 366, 338-347		99
909	Mechanical properties of fibrous monolithic Si3N4/BN ceramics with different cell boundary thicknesses. 2004 , 24, 699-703		16
908	MicrostructureBoughnessWear relationship of tetragonal zirconia ceramics. 2004 , 24, 2031-2040		96
907	Partition of unity enrichment for bimaterial interface cracks. 2004 , 59, 1075-1102		191
906	Toughening of dental glass ionomer cements with reactive glass fibres. 2004 , 25, 5217-25		27
905	Fracture behaviour of 2D-weaved, silicaBilica continuous fibre-reinforced, ceramichatrix composites (CFCCs). 2004 , 71, 2589-2605		49
904	Material-independent crack arrest statistics. 2004 , 52, 1651-1669		22
903	Densification of SiCf/SiC composite by the multi-step of whisker growing and matrix filling. 2004 , 329-333, 530-533		18
902	Monazite coatings on short alumina fibers using layer-by-layer assembly technique. 2004 , 364, 324-332		10
901	Fracture behavior of laminated SiC composites. <i>Ceramics International</i> , 2004 , 30, 697-703	5.1	20

900	Microstructures and mechanical properties of 8Y-FSZ ceramics with BaTiO3 additive. <i>Ceramics International</i> , 2004 , 30, 2269-2275	11
899	Crack arrest in Si3N4-based layered composites with residual stress. 2004 , 64, 1947-1957	49
898	On the origin of the toughness of mineralized tissue: microcracking or crack bridging?. 2004 , 34, 790-8	191
897	Effect of aging on the toughness of human cortical bone: evaluation by R-curves. 2004 , 35, 1240-6	187
896	Microstructure and properties stability of Al-alloyed MoSi2 matrix composites. 2004 , 12, 225-233	13
895	Deformation behavior of a Ni59Zr20Ti16Si2Sn3 metallic glass matrix composite reinforced by copper synthesized by warm extrusion of powders. 2004 , 337, 15-20	19
894	Y-TZP ceramics with optimized toughness: new results. 2004 , 379, 228-232	31
893	CoAl2O3 nanocomposites powder prepared by electroless plating. 2004 , 58, 200-204	37
892	Mechanical properties of alumina-zirconia composites for ceramic abutments. 2004 , 7, 643-649	100
891	Effect of Thermal Residual Stress on Matrix Cracking Strain and Fracture Behavior of the Sintered SiC Fiber Reinforced SiO2-Mullite Composites. 2004 , 68, 172-180	
890	Si3O4 and Al2O3 based ceramic. 2005 , 23, 91	4
889	Preparation and performance of an advanced multiphase composite ceramic material. 2005 , 25, 605-611	19
888	Pressureless sintering and tribological properties of WCIrO2 composites. 2005, 25, 1603-1610	50
887	Preparation of Al2O3@rO2Ni nanocomposite by pulse electric current and pressureless sintering. 2005 , 25, 3125-3133	20
886	Failure mechanisms of TiB2 particle and SiC whisker reinforced Al2O3 ceramic cutting tools when machining nickel-based alloys. 2005 , 45, 1393-1401	60
885	Effects of pyrolysis processes on the microstructures and mechanical properties of Cf/SiC composites using polycarbosilane. 2005 , 390, 154-158	102
884	Structure and magnetic properties of Co/CoO and Co/Si coreEhell cluster assemblies prepared via gas-phase. 2005 , 6, 18-26	75
883	Pretreatment effect on the synthesis of Ag-coated Al2O3 powders by electroless deposition process. <i>Surface and Coatings Technology</i> , 2005 , 195, 333-337	24

882	Wear-resistant ultra-fine-grained ceramics. Acta Materialia, 2005, 53, 271-277	8.4	74
881	Apparent fracture toughness of Si3N4-based laminates with residual compressive or tensile stresses in surface layers. <i>Acta Materialia</i> , 2005 , 53, 289-296	8.4	103
880	Dynamic mechanical and fracture properties of an infiltrated TiC-1080 steel cermet. 2005 , 42, 697-715		16
879	Microstructure and mechanical properties of hot-pressed Al2O3/TiC ceramic composites with the additions of solid lubricants. <i>Ceramics International</i> , 2005 , 31, 249-256	5.1	61
878	Effects of SiC sub-layer on mechanical properties of Tyranno-SA/SiC composites with multiple interlayers. <i>Ceramics International</i> , 2005 , 31, 525-531	5.1	4
877	Effects of particle size and matrix grain size and volume fraction of particles on the toughening of ceramic composite by thermal residual stress. <i>Ceramics International</i> , 2005 , 31, 537-542	5.1	25
876	A fracture mechanics and mechanistic approach to the failure of cortical bone. 2005 , 28, 345-371		104
875	Fiber-Reinforced Ceramic-Matrix Composites with a Polysiloxane/Boron-Derived Matrix. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1831-1840	3.8	29
874	Transformation Toughening in Solfiel-Derived Alumina-Zirconia Composites. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2056-2060	3.8	31
873	A Strong and Damage-Tolerant Oxide Laminate. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2421	-3.824	32
872	R-Curve Behavior of Silicon Nitridellitanium Nitride Composites. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2681-2684	3.8	29
871	Preparation, Microstructure, and Mechanical Properties of Silicon Carbide Dysprosia Composites. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2997-3008	3.8	6
870	Interfacial Bond Strength in SiC/C/SiC Composite Materials, As Studied by Single-Fiber Push-Out Tests. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 965-978	3.8	63
869	Post-Hot-Pressing and High-Temperature Bending Strength of Reaction-Bonded Silicon Nitride-Molybdenum Disilicide and Silicon Nitride-Tungsten Silicide Composites. <i>Journal of the</i> <i>American Ceramic Society</i> , 2005 , 81, 1344-1348	3.8	5
869 868	Post-Hot-Pressing and High-Temperature Bending Strength of Reaction-Bonded Silicon Nitride-Molybdenum Disilicide and Silicon Nitride-Tungsten Silicide Composites. <i>Journal of the</i>	3.8 3.8	5 63
	Post-Hot-Pressing and High-Temperature Bending Strength of Reaction-Bonded Silicon Nitride-Molybdenum Disilicide and Silicon Nitride-Tungsten Silicide Composites. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1344-1348 Creep and Fatigue Behavior in an Enhanced SiC/SiC Composite at High Temperature. <i>Journal of the</i>		
868	Post-Hot-Pressing and High-Temperature Bending Strength of Reaction-Bonded Silicon Nitride-Molybdenum Disilicide and Silicon Nitride-Tungsten Silicide Composites. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1344-1348 Creep and Fatigue Behavior in an Enhanced SiC/SiC Composite at High Temperature. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2269-2277 Toughness-Curve Behavior of an Alumina-Mullite Composite. <i>Journal of the American Ceramic</i>	3.8	63

864	Crack-Growth Resistance-Curve Behavior in Silicon Carbide: Small versus Long Cracks. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2253-2261	3.8	52
863	Toughening of Mullite/Cordierite Laminated Composites by Transformation Weakening of Ecristobalite Interphases. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1521-1528	3.8	18
862	Microstructural Coarsening of Zirconia-Toughened Alumina Composites. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1958-1963	3.8	41
861	Improved Sliding-Wear Resistance in In Situ-Toughened Silicon Carbide. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3531-3534	3.8	41
860	High toughness in laminated SiC ceramics from aqueous tape casting. 2005 , 52, 381-385		40
859	Single-Crystal SiC Nanowires with a Thin Carbon Coating for Stronger and Tougher Ceramic Composites. 2005 , 17, 1519-1523		215
858	Self-lubricating behaviors of Al2O3/TiB2 ceramic tools in dry high-speed machining of hardened steel. 2005 , 25, 1073-1079		76
857	Composition design and mechanical properties of mixed (Ce,Y)-TZP ceramics obtained from coated starting powders. 2005 , 25, 3109-3115		29
856	Ultrastructural examination of dentin using focused ion-beam cross-sectioning and transmission electron microscopy. 2005 , 36, 672-80		85
855	Mechanistic aspects of fracture and R-curve behavior in human cortical bone. 2005 , 26, 217-31		26-
			267
854	Fracture of Ti-Al3Ti metal-intermetallic laminate composites: Effects of lamination on resistance-curve behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 3217-3236	2.3	54
8 ₅₄	Fracture of Ti-Al3Ti metal-intermetallic laminate composites: Effects of lamination on resistance-curve behavior. Metallurgical and Materials Transactions A: Physical Metallurgy and		
	Fracture of Ti-Al3Ti metal-intermetallic laminate composites: Effects of lamination on resistance-curve behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 3217-3236		
853	Fracture of Ti-Al3Ti metal-intermetallic laminate composites: Effects of lamination on resistance-curve behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 3217-3236 Phase diagram calculation and fabrication of multi-component zirconia-based ceramics. 2005 , 9, 358-3		54
8 ₅₃	Fracture of Ti-Al3Ti metal-intermetallic laminate composites: Effects of lamination on resistance-curve behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 3217-3236 Phase diagram calculation and fabrication of multi-component zirconia-based ceramics. 2005 , 9, 358-3 Formation of Polycrystalline Boron Carbide B4C with Elevated Fracture Toughness. 2005 , 44, 75-83		54 8
853 852 851	Fracture of Ti-Al3Ti metal-intermetallic laminate composites: Effects of lamination on resistance-curve behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 3217-3236 Phase diagram calculation and fabrication of multi-component zirconia-based ceramics. 2005 , 9, 358-3 Formation of Polycrystalline Boron Carbide B4C with Elevated Fracture Toughness. 2005 , 44, 75-83 Study of the microstructure of ceramic matrix composites in the SiC - Cf system. 2005 , 46, 7-11		54 8 2
853 852 851 850	Fracture of Ti-Al3Ti metal-intermetallic laminate composites: Effects of lamination on resistance-curve behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 3217-3236 Phase diagram calculation and fabrication of multi-component zirconia-based ceramics. 2005 , 9, 358-3 Formation of Polycrystalline Boron Carbide B4C with Elevated Fracture Toughness. 2005 , 44, 75-83 Study of the microstructure of ceramic matrix composites in the SiC - Cf system. 2005 , 46, 7-11 Structural features of a carbon plastic material infiltrated with molten silicon. 2005 , 46, 419-422		54 8 2

846	Toughening of yttria-stabilised tetragonal zirconia ceramics. 2005 , 50, 239-256		233
845	Influence of surface and heat treatments on the flexural strength of Y-TZP dental ceramic. 2005 , 33, 9-18		337
844	Martensitic transformation in zirconia containing ceramics and its applications. 2005 , 9, 313-318		59
843	High-Temperature Materials and Hot Structures. 2005 , 499-580		4
842	Tailoring the Composition of Self-Reinforced Silicon Nitride Ceramics to Enhance Mechanical Behavior. 2005 , 327-335		1
841	Fracture Mechanics of Ceramics. 2005 ,		8
840	Pseudo-semi-solid thixoforging of cup shell with Al/Al2O3. 2006 , 16, 772-775		11
839	Cortical Bone Fracture. 2006 ,		7
838	Mechanical Properties of Ceramics. 2006,		
837	Fracture and Ageing in Bone: Toughness and Structural Characterization. 2006 , 42, 225-232		30
836	Toughening of SiC with Ti3SiC2 Particles. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 633-637	3.8	14
835	Microstructure and Properties of Spark Plasma-Sintered ZrO2IIrB2 Nanoceramic Composites. Journal of the American Ceramic Society, 2006 , 89, 2405-2412	3.8	41
834	SiC whisker-toughened SiC oxidation protective coating for carbon/carbon composites. 2006 , 44, 602-609	5	61
833	SiC whisker-toughened MoSi2BiCBi coating to protect carbon/carbon composites against oxidation. 2006 , 44, 1866-1869		27
832	Differential sintering of Al2O3/ZrO2Ni composite, during pulse electric current sintering. <i>Ceramics International</i> , 2006 , 32, 241-247	5.1	11
831	Toughening and strengthening of advanced ceramics with rare earth additives. <i>Ceramics International</i> , 2006 , 32, 423-429	5.1	24
8 ₃ 1		5.1	² 44

828	Wear mechanisms of Al2O3/TiC/Mo/Ni ceramic wire-drawing dies. 2006, 424, 347-354	8
827	Silicon carbide whisker reinforced silicon carbide composites by chemical vapor infiltration. 2006 , 428, 346-350	27
826	Self-lubrication of sintered ceramic tools with CaF2 additions in dry cutting. 2006 , 46, 957-963	78
825	Role of microstructure in the aging-related deterioration of the toughness of human cortical bone. 2006 , 26, 1251-1260	110
824	The mechanical properties and fracture mechanisms of wrought low carbon arc cast (LCAC), molybdenum D.5pct titanium D.1pct zirconium (TZM), and oxide dispersion strengthened (ODS) molybdenum flat products. 2006, 418, 120-136	72
823	Influence of additives on anisotropic grain growth in silicon nitride ceramics. 2006 , 422, 85-91	68
822	Coating Cu nano-sized particles on Al2O3 powders by a wet-chemical method and its mechanical properties after hot press sintering. 2006 , 426, 181-186	9
821	Surface characteristics and oxidation behavior of nitrogen ion-implanted ZrBnNb alloy. <i>Surface and Coatings Technology</i> , 2006 , 200, 5631-5635	8
820	WCIrO2 composites: processing and unlubricated tribological properties. 2006, 260, 1-9	21
819	Transient Creep Behavior in Enhanced SiC/SiC Composites. 2006 , 498-503	
818	Application of Fracture Mechanics Concepts to Hierarchical Biomechanics of Bone and Bone-like Materials. 2006 , 138, 101-137	363
817	Tribological behaviors of hot-pressed Al2O3/TiC ceramic composites with the additions of CaF2 solid lubricants. 2006 , 26, 1317-1323	63
816	R-curve behaviour of 2Y-TZP with submicron grain size. 2006 , 26, 3575-3582	23
815	Palmqvist fracture toughness of a new wear-resistant weld alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 3617-3627	9
814	High Volume Fraction Al2O3/Al Composite Thixoforging in Pseudo-Semi-Solid State. 2006 , 116-117, 725-729	6
813	Fibrous monolithic ceramics. 2006, 9-32	
812	Fracture, aging, and disease in bone. 2006 , 21, 1878-1892	52
811	The Effects of Crossover Pores on High Temperature Bending Behavior of 3-Dimensional Braided C/SiC. 2006 , 13, 313-322	

810	Novel synthesis of advanced composites of ⊞Al2O3 reinforced with Ce TZP through co-precipitation process. 2006 , 105, 222-227	7
809	Design of Ceramic Composite Based on the Impact Resistance and its Machining Application. 2007 , 336-338, 2487-2489	
808	Two-glassy-phase bulk metallic glass with remarkable plasticity. 2007 , 91, 131901	107
807	Crystalline damage growth during martensitic phase transformations. 2007 , 87, 5033-5063	10
806	Design of Multiphase Materials. 2007 , 280-283, 963-966	
805	Fracture Mechanics of Ceramics - A Short Introduction. 2007 , 333, 77-86	5
804	Design and Fabrication of an Advanced Ceramic Material Based on the Wear Resistance. 2007 , 280-283, 1783-1786	1
803	Fracture Enhancement of Mixed Mode I-II Transformation Toughened Ceramics. 2007, 336-338, 2444-2447	1
802	Fracture Analysis on the Invasion Problem of the Porous Material. 2007, 348-349, 805-808	
801	Fabrication and Mechanical Properties of SiCf/SiC Composites via Polycarbosilane Pyrolysis. 2007 , 336-338, 1254-1256	
800	The Toughening Action of Comprehensive Transformation on Mixed Mode II-III Ceramics. 2007 , 280-283, 1779-1782	5
799	Structural and Optical Ceramics: Yesterday, Today, and Tomorrow. 2007 , 336-338, 905-910	2
798	Effect of different all-ceramic crown system on fracture resistance and failure pattern of endodontically treated maxillary premolars restored with and without glass fiber posts. 2007 , 33, 848-51	46
797	Lamination Process to Obtain Structure with Tailored Residual Stress Distribution. 2007, 333, 27-38	3
796	On a ferroelastic mechanism governing the toughness of metastable tetragonal-prime (t?) yttria-stabilized zirconia. 2007 , 463, 1393-1408	162
795	Wear behaviour of Al2O3Mo and Al2O3Nb composites. 2007 , 262, 1346-1352	38
794	Effects of pyrolysis temperatures on the microstructure and mechanical properties of 2D-Cf/SiC composites using polycarbosilane. <i>Ceramics International</i> , 2007 , 33, 73-76	36
793	Effects of heat treatment on the microstructure and flexural properties of CVIIIyranno-SA/SiC composite. <i>Ceramics International</i> , 2007 , 33, 141-146	24

792	Microstructure development of unidirectionally solidified (Nb)/Nb3Si eutectic alloys. 2007, 444, 51-57	35
791	Inelastic deformation and its related life under cyclic/creep loadings in Si3N4-monolithic and Si3N4/SiCw-composite ceramics at elevated temperature. 2007 , 468-470, 273-280	3
790	Sand erosion performance of SiC/(W,Ti)C gradient ceramic nozzles by abrasive air-jets. 2007, 28, 2099-2105	8
789	A micromechanical basis for partitioning the evolution of grain bridging in brittle materials. 2007 , 55, 719-743	36
788	Assessment on mechanical properties controlling of alumina ceramics for harsh service conditions. 2007 , 27, 759-762	13
787	Multilayer ceramic composites with high failure resistance. 2007 , 27, 1373-1377	63
786	B4C/metal boride composites derived from B4C/metal oxide mixtures. 2007 , 27, 695-700	56
7 ⁸ 5	Microstructure and mechanical properties of Ti3SiC2/3Y-TZP composites by spark plasma sintering. 2007 , 27, 413-417	16
784	Toughening of Nontransformable t?-YSZ by Addition of Titania. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 070926022312003-???	11
783	Fatigue behavior of resin composites in aqueous environments. 2007 , 23, 893-9	47
783 782	Fatigue behavior of resin composites in aqueous environments. 2007, 23, 893-9 Effect of grain width and aspect ratio on mechanical properties of Si3N4 ceramics. 2007, 42, 5431-5436	21
782	Effect of grain width and aspect ratio on mechanical properties of Si3N4 ceramics. 2007 , 42, 5431-5436	21
782 781	Effect of grain width and aspect ratio on mechanical properties of Si3N4 ceramics. 2007, 42, 5431-5436 An Experimental Investigation of Deformation and Fracture of NacreMother of Pearl. 2007, 47, 311-324	341
782 781 780	Effect of grain width and aspect ratio on mechanical properties of Si3N4 ceramics. 2007, 42, 5431-5436 An Experimental Investigation of Deformation and Fracture of NacreMother of Pearl. 2007, 47, 311-324 Mechanical properties of aluminaDirconiaNb microBano-hybrid composites. 2008, 68, 1392-1398 Research on the frontiers of materials science: The impact of nanotechnology on new material	21 341 38
782 781 780	Effect of grain width and aspect ratio on mechanical properties of Si3N4 ceramics. 2007, 42, 5431-5436 An Experimental Investigation of Deformation and Fracture of NacreMother of Pearl. 2007, 47, 311-324 Mechanical properties of alumina irconia ib micro ilano-hybrid composites. 2008, 68, 1392-1398 Research on the frontiers of materials science: The impact of nanotechnology on new material development. 2008, 30, 401-404	21 341 38 16
782 781 780 779 778	Effect of grain width and aspect ratio on mechanical properties of Si3N4 ceramics. 2007, 42, 5431-5436 An Experimental Investigation of Deformation and Fracture of NacreMother of Pearl. 2007, 47, 311-324 Mechanical properties of alumina@irconia\b micro\b micro\b ano-hybrid composites. 2008, 68, 1392-1398 Research on the frontiers of materials science: The impact of nanotechnology on new material development. 2008, 30, 401-404 Low-temperature synthesis of \bar{H}Al2O3. 2008, 47, 379-383	 21 341 38 16 5

(2008-2008)

	particles. 2008 , 486, 167-170	55
773	Formation of intragranular nano-structures in micro-sized ceramic composite materials. 2008, 491, 338-342	17
772	Creep of monolithic and fibre-reinforced silicon carbide. 2008 , 28, 1535-1542	6
771	Constrained sintering: A delicate balance of scales. 2008 , 28, 1451-1466	154
770	Fracture behaviour of microcrack-free alumina luminium titanate ceramics with second phase nanoparticles at alumina grain boundaries. 2008 , 28, 1961-1971	36
769	Reduced strength degradation of alumina Eluminium titanate composite subjected to low-velocity impact loading. 2008 , 28, 2923-2931	5
768	Synthesis of zirconia nanoparticles on carbon nanotubes and their potential for enhancing the fracture toughness of alumina ceramics. 2008 , 39, 1136-1141	62
767	Loading configuration effects on the strength reliability of aluminalirconia multilayered ceramics. 2008 , 68, 244-250	7
766	Analysis of damage mechanisms and associated acoustic emission in two SiC/[SiBt] composites exhibiting different tensile behaviours. Part I: Damage patterns and acoustic emission activity. 2008, 68, 1250-1257	46
-6-	A statistical investigation of the effects of grain boundary properties on transgranular fracture. \circ ,	
765	Acta Materialia, 2008 , 56, 4739-4749	49
764	Acta Materialia, 2008, 56, 4739-4749 The effect of finish line preparation and layer thickness on the failure load and fractography of ZrO2 copings. 2008, 99, 369-76	59
	The effect of finish line preparation and layer thickness on the failure load and fractography of	
764	The effect of finish line preparation and layer thickness on the failure load and fractography of ZrO2 copings. 2008 , 99, 369-76	59
764 763	The effect of finish line preparation and layer thickness on the failure load and fractography of ZrO2 copings. 2008, 99, 369-76 Stabilized zirconia as a structural ceramic: an overview. 2008, 24, 289-98 Influence of surface roughness on mechanical strength of resin composite versus glass ceramic	59 684
764 763 762	The effect of finish line preparation and layer thickness on the failure load and fractography of ZrO2 copings. 2008, 99, 369-76 Stabilized zirconia as a structural ceramic: an overview. 2008, 24, 289-98 Influence of surface roughness on mechanical strength of resin composite versus glass ceramic materials. 2008, 24, 250-6	59 684 69
764 763 762 761	The effect of finish line preparation and layer thickness on the failure load and fractography of ZrO2 copings. 2008, 99, 369-76 Stabilized zirconia as a structural ceramic: an overview. 2008, 24, 289-98 Influence of surface roughness on mechanical strength of resin composite versus glass ceramic materials. 2008, 24, 250-6 Fine-grained Al2O3\(\textit{Z}\text{rO2}\) composites by optimization of the processing parameters. 2008, 59, 155-158	596846917
764 763 762 761 760	The effect of finish line preparation and layer thickness on the failure load and fractography of ZrO2 copings. 2008, 99, 369-76 Stabilized zirconia as a structural ceramic: an overview. 2008, 24, 289-98 Influence of surface roughness on mechanical strength of resin composite versus glass ceramic materials. 2008, 24, 250-6 Fine-grained Al2O3ZrO2 composites by optimization of the processing parameters. 2008, 59, 155-158 Effect of microstructure on the fracture behavior of microfiano ZTA composite. 2008, 112, 213-217 A new structure for multi-walled carbon nanotubes reinforced alumina nanocomposite with high	59684691720

756	The quest for stronger, tougher materials. 2008 , 320, 448; author reply 448		23
755	Microstructure and Mechanical Properties of C/SiC Composites Prepared at Low Temperatures. 2008 , 368-372, 849-851		
754	Enhance diamond coating adhesion by oriented interlayer microcracking. 2009, 106, 123514		1
753	ANALYSES OF INFLUENCE FACTORS ON MECHANICAL PROPERTIES OF CERAMIC COMPOSITES REINFORCED BY NANO-MICRO PARTICLES. 2009 , 23, 1352-1357		
752	Extensive deformation behavior of an all-oxide Al2O3-TiO2 nanostructured multilayer ceramic at room temperature. 2009 , 24, 3387-3396		2
751	Bending and Contact Strength of a Ceramic Nanocomposite. 2009 , 417-418, 761-764		
75°	Fracture of Layered Ceramics. 2009 , 409, 94-106		9
749	Non-Symmetric Thermal Shock In Ceramic Matrix Composite (Cmc) Materials. 2009 , 99-148		8
748	Spark plasma sintered high hardness ÆSi3N4 composites with MgSiN2 as additives. 2009, 61, 347-350		36
747	Mechanistic aspects of fatigue crack growth behavior in resin based dental restorative composites. 2009 , 25, 909-16		31
746	On the wide range of mechanical properties of ZTA and ATZ based dental ceramic composites by varying the Al2O3 and ZrO2 content. 2009 , 27, 962-970		82
745	Multifunctional Composites of Ceramics and Single-Walled Carbon Nanotubes. 2009 , 21, 1767-1770		97
744	On the Fracture Toughness of Advanced Materials. 2009 , 21, 2103-2110		528
743	Merger of structure and material in nacre and bone IPerspectives on de novo biomimetic materials. 2009 , 54, 1059-1100		546
742	Fabrication and mechanical properties of nano-/micro-sized Al2O3/SiC composites. 2009 , 504, 49-54		88
741	Residual strength of metal particulate reinforced ceramics with parallel cracks. 2009 , 527, 252-257		2
740	Ductile-Phase Toughening of Brazed Joints. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 1413-1421	2.3	5
739	Effect of quartz particle size on the mechanical behaviour of porcelain tile subjected to different cooling rates. 2009 , 29, 1039-1046		46

(2010-2009)

738	New nano-sized Al2O3-BN coating 3Y-TZP ceramic composites for CAD/CAM-produced all-ceramic dental restorations. Part I. Fabrication of powders. 2009 , 5, 232-9		10
737	R-curve behavior and micromechanisms of fracture in resin based dental restorative composites. 2009 , 2, 502-11		44
736	Crack front pinning by design in planar heterogeneous interfaces. 2009 , 57, 446-457		44
735	Microstructure and mechanical properties of hot-pressed B4C/TiC/Mo ceramic composites. <i>Ceramics International</i> , 2009 , 35, 771-778	5.1	58
734	High mechanical performance SiC/SiC composites by NITE process with tailoring of appropriate fabrication temperature to fiber volume fraction. 2009 , 69, 1623-1628		33
733	Designing highly toughened hybrid composites through nature-inspired hierarchical complexity. <i>Acta Materialia</i> , 2009 , 57, 2919-2932	8.4	235
732	B4C-TiB2 Composites via Reactive Hot Pressing. 2009 , 28, 277-284		2
731	Processing, structure and properties of ceramic fibers. 2009 , 378-424		6
730	Ti3AlC2-Al2O3-TiAl3 composite fabricated by reactive melt infiltration. 2009, 19, 1215-1221		16
729	References. 439-471		
729 728	References. 439-471 Microstructural Characterization of C/C-SiC Composites after Oxidation with Oxyacetylene Gas in Open Atmosphere. 2010, 205-212		
	Microstructural Characterization of C/C-SiC Composites after Oxidation with Oxyacetylene Gas in		
	Microstructural Characterization of C/C-SiC Composites after Oxidation with Oxyacetylene Gas in Open Atmosphere. 2010 , 205-212		71
728 727	Microstructural Characterization of C/C-SiC Composites after Oxidation with Oxyacetylene Gas in Open Atmosphere. 2010 , 205-212 Properties of PZT/PZT ceramic piezocomposites. 2010 , 74, 1100-1103		71 79
728 727 726	Microstructural Characterization of C/C-SiC Composites after Oxidation with Oxyacetylene Gas in Open Atmosphere. 2010, 205-212 Properties of PZT/PZT ceramic piezocomposites. 2010, 74, 1100-1103 Zirconia nanoparticles prepared by laser vaporization as fillers for dental adhesives. 2010, 6, 4539-46 The significance of crack-resistance curves to the mixed-mode fracture toughness of human		·
728 727 726 725	Microstructural Characterization of C/C-SiC Composites after Oxidation with Oxyacetylene Gas in Open Atmosphere. 2010, 205-212 Properties of PZT/PZT ceramic piezocomposites. 2010, 74, 1100-1103 Zirconia nanoparticles prepared by laser vaporization as fillers for dental adhesives. 2010, 6, 4539-46 The significance of crack-resistance curves to the mixed-mode fracture toughness of human cortical bone. 2010, 31, 5297-305		79
728 727 726 725 724	Microstructural Characterization of C/C-SiC Composites after Oxidation with Oxyacetylene Gas in Open Atmosphere. 2010, 205-212 Properties of PZT/PZT ceramic piezocomposites. 2010, 74, 1100-1103 Zirconia nanoparticles prepared by laser vaporization as fillers for dental adhesives. 2010, 6, 4539-46 The significance of crack-resistance curves to the mixed-mode fracture toughness of human cortical bone. 2010, 31, 5297-305 Tensile properties and fracture behaviour of carbon fibre filament materials. 2010, 45, 192-200		79 5

Oxide Ceramics: Structure, Technology, and Applications. **2010**, 175-252

719	Effect of the specimen size on strength of Si3N4+SiC composite. 2010 , 30, 1059-1065	5
718	Contact strength and crack formation in monolithic ceramic materials. 2010 , 527, 1179-1184	1
717	Interfacial fracture behavior of tungsten wire/tungsten matrix composites with copper-coated interfaces. 2010 , 527, 1623-1629	41
716	Influence of composition on mechanical behaviour of porcelain tile. Part II: Mechanical properties and microscopic residual stress. 2010 , 527, 1736-1743	23
715	Al(2)O(3(w))-Al(2)O(3(n))-ZrO(2) (TZ-3Y)(n) multi-scale nanocomposite: an alternative for different dental applications?. 2010 , 6, 563-70	24
714	Feasibility study of a tungsten wire-reinforced tungsten matrix composite with ZrOx interfacial coatings. 2010 , 70, 1482-1489	61
713	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. 2010 , 70, 2086-2092	50
712	Acicular Mullitellordierite Composites with Controllable CTE Values. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3600-3603	10
711	High Strength and Toughness Al2O3 Composite Materials for the Improvement of Ceramic Channel in SRL Hot Dipping System. 2010 , 658, 416-419	2
710	Development of Whisker Toughening Ceramic Cutting Tool Composite by In Situ Synthesis Technology. 2010 , 431-432, 201-204	3
709	A novel biomimetic approach to the design of high-performance ceramic-metal composites. 2010 , 7, 741-53	213
708	The Effect of ZrO2 Interphase on Interfacial Frictional Stresses in SiC/ZrO2/SiCf Composites. 2010 , 17, 383-393	
707	Nacre from mollusk shells: a model for high-performance structural materials. 2010 , 5, 035001	170
706	Chemical Vapour Deposition. 2010 ,	28
705	Chemical Vapour Infiltration. 2010 , 165-213	2
704	Introduction to Chemical Vapour Deposition. 2010 , 1-28	6
703	On the Mechanistic Origins of Toughness in Bone. <i>Annual Review of Materials Research</i> , 2010 , 40, 25-53 12.8	451

702	Micromechanical response for the amorphous/amorphous nanolaminates. 2010, 18, 2453-2457		25
701	Microstructure and room temperature mechanical properties of hot-pressed Nb⊠i⊞i⊞e alloys. 2010 , 502, 310-318		11
700	On the effect of X-ray irradiation on the deformation and fracture behavior of human cortical bone. 2010 , 46, 1475-85		142
699	Ceramics: Definition and Characteristics. 2011 , 1-13		1
698	Oxide Nanoceramic Composites. 2011 , 347-365		
697	Glass Matrix Composite. 2011 ,		
696	Deformation and Fracture Mechanisms of Bone and Nacre. <i>Annual Review of Materials Research</i> , 2011 , 41, 41-73	12.8	158
695	The conflicts between strength and toughness. 2011 , 10, 817-22		1807
694	Microstructure evolution and room temperature deformation of a unidirectionally solidified Nb-22Ti-16Si-3Ta-2Hf-7Cr-3Al-0.2Ho (at.%) alloy. 2011 , 19, 196-201		18
693	Development of Optical Techniques for Noncontact Inspection of YIIZP Parts. 2011 , 8, 140-151		2
692	Raman Spectroscopic Observations of Ferroelastic Switching in Ceria-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4478-4482	3.8	15
691	Influence of WC particles on the microstructural and mechanical properties of 3mol% Y2O3 stabilized ZrO2 matrix composites produced by hot pressing. 2011 , 31, 2267-2275		6
690	Microstructures and mechanical properties in B4CleO2 ceramics. 2011, 417, 663-667		11
689	Reply to comments of Jon Olson and Richard Schultz. 2011 , 33, 1525-1526		13
688	Mechanical behavior of molybdenum disilicide reinforced silicon carbide composites. 2011 , 65, 838-841		9
687	Preparation of graphene nanosheet/alumina composites by spark plasma sintering. 2011 , 46, 315-318		186
686	Role of immiscible and miscible second phases on the sintering kinetics and microstructural development of nano-crystalline Al2O3-based materials. <i>Ceramics International</i> , 2011 , 37, 3547-3556	5.1	13
685	Transformation-strengthened ZrO2-CeO2 ceramic on the basis of powders synthesized using the ultrasonic spray pyrolysis method. 2011 , 2, 499-502		

684	Analysis of fracture damage zone in anisotropic granitic rock using 3D X-ray CT scanning techniques. 2011 , 168, 1-13		49
683	Microstructure and mechanical properties of pulsed electric current sintered B4CIIiB2 composites. 2011 , 528, 1302-1309		87
682	Mechanisms of toughening in silicon nitrides: The roles of crack bridging and microstructure. <i>Acta Materialia</i> , 2011 , 59, 3978-3989	8.4	55
681	Multiwalled carbon nanotubes reinforced alumina composites. 2011 , 26, 1171-1173		2
680	Electrical transport and magnetic properties of PEDOT-ferrite nanocomposites. 2011 , 32, 629-638		2
679	Surface Modification of an Alumina-Based Bioceramic for Cement Application. 2011 , 13, B306-B312		2
678	Low temperature degradation of a Y-TZP dental ceramic. 2011 , 7, 858-65		158
677	Loading rate effects on the R-curve behavior of cortical bone. 2011 , 7, 724-32		40
676	Nanotube fracture during the failure of carbon nanotube/alumina composites. 2011 , 49, 3709-3716		95
675	Toughness amplification in natural composites. 2011 , 59, 829-840		179
675 674	Toughness amplification in natural composites. 2011 , 59, 829-840 Failure and strength of 2D-C/SiC composite under in-plane shear loading at elevated temperatures. 2011 , 32, 3504-3508		179
	Failure and strength of 2D-C/SiC composite under in-plane shear loading at elevated temperatures.		
674	Failure and strength of 2D-C/SiC composite under in-plane shear loading at elevated temperatures. 2011 , 32, 3504-3508 Strength reliability of 3D low temperature co-fired multilayer ceramics under biaxial loading. 2011 ,		19
674	Failure and strength of 2D-C/SiC composite under in-plane shear loading at elevated temperatures. 2011 , 32, 3504-3508 Strength reliability of 3D low temperature co-fired multilayer ceramics under biaxial loading. 2011 , 31, 745-753		19 30
674 673	Failure and strength of 2D-C/SiC composite under in-plane shear loading at elevated temperatures. 2011, 32, 3504-3508 Strength reliability of 3D low temperature co-fired multilayer ceramics under biaxial loading. 2011, 31, 745-753 Wear Behavior of ZrO2-CNF and Si3N4-CNT Nanocomposites. 2011, 465, 495-498 Strategies for fracture toughness, strength and reliability optimisation of ceramic-ceramic		19 30 14
674 673 672	Failure and strength of 2D-C/SiC composite under in-plane shear loading at elevated temperatures. 2011, 32, 3504-3508 Strength reliability of 3D low temperature co-fired multilayer ceramics under biaxial loading. 2011, 31, 745-753 Wear Behavior of ZrO2-CNF and Si3N4-CNT Nanocomposites. 2011, 465, 495-498 Strategies for fracture toughness, strength and reliability optimisation of ceramic-ceramic laminates. 2011, 102, 613-626		19 30 14 49
674 673 672 671	Failure and strength of 2D-C/SiC composite under in-plane shear loading at elevated temperatures. 2011, 32, 3504-3508 Strength reliability of 3D low temperature co-fired multilayer ceramics under biaxial loading. 2011, 31, 745-753 Wear Behavior of ZrO2-CNF and Si3N4-CNT Nanocomposites. 2011, 465, 495-498 Strategies for fracture toughness, strength and reliability optimisation of ceramic-ceramic laminates. 2011, 102, 613-626 Fracture Mechanisms of Structural and Functional Multilayer Ceramic Structures. 2011, 465, 41-46 Mechanical properties and microstructure of 2.5D (shallow bend-joint) quartzf/silica composites by		19 30 14 49

Reinforcement of Porcelain by Mullite Fiber for Power Applications. **2012**, 512-515, 596-599

665	Mechanical and Tribological Properties of Al2O3-ZrO2 Based Composites Prepared by EPD. 2012 , 507, 191-195	1
664	La2O3 Reinforced Al2O3-TiO2 Ceramic Composites for Inert Coating of Metallic Parts for Petroleum Industry. 2012 , 727-728, 592-596	2
663	Development of Mo and Ta Foil Reinforced (MoSi2 + 20 Vol% SiCp) Matrix Laminated Composites. 2012 , 585, 306-310	1
662	Processing of ceramicfhetal composites. 2012 , 111, 286-300	28
661	Novel Temperature Dependent Process for ⊞Al2O3 Platelets. 2012 , 182-183, 104-109	1
660	Prediction of Fracture Toughness via Microstructure-Level Simulations. 2012,	
659	Examination of bond strength and mechanical properties of Y-TZP zirconia ceramics with different surface modifications. 2012 , 31, 472-80	39
658	Highly stretchable and tough hydrogels. 2012 , 489, 133-6	3109
657	Ultralong one-dimension Al3CON nanostructures: synthesis, elastic deformation behavior and photoelectric properties. 2012 , 22, 12830	3
656	Discontinuous crack-bridging model for fracture toughness analysis of nacre. 2012 , 60, 1400-1419	176
655	On the fracture toughness of fine-grained Mo-3Si-1B (wt.%) alloys at ambient to elevated (1300IIC) temperatures. 2012 , 20, 141-154	34
654	Internal residual stresses in glass-ceramics: A review. 2012 , 358, 975-984	85
653	Mechanical properties of zirconia toughened alumina with 10½4 vol.% 1Y-TZP reinforcement. 2012 , 32, 4177-4184	42
652	Polymer toughness transfer in a transparent interpenetrating glasspolymer composite. 2012 , 73, 57-63	16
651	Fracture resistance of atmospheric plasma sprayed thermal barrier coatings. <i>Surface and Coatings</i> 4-4	7
650	Tough hybrid ceramic-based material with high strength. 2012 , 67, 744-747	9
649	Structureproperty relations in aluminazirconia nanocomposites reinforced with in situ formed cerium hexaaluminate precipitates. 2012 , 67, 1007-1010	8

648	Flexural strength and the probability of failure of cold isostatic pressed zirconia core ceramics. 2012 , 108, 84-95	14
647	Applying microwave technology to sintering dental zirconia. 2012 , 108, 304-9	36
646	Effect of organic dispersants on structural and mechanical properties of Al2O3/ZrO2 composites. 2012 , 47, 4210-4215	9
645	A low cost fabrication route for continuous carbon fiber reinforced TiC based ceramic matrix composite. 2012 , 556, 980-983	9
644	Effect of phase transformations on the fracture toughness of t? yttria stabilized zirconia. 2012 , 556, 927-935	52
643	CHAPTER 5:Nacre from Mollusk Shells: Inspiration for High-performance Nanocomposites. 2012 , 113-149	5
642	The micromechanics of biological and biomimetic staggered composites. 2012 , 9, 446-456	18
641	Ceramic Laminates. 2012 , 1	
640	Tribological and electrical properties of ceramic matrix composites with carbon nanotubes. **Ceramics International*, 2012*, 38, 5669-5676** 5.1	47
639	Carbon Nanotube Reinforced Alumina Composite Materials. 2012 ,	3
639 638	Carbon Nanotube Reinforced Alumina Composite Materials. 2012 , Mo-Si-B alloys for ultrahigh-temperature structural applications. 2012 , 24, 3445-80	3
638	Mo-Si-B alloys for ultrahigh-temperature structural applications. 2012 , 24, 3445-80	164
638 637	Mo-Si-B alloys for ultrahigh-temperature structural applications. 2012 , 24, 3445-80 Measuring the Toughness of Primate Foods and its Ecological Value. 2012 , 33, 598-610 Microstructure and Mechanical Properties of Piezoelectric Materials Toughening Multi-walled	164 36
638 637 636	Mo-Si-B alloys for ultrahigh-temperature structural applications. 2012, 24, 3445-80 Measuring the Toughness of Primate Foods and its Ecological Value. 2012, 33, 598-610 Microstructure and Mechanical Properties of Piezoelectric Materials Toughening Multi-walled Carbon Nanotubes/Hydroxyapatite Biocomposites. 2012, 22, 307-310 Fatigue resistance and failure mode of adhesively restored custom implant zirconia abutments.	164 36 1
638 637 636	Mo-Si-B alloys for ultrahigh-temperature structural applications. 2012, 24, 3445-80 Measuring the Toughness of Primate Foods and its Ecological Value. 2012, 33, 598-610 Microstructure and Mechanical Properties of Piezoelectric Materials Toughening Multi-walled Carbon Nanotubes/Hydroxyapatite Biocomposites. 2012, 22, 307-310 Fatigue resistance and failure mode of adhesively restored custom implant zirconia abutments. 2012, 23, 1360-8 Mechanical properties and microstructure of 2.5D (shallow straight-joint) quartz fibers-reinforced	164 36 1
638637636635634	Mo-Si-B alloys for ultrahigh-temperature structural applications. 2012, 24, 3445-80 Measuring the Toughness of Primate Foods and its Ecological Value. 2012, 33, 598-610 Microstructure and Mechanical Properties of Piezoelectric Materials Toughening Multi-walled Carbon Nanotubes/Hydroxyapatite Biocomposites. 2012, 22, 307-310 Fatigue resistance and failure mode of adhesively restored custom implant zirconia abutments. 2012, 23, 1360-8 Mechanical properties and microstructure of 2.5D (shallow straight-joint) quartz fibers-reinforced silica composites by silicasol-infiltration-sintering. Ceramics International, 2012, 38, 795-800 5.1 Fabrication of novel multilayer Al2O3(m-ZrO2)/t-ZrO2 fibrous ceramics composites. Ceramics	164 36 1 8

Effects of 1600 LC annealing atmosphere on the microstructures and mechanical properties of 630 C/SiC composites fabricated by precursor infiltration and pyrolysis. Ceramics International, **2012**, 38, $4229^{-4}235^{-1}$ Bulk WCAl2O3 composites prepared by spark plasma sintering. 2012, 30, 51-56 629 55 Temperature dependency of interlaminar shear strength of 2D-C/SiC composite. 2012, 36, 172-176 628 20 Effect of high-temperature aging on the fracture toughness of ytterbia-stabilized t? zirconia. 2012, 627 14 67, 285-288 High toughness and strength in yttrialleodymia costabilized zirconia ceramics. 2012, 67, 301-304 626 6 Tungsten foil laminate for structural divertor applications Basics and outlook. 2012, 423, 1-8 625 70 Processing and properties of silicon carbide and its composites containing MoSi2 and ZrB2. 2012, 624 2 540, 107-114 Tailoring of functionally graded zirconia hullite/alumina ceramics. 2012, 32, 1561-1573 623 23 Towards physical properties tailoring of carbon nanotubes-reinforced ceramic matrix composites. 622 173 **2012**, 32, 3001-3020 Evaluation of flexural strength of hipped and presintered zirconia using different estimation 621 26 methods of Weibull statistics. 2012, 10, 227-34 Mechanical behaviour and microstructural characterization of 3D four-directional braided 620 2 SiO2f/SiO2 composites. 2012, 35, 953-961 Graphene reinforced alumina nano-composites. 2013, 64, 359-369 619 221 618 Layered Ceramics. 2013, 733-751 1 Photoelastic Imaging of Residual Stress Distribution in Epoxy Interface Layers of Ceramics with 617 Periodic Building-Block Structure. 2013, 15, 1099-1104 Stochastic failure of isotropic, brittle materials with uniform porosity. Acta Materialia, 2013, 61, 2853-2862. 616 26 Microstructure, chemical states, and mechanical properties of VIII coatings prepared by 615 5 non-reactive magnetron sputtering. 2013, 540, 135-141 Multiscale modeling for the simulation of damage processes at refractory materials under thermal 614 9 shock. 2013, 70, 187-195 Opportunities for improved TBC durability in the CeO2IIiO2IIrO2 system. Surface and Coatings 613 25 Technology, **2013**, 221, 44-52

612	Recent progress in R&D on tungsten alloys for divertor structural and plasma facing materials. 2013 , 442, S181-S189		222
611	Analysis on Stress/Strain Tolerances of \$I_{rm c}\$ in Externally Laminated GdBCO CC Tapes. 2013 , 23, 8400504-8400504		17
610	Mechanical properties of hot pressed SiCp and B4Cp/Alumix 123 composites alloyed with minor Zr. 2013 , 54, 34-40		20
609	Preparation and characterization of Al2O3/TiC microflano-composite ceramic tool materials. <i>Ceramics International</i> , 2013 , 39, 4253-4262	5.1	24
608	Influence of MgO addition on the properties of new tailored FGZM/A ceramics. 2013, 578, 197-206		4
607	In situ synchrotron tomography estimation of toughening effect by semi-ductile fibre reinforcement in a tungsten-fibre-reinforced tungsten composite system. <i>Acta Materialia</i> , 2013 , 61, 70	6 8 - 1 07	1 ⁹⁰
606	Enhanced Hydrothermal Resistance of Y-TZP Ceramics Through Colloidal Processing. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1070-1076	3.8	14
605	Thermal barrier coating toughness: Measurement and identification of a bridging mechanism enabled by segmented microstructure. 2013 , 564, 324-330		36
604	The phase formation and stability of tetragonal ZrO2 prepared in a silica bath. <i>Ceramics International</i> , 2013 , 39, 1729-1739	5.1	19
603	Toward Strong and Tough Glass and Ceramic Scaffolds for Bone Repair. 2013 , 23, 5461-5476		143
602	Fatigue crack propagation and in-situ observations in three tool steel alloys manufactured using a rapid solidification technique. 2013 , 48, 5324-5333		1
601	Fracture Mechanisms in Organic-Rich Shales: Role of Kerogen. 2013 ,		19
600	Co-toughened Polystyrene by Submicrometer-Sized CoreBhell Rubber Particles and Micrometer-Sized Salami Rubber Particles. 2013 , 52, 5079-5084		4
599	Unprecedented simultaneous enhancement in strain tolerance, toughness and strength of Al2O3 ceramic by multiwall-type failure of a high loading of carbon nanotubes. 2013 , 24, 155702		36
598	Perspectives on the role of nanotechnology in bone tissue engineering. 2013 , 29, 103-15		98
597	Prediction of fracture toughness of ceramic composites as function of microstructure: I. Numerical simulations. 2013 , 61, 472-488		58
596	Preparation of High Performance SiCf/SiC Composites through PIP Process. 2013, 544, 43-47		19
595	Encyclopedia of Tribology. 2013 , 390-396		

(2014-2013)

594	Influence of Precursor Zirconium Carbide Powders on the Properties of the Spark Plasma Sintered Ceramic Composite Materials. 2013 , 297-308	2
593	Toughening of polymers. 435-500	1
592	The use of ceramic matrix composites for metal cutting applications. 2014 , 623-654	7
591	Recent advances in understanding the reinforcing ability and mechanism of carbon nanotubes in ceramic matrix composites. 2014 , 15, 064902	66
590	Carbosilisiothermic Reduction of Rutile to Produce Nano-Sized Particles of TiC and Its Composite with SiO2. 2014 , 45, 1615-1621	3
589	Enhanced toughness and stable crack propagation in a novel tungsten fibre-reinforced tungsten composite produced by chemical vapour infiltration. 2014 , T159, 014031	51
588	Fracture of Ceramics. 2014 , 529-575	
587	In Situ Platelet Reinforcement of Alumina and Zirconia Matrix Nanocomposites ©ne Concept, Different Reinforcement Mechanisms. 2014 , 87, 118-125	2
586	Toughness, Fatigue and Thermal Shock of Ceramics. 2014 , 299-319	1
585	Studies on the Pyrolysis Kinetic Behaviours of Polycarbosilan. 2014 , 602-603, 388-392	5
584	Reuse of ZrO2(Y2O3) Arising from Making Dental Implant - Characterization of Materials. 2014 , 798-799, 632-637	0
583	Using multi-walled carbon nanotubes in spark plasma sintered Pb(Zr0.47Ti0.53)O3 ceramics for tailoring dielectric and tunability properties. 2014 , 116, 164110	14
582	Graphene Covered Alumina Nanofibers as Toughening Agent in Alumina Ceramics. 2014 , 88, 49-53	8
581	Introduction. 2014 , 1-30	6
580	Current-Activated, Pressure-Assisted Infiltration: A Novel, Versatile Route for Producing Interpenetrating CeramicMetal Composites. 2014 , 2, 124-130	18
579	Synthesis and Characterization of Silica Coated Carbon Nanotubes-Alumina Composite Ceramics. 2014 , 703, 106-109	
578	Study on Mechanical Properties of Zirconia-Alumina Based Ceramics. 2014 , 625, 81-84	3
577	A Critical Survey of Ceramics Materials for Production of Automotive Engine Block. 2014 , 980, 33-40	

576	Thermal expansion of oxide systems on the basis of ZrO2. 2014 , 66, 81-83		2
575	Mechanical properties of high-temperature-degraded yttria-stabilized zirconia. <i>Acta Materialia</i> , 2014 , 69, 397-406	8.4	98
574	Characterization of Young?s modulus and fracture toughness of albite glass by different techniques. <i>Ceramics International</i> , 2014 , 40, 10893-10899	5.1	3
573	Characterization of a duplex precursor-derived and pyrocarbon coating for needled carbon fiber felts. <i>Ceramics International</i> , 2014 , 40, 6285-6292	5.1	9
572	Modeling microstructural damage of silicate-based ceramics and its influence on macroscopic fracture strength. <i>Acta Materialia</i> , 2014 , 70, 30-44	8.4	5
571	Evaluation of shear bond strength of zirconia bonded to dentin after various surface treatments of zirconia. 2014 , 14, 38-41		8
570	Bone responses to zirconia implants with a thin carbonate-containing hydroxyapatite coating using a molecular precursor method. 2014 , 102, 1277-88		27
569	Fracture resistance of human cortical bone across multiple length-scales at physiological strain rates. 2014 , 35, 5472-81		100
568	YSZ fiber-reinforced porous YSZ ceramics with lowered thermal conductivity: Influence of the sintering temperature. 2014 , 600, 76-81		14
567	Multi Scale Characterization of SiC/SiC Composite Materials. 2014 , 173-183		1
566	Fabrication of a new SiC/2024Al co-continuous composite with lamellar microstructure and high mechanical properties. 2014 , 585, 146-153		64
566 565	·		64
	mechanical properties. 2014 , 585, 146-153 A Novel Bioinspired Multilayered Polymerteramic Composite with Outstanding Crack Resistance.		·
565	mechanical properties. 2014, 585, 146-153 A Novel Bioinspired Multilayered Polymer©eramic Composite with Outstanding Crack Resistance. 2014, 16, 156-160 Effect of in vitro aging on the flexural strength and probability to fracture of Y-TZP zirconia	3.6	12
565 564	mechanical properties. 2014, 585, 146-153 A Novel Bioinspired Multilayered Polymer©eramic Composite with Outstanding Crack Resistance. 2014, 16, 156-160 Effect of in vitro aging on the flexural strength and probability to fracture of Y-TZP zirconia ceramics for all-ceramic restorations. 2014, 30, e306-16 Multi-scale multi-mechanism design of tough hydrogels: building dissipation into stretchy	3.6	12 49
565 564 563	mechanical properties. 2014, 585, 146-153 A Novel Bioinspired Multilayered Polymer©eramic Composite with Outstanding Crack Resistance. 2014, 16, 156-160 Effect of in vitro aging on the flexural strength and probability to fracture of Y-TZP zirconia ceramics for all-ceramic restorations. 2014, 30, e306-16 Multi-scale multi-mechanism design of tough hydrogels: building dissipation into stretchy networks. Soft Matter, 2014, 10, 672-87	3.6	12 49 749
565 564 563 562	mechanical properties. 2014, 585, 146-153 A Novel Bioinspired Multilayered Polymer@eramic Composite with Outstanding Crack Resistance. 2014, 16, 156-160 Effect of in vitro aging on the flexural strength and probability to fracture of Y-TZP zirconia ceramics for all-ceramic restorations. 2014, 30, e306-16 Multi-scale multi-mechanism design of tough hydrogels: building dissipation into stretchy networks. Soft Matter, 2014, 10, 672-87 The use of ceramic matrix composites for metal cutting applications. 2014, 537-569 Variation of Local Critical Current Due to Mechanical Strain in RCE-REBCO Coated Conductors. 2014	3.6	12 49 749 3

 $558 \qquad \text{Strength-toughening model of eutectic ceramic composite with inherent defects. \textbf{2014}, 27, 754-760}$

557	Al2O3-3YTZP-Graphene multilayers produced by tape casting and spark plasma sintering. 2014 , 34, 24	27-243	4 23
556	Low temperature route synthesis of SiC-Al2O3 hetero-structural nanofibers. 2014 , 25, 014017		1
555	Effect of surface treatment and liner material on the adhesion between veneering ceramic and zirconia. 2014 , 40, 369-374		17
554	MicrostructureBroperty relationships in pressureless-sintered carbon nanotube/alumina composites. 2014 , 617, 179-186		33
553	Fracture and toughening mechanisms in SiC nanofiber reinforced SiC matrix nanocomposites with amorphous carbon coatings. 2014 , 83, 255-260		4
552	A comparison of microstructure and mechanical properties of 12Ce-TZP reinforced with alumina and in situ formed strontium- or lanthanum hexaaluminate precipitates. 2014 , 34, 413-423		40
551	Fracture and fatigue of rock bit cemented carbides: Mechanics and mechanisms of crack growth resistance under monotonic and cyclic loading. 2014 , 45, 179-188		34
550	Processing, microstructural characterization and mechanical properties of in situ Ti3AlC2/TiAl3 composite by hot pressing. 2014 , 610, 297-300		14
549	Effect of Difference in Metal Particle on Fracture Toughness of Metal Particle Dispersed Alumina Matrix Composites. 2014 , 78, 195-200		
548	Microstructure and Properties of Spark Plasma-Sintered ZrO2🗹rB2 Nanoceramic Composites. 2014 , 455-462		0
547	High-Temperature Materials Chemistry and Thermodynamics. 2014 , 33-54		8
546	Elimination of strength degrading effects caused by surface microdefect: A prevention achieved by silicon nanotexturing to avoid catastrophic brittle fracture. 2015 , 5, 10869		9
545	Preparation of TZP/Glass Composites as Dental Ceramic Materials. 2015 , 778, 140-143		
544	Recent Advances on Carbon Nanotubes and Graphene Reinforced Ceramics Nanocomposites. <i>Nanomaterials</i> , 2015 , 5, 90-114	5.4	104
543	Effect of Competing Mechanisms on Fracture Toughness of Polycrystalline Metals. 2015,		
542	Siliceous spicules enhance fracture-resistance and stiffness of pre-colonial Amazonian ceramics. 2015 , 5, 13303		14
541	Reinforcement of a Magnesium-Ammonium-Phosphate Cement with Calcium Phosphate Whiskers. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 4028-4035	3.8	7

540	Bone as a Structural Material. 2015, 4, 1287-304		100
539	Influence of Ti3SiC2 Fiber Coating on Interface and Matrix Cracking in an SiC Fiber-Reinforced Polymer-Derived Ceramic. 2015 , 17, 1142-1148		3
538	Effect of air-abrasion regimens and fine diamond bur grinding on flexural strength, Weibull modulus and phase transformation of zirconium dioxide. 2015 , 13, e266-73		9
537	Size effects and shape memory properties in ZrO2 ceramic micro- and nano-pillars. 2015 , 101, 40-43		52
536	Nanocomposite toughness, strength and stiffness: role of filler geometry. 2015 , 1, 3-17		33
535	Application of Micro-Raman Spectroscopy to the Study of Yttria-Stabilized Tetragonal Zirconia Polycrystal (Y-TZP) Phase Transformation. 2015 , 69, 810-4		17
534	Architectured materials in engineering and biology: fabrication, structure, mechanics and performance. 2015 , 60, 413-430		91
533	Crystallization toughening of a model glass-ceramic. <i>Acta Materialia</i> , 2015 , 86, 216-228	8.4	108
532	Tough Alumina/Polymer Layered Composites with High Ceramic Content. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1285-1291	3.8	26
531	Phase and fracture toughness evolution during isothermal annealing of spark plasma sintered zirconia co-doped with Yb, Gd and Nd oxides. 2015 , 35, 1879-1887		12
530	SiC(SCS-6) fiber-reinforced Ti3AlC2 matrix composites: Interfacial characterization and mechanical behavior. 2015 , 35, 1375-1384		29
529	Structure and Properties of Bioceramics Used in Orthopaedic and Dental Implants. 2015 , 69-112		
528	Damage measurements via DIC. 2015 , 191, 77-105		38
527	Fabrication and characterization of three dimensional woven carbon fiber/silica ceramic matrix composites. 2015 , 77, 122-128		25
526	A route to increase fracture toughness of layered Si3N4/SiC composite using interlocked interfaces. <i>Ceramics International</i> , 2015 , 41, 10331-10335	5.1	14
525	Anomalous scaling law of strength and toughness of cellulose nanopaper. 2015 , 112, 8971-6		203
524	Mechanical behavior of a notched oxide/oxide ceramic matrix composite in combustion environment: Experiments and simulations. 2015 , 127, 77-86		29
523	Microstructure and Mechanical Properties of ZTA Ceramic-Lined Composite Pipe Prepared by Centrifugal-SHS. 2015 , 40, 2701-2709		5

(2015-2015)

522	Multiscale damage characterization in continuous fiber ceramic matrix composites using digital image correlation. 2015 , 50, 5286-5299	20
521	Ceramics and ceramic coatings in orthopaedics. 2015 , 35, 4327-4369	126
520	Infiltrated Witu composites with combined architecture of hierarchical particulate tungsten and tungsten fibers. 2015 , 110, 33-38	27
519	FIB/FESEM experimental and analytical assessment of R-curve behavior of WCIIo cemented carbides. 2015 , 645, 142-149	26
518	Electrical discharge machining of metal doped Y-TZP/TiC nanocomposites. 2015, 35, 4031-4037	9
517	Crack Healing in Ti2Al0.5Sn0.5CAl2O3 Composites. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1604-1610	23
516	Modeling the Mechanism of Inelastic Shear at Fiber Interfaces in Material with Unidirectional Structure by Thin Perfectly Plastic Interlayer. 2015 , 47, 460-466	1
515	Toughening mechanisms and mechanical properties of graphene nanosheet-reinforced alumina. 2015 , 88, 1234-1243	75
514	Fabrication and properties of SiC/Si3N4 multilayer composites with different layer thickness ratios by aqueous tape casting. <i>Ceramics International</i> , 2015 , 41, 12917-12922	8
513	Characterization of GNP-Containing Al2O3 Nanocomposites Fabricated via High Frequency-Induction Heat Sintering Route. 2015 , 24, 4236-4243	23
512	Alumina Composites with Metal Particles in Ceramic Matrix. 2015 , 54, 374-379	5
511	Localized mechanical property assessment of SiC/SiC composite materials. 2015, 70, 93-101	50
510	Preparation and properties of yttria doped tetragonal zirconia polycrystal/Sr-doped barium hexaferrite ceramic composites. 2015 , 193, 91-96	6
509	Edge cracking due to a compressive residual stress in ceramic laminates. 2015 , 343, 192-198	5
508	Bioinspired structural materials. 2015 , 14, 23-36	2402
507	Carbon Nanotube Pullout, Interfacial Properties, and Toughening in Ceramic Nanocomposites: Mechanistic Insights from Single Fiber Pullout Analysis. 2015 , 2, 1400110	16
506	Effect of SiC Particles on Mechanical Properties of Laminated (SiCw+SiCp)/SiC Ceramic Composites. 2015 , 12, 535-541	5
505	Comparison of neutron diffraction and Raman spectroscopic studies of the ferroelastic behavior of ceria-stabilized zirconia at elevated temperatures. 2015 , 35, 623-629	4

504	Mechanical properties and rapid consolidation of nanostructured WC and WCAl2O3 composites by high-frequency induction-heated sintering. 2016 , 58, 189-195		18
503	High-Temperature Oxidation of Nickel-Dispersed Mullite Composites in Air. 2016 , 57, 1535-1538		1
502	Preparation and Properties of SiC/Si-B-C-N Ceramic Composites. 2016 , 697, 489-493		2
501	On the possibility to fabricate ceramics using fused deposition modeling. 2016 ,		1
500	Processing and material characterization of a fiber-reinforced ceramic matrix composite used for surge protective device enclosure. 2016 ,		
499	Properties of drawn W wire used as high performance fibre in tungsten fibre-reinforced tungsten composite. 2016 , 139, 012043		27
498	Nanocomposite thin film coatings for brittle materials. 2016 , 2, 162-168		1
497	Enhanced mechanical properties and consolidation of the ultra-fine WCAl2O3 composites using pulsed current activated heating. <i>Ceramics International</i> , 2016 , 42, 9304-9310	5.1	20
496	Strong and ultra-flexible polymer-derived silicon carbonitride nanocomposites by aligned carbon nanotubes. <i>Ceramics International</i> , 2016 , 42, 13359-13367	5.1	14
495	Fracture toughness enhancement of brittle nanostructured materials by spatial heterogeneity: A micromechanical proof for CrN/Cr and TiN/SiOx multilayers. 2016 , 104, 227-234		43
494	Clay Mixtures and the Mechanical Properties of Microporous and Nanoporous Ceramic Water Filters. 2016 , 28, 04016105		6
493	Damage Tolerance, Reliability and Fracture Characteristics of Multilayered Engineering Composites. 2016 ,		1
492	Advanced tungsten materials for plasma-facing components of DEMO and fusion power plants. 2016 , 109-111, 1046-1052		57
491	Determination of mechanical properties of Al2O3/Y-TZP ceramic composites: Influence of testing method and residual stresses. <i>Ceramics International</i> , 2016 , 42, 18700-18710	5.1	22
490	Effect of WC-Co granules on mechanical properties and microstructure of Ti(C,N)-based cermets. <i>Ceramics International</i> , 2016 , 42, 15274-15284	5.1	8
489	Symposium on food properties and primates. 2016 , 98, 1-4		
488	Structure and scale of the mechanics of mammalian dental enamel viewed from an evolutionary perspective. 2016 , 18, 54-61		14
487	Enhanced Sintering of Boron Carbide-Silicon Composites by Silicon. 2016 , 25, 5014-5019		4

486	Effect of loading configuration on strength values in a highly transformable zirconia-based composite. 2016 , 32, e211-9	15
485	Mechanical behavior of mother-of-pearl and pearl with flat and spherical laminations. 2016 , 68, 9-17	15
484	Strengthening in and fracture behaviour of CNT and carbon-fibre-reinforced epoxylhatrix hybrid composite. 2016 , 41, 1443-1461	8
483	Structure and mechanics of interfaces in biological materials. 2016 , 1,	319
482	Backside nanotexturing protected by thin silicon layer for high bending strength ICs. 2016,	
481	Microstructural effects on the sliding-wear resistance of ZrCMoSi 2 triboceramics fabricated by spark-plasma sintering. 2016 , 36, 3091-3097	11
480	Enhancing the sliding-wear resistance of SiC nanostructured ceramics by adding carbon nanotubes. 2016 , 36, 3083-3089	31
479	Neutron diffraction residual stress analysis of Al2O3/Y-TZP ceramic composites. 2016 , 55, 13-23	6
478	Chemically deposited tungsten fibre-reinforced tungsten IThe way to a mock-up for divertor applications. 2016 , 9, 75-83	43
477	Direct observations of erosion-induced ferroelasticity in EB-PVD thermal barrier coatings. 2016 , 51, 3136-314.	53
476	Thermal expansion behavior of hot-pressed engineered matrices. <i>Ceramics International</i> , 2016 , 42, 2557- 2 569	2
475	Carving 3D architectures within glass: Exploring new strategies to transform the mechanics and performance of materials. 2016 , 7, 104-113	37
474	Hydrothermal degradation of a 3Y-TZP translucent dental ceramic: A comparison of numerical predictions with experimental data after 2 years of aging. 2016 , 32, 394-402	34
473	Microstructural evolution of Al2O3I/rO2 (Y2O3) powder de-agglomerated by sodium hydroxide solution soaking. 2016 , 656, 798-804	О
472	[INVITED] Laser gas assisted treatment of Ti-alloy: Analysis of surface characteristics. 2016 , 78, 159-166	8
471	Analytical study on the incorporation of zirconia-based ceramics with carbon nanotubes: Dispersion methods and mechanical properties. <i>Ceramics International</i> , 2016 , 42, 1653-1659	4
47°	Prediction of fracture toughness scatter of composite materials. 2016 , 116, 44-51	10
469	On the Development of Experimental Methods for the Determination of Fracture Mechanical Parameters of Ceramics. 2016 , 197-214	2

468	Interpenetrating network ceramic-resin composite dental restorative materials. 2016, 32, 34-42		79
467	Recycling of Polyethylene into Strong and Tough Earth-Based Composite Building Materials. 2016 , 28, 04015104		10
466	The role of cohesive zone properties on intergranular to transgranular fracture transition in polycrystalline solids. 2017 , 26, 379-394		16
465	Evaluation of the geopolymer/nanofiber interfacial bond strength and their effects on Mode-I fracture toughness of geopolymer matrix at high temperature. 2017 , 24, 817-831		15
464	Pulse electric current sintering of 3D interpenetrating SiC/Al composites. <i>Ceramics International</i> , 2017 , 43, 2867-2870	5.1	8
463	First-principles study of interfacial interaction between carbon nanotube and Al2O3(0001). 2017 , 121, 025304		5
462	Liquid-phase assisted spark-plasma sintering of SiC nanoceramics and their nanocomposites with carbon nanotubes. 2017 , 37, 1929-1936		28
461	A review on mechanics and mechanical properties of 2D materials (Graphene and beyond. 2017 , 13, 42-77		581
460	Nature-inspired design of strong, tough glass-ceramics. 2017 , 42, 220-225		25
459	Using graphene networks to build bioinspired self-monitoring ceramics. 2017 , 8, 14425		71
458	From bulk to cellular structures: A review on ceramic/graphene filler composites. 2017 , 37, 3649-3672		103
457	Effect of initial cure time on toughness of geopolymer matrix composites. <i>Ceramics International</i> , 2017 , 43, 9884-9890	5.1	8
456	Effect of zirconia and iron on the mechanical properties of Al2O3/TiC composites processed using combined self-propagating synthesis and direct consolidation technique. 2017 , 696, 182-189		10
455	Zirconia ceramics with additions of Alumina for advanced tribological and biomedical applications. <i>Ceramics International</i> , 2017 , 43, 9746-9752	5.1	34
454	Development of advanced high heat flux and plasma-facing materials. 2017 , 57, 092007		137
453	Microstructure, mechanical behaviour and fracture of pure tungsten wire after different heat treatments. 2017 , 68, 29-40		42
452	Zirconia-Based Powders Produced by Plasma-Spray Pyrolisys and Properties of Sintered Ceramics. Journal of Physics: Conference Series, 2017 , 790, 012015	0.3	3
451	Mechanical energy dissipation in natural ceramic composites. 2017 , 76, 21-29		8

450	Ductile behavior of fine-grained, carbon-bonded materials at elevated temperatures. 2017, 122, 141-14	19	15
449	■ Moward seashells under stress Bioinspired concepts to design tough layered ceramic composites. 2017 , 37, 3823-3839		17
448	Toughness evolution in Gd- and Y-stabilized zirconia thermal barrier materials upon high-temperature exposure. 2017 , 52, 7199-7206		5
447	Ferroelectric glass-ceramics. 2017 , 42, 213-219		11
446	Properties and microstructure evolution of Cf/SiC composites fabricated by polymer impregnation and pyrolysis (PIP) with liquid polycarbosilane. <i>Ceramics International</i> , 2017 , 43, 7387-7392	5.1	31
445	Mechanical properties of as-fabricated and 2300 LC annealed tungsten wire tested up to 600 LC. 2017 , 66, 127-134		24
444	Compressive and fatigue behavior of beta-type titanium porous structures fabricated by electron beam melting. <i>Acta Materialia</i> , 2017 , 126, 58-66	8.4	199
443	Dy 2 O 3 stabilized ZrO 2 as a toughening agent for Gd 2 Zr 2 O 7 ceramic. 2017 , 188, 142-144		16
442	Preparation of silicon carbide ceramics using chemical treated powder by DCC via dispersant reaction and liquid phase sintering. 2017 , 37, 891-897		24
441	Silicon nitride-based composites reinforced with zirconia nanofibres. <i>Ceramics International</i> , 2017 , 43, 16811-16818	5.1	12
440	Fracture toughness of WC-Fe cermet in W-WC-Fe composite by nanoindentation. 2017 , 728, 788-796		20
439	Microstructural stability of spark-plasma-sintered Wf/W composite with zirconia interface coating under high-heat-flux hydrogen beam irradiation. 2017 , 13, 74-80		4
438	Fracture toughness and R-curve behavior of BCP/YTZP nanocomposites produced using the spark plasma sintering process. 2017 , 725, 623-631		2
437	Nanostructured laminar tungsten alloy with improved ductility by surface mechanical attrition treatment. 2017 , 7, 1351		10
436	Mechanical properties and microstructure of Al2O3-TiB2-TiSi2 ceramic tool material. <i>Ceramics International</i> , 2017 , 43, 14192-14199	5.1	9
435	Preparation of a flexible high emissivity coating on quartz fiber fabric for thermal protection. <i>Ceramics International</i> , 2017 , 43, 14292-14300	5.1	16
434	Mechanical behavior of 2D and 3D weaved SiC-matrix, carbon-continuous-fibre-reinforced composites: Part 2. Fracture toughness under static loading conditions. 2017 , 182, 52-61		8
433	Crack propagation simulation of polycrystalline cubic boron nitride abrasive materials based on cohesive element method. 2017 , 138, 302-314		9

432	Ceramic Matrix Composites (CMCs) for Aerospace Applications. 2017, 371-389		6
431	Monolithic Ceramics for Aerospace Applications. 2017 , 415-437		
430	Strength and toughness of nanocrystalline SiO2 stishovite toughened by fracture-induced amorphization. <i>Acta Materialia</i> , 2017 , 124, 316-324	8.4	6
429	Current Advancements in Ceramic Matrix Composites. 2017, 457-496		2
428	Grain boundary design of thin films: Using tilted brittle interfaces for multiple crack deflection toughening. <i>Acta Materialia</i> , 2017 , 122, 130-137	8.4	48
427	Mechanical Behaviour of 2D and 3D Weaved SiC-Matrix, Carbon Continuous-Fibre-Reinforced Composites: Part 1. Flexural Strength Under Static Loading Conditions. 2017 , 70, 1245-1250		2
426	Lamellar-interpenetrated AlBiMg/Al2O3IrO2 composites prepared by freeze casting and pressureless infiltration. <i>Ceramics International</i> , 2017 , 43, 3292-3297	5.1	18
425	The microstructure, coefficient of thermal expansion and flexural strength of cordierite ceramics prepared from alumina with different particle sizes. 2017 , 37, 739-746		50
424	A Novel Design Approach for Self-Crack-Healing Structural Ceramics with 3D Networks of Healing Activator. 2017 , 7, 17853		39
423	Influence of Heating Conditions for Formation of a Thin Apatite Film on Zirconia Using a Molecular Precursor Method. 2017 , 7, 69		3
422	Fatigue in Ceramic Matrix Composites. 2017 ,		О
421	Effect of SiC addition on mechanical properties of hot-pressed Al2O3-GdAlO3 ceramics with eutectic composition. <i>Ceramics International</i> , 2018 , 44, 9585-9592	5.1	4
420	Intermittent beading in fiber composites. 2018 , 160, 21-31		15
419	Nonbrittle nanopore deformation of anodic aluminum oxide membranes. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2170-2180	3.8	11
418	Automated 3D assembly of periodic alumina-epoxy composite structures. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3864-3873	3.8	12
417	Strong and super tough: Layered ceramic-polymer composites with bio-inspired morphology. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4732-4742	3.8	7
416	Enhancing the yield of polycarbosilane synthesis via recycling of liquid by-product at atmospheric pressure. <i>Ceramics International</i> , 2018 , 44, 6474-6478	5.1	9
415	Plastic deformation of recrystallized tungsten-potassium wires: Constitutive deformation law in the temperature range 22B00 °C. 2018 , 73, 38-45		8

414	Static mode fatigue crack propagation and generalized stress intensity correlation for fatigueBrittle polymers. 2018 , 210, 213-221		2	
413	Al2O3-TiC Composite Prepared by Spark Plasma Sintering Process: Evaluation of Mechanical and Tribological Properties. 2018 , 27, 997-1004		2	
412	Fabrication and Mechanical Characterization of Nanoporous Ceramic Composites for Potential Toughening. 2018 ,			
411	High-temperature compressive creep of novel fine-grained orthorhombic ZrO2 ceramics stabilized with 12 mol% Ta doping. 2018 , 38, 2445-2448		3	
410	Effects of additive amount, testing method, fabrication process and sintering temperature on the mechanical properties of Al2O3/3Y-TZP composites. 2018 , 191, 446-460		22	
409	Bioinspired sutured materials for strength and toughness: Pullout mechanisms and geometric enrichments. 2018 , 138, 118-133		15	
408	Modelling shear behaviors of 2D C/SiC z-pinned joint prepared by chemical vapor infiltration. Ceramics International, 2018 , 44, 6433-6442	5.1	5	
407	Crack bridging in as-fabricated and embrittled tungsten single fibre-reinforced tungsten composites shown by a novel in-situ high energy synchrotron tomography bending test. 2018 , 15, 1-12		13	
406	Evaluation of the ceramic liner bonding effect between zirconia and lithium disilicate. 2018 , 120, 282-289	€	9	
405	The effects of dry and wet grinding on the strength of dental zirconia. <i>Ceramics International</i> , 2018 , 44, 10451-10462	5.1	13	
404	Synergistic effects of processing and nanofiber reinforcement on the mechanical and ferroelectric performance of geopolymer matrix composites. 2018 , 7, 45-54		4	
403	Fatigue of double-network hydrogels. 2018 , 187, 74-93		96	
402	Strong and tough metal/ceramic micro-laminates. <i>Acta Materialia</i> , 2018 , 144, 202-215	8.4	47	
401	Influence of porosity on mechanical properties of tetragonal stabilized zirconia. 2018 , 38, 1720-1735		30	
400	Fracture behavior of Ce-TZP/alumina/aluminate composites with different amounts of transformation toughening. Influence of the testing methods. 2018 , 38, 1778-1789		18	
399	The role of carbon and tungsten disulphide nanotubes in the fracture of polymer-interlayered ceramic composites: a microscopy study. 2018 , 53, 5879-5890		3	
398	Observations of grain boundary chemistry variations in a boron carbide processed with oxide additives. 2018 , 142, 106-110		15	
397	Minimum energy multiple crack propagation. Part I: Theory and state of the art review. 2018 , 191, 205-22	24	46	

396	Modification and toughening of 3D needled C/SiC composite by deformable MAX phase-based matrix. 2018 , 712, 397-405	9
395	Resistance curves of short-fiber reinforced methacrylate-based biomedical composites. 2018 , 190, 146-158	11
394	Fabrication and properties of 3-dimensional 4-directional Cf/HfC-SiC composites by precursor impregnation and pyrolysis process. 2018 , 739, 955-960	13
393	Evaluating the toughness of APS and HVOF-sprayed Al2O3-ZrO2-coatings by in-situ- and macroscopic bending. 2018 , 38, 1908-1918	18
392	Effect of Cation Composition on the Mechanical Stability of Perovskite Solar Cells. 2018, 8, 1702116	84
391	Hybrid electrolytes with 3D bicontinuous ordered ceramic and polymer microchannels for all-solid-state batteries. 2018 , 11, 185-201	176
390	Synthesis and characterisation of AlMgB14 and AlMgB14-Ni3Al composites. 2018 , 11, 348	
389	. 2018,	1
388	Microstructural Effects. 2018, 207-222	
387	The Effect of TiC Additive on Mechanical and Electrical Properties of Al2O3 Ceramic. 2018, 8, 2385	20
386	Progress in research and development on matrix modification of continuous fiber-reinforced silicon carbide matrix composites. 2018 , 1, 685-695	8
385	Geometric micromechanical modeling of structure changes, fracture and grain boundary layers in polycrystals. 2018 , 03, 1840001	6
384	A new multiscale phase field method to simulate failure in composites. 2018 , 126, 9-33	40
383	Microstructure and mechanical properties of 3Y-TZP dental ceramics fabricated by selective laser sintering combined with cold isostatic pressing. 2018 , 1, 239-245	17
382	Phase Composition, Thermal Conductivity, and Toughness of TiO2-Doped, Er2O3-Stabilized ZrO2 for Thermal Barrier Coating Applications. 2018 , 8, 253	8
381	Synthesis, characterization, and ceramic conversion of a liquid polymeric precursor to SiBCN ceramic via borazine-modified polymethylsilane. 2018 , 53, 11242-11252	7
380	The effect of surface treatments on dental zirconia: An analysis of biaxial flexural strength, surface roughness and phase transformation. 2018 , 75, 65-73	19
379	Hydrogel ionotronics. 2018 , 3, 125-142	643

378	Stress fluctuation, crack renucleation and toughening in layered materials. 2018, 120, 68-78		15
377	Fracture characterization of ceria partially stabilized zirconia using the GMTSN criterion. 2018 , 199, 647-6	57	17
376	Electrostatic self-assembly preparation of reduced graphene oxide-encapsulated alumina nanoparticles with enhanced mechanical properties of alumina nanocomposites. 2018 , 38, 5122-5133		14
375	Effect of pyrolytic carbon coating on the microstructure and fracture behavior of the Cf/ZrB2-SiC composite. <i>Ceramics International</i> , 2018 , 44, 19612-19618	.1	24
374	Microstructural Features and Electrophysical Characteristics of Ceramic©rystal Matrix Composites. 2018 , 82, 310-313		7
373	Fabrication of a novel Al2O3-Ti(C0.7N0.3)-cBN composite with excellent performance in the turning of difficult-to-machine stellite alloys. <i>Ceramics International</i> , 2018 , 44, 12815-12824	.1	3
372	Porous (SiCw-Si3N4w)/(Si3N4-SiC) composite with enhanced mechanical performance fabricated by 3D printing. <i>Ceramics International</i> , 2018 , 44, 14122-14127	.1	8
371	Macro-indentation fracture mechanisms in a super-hard hardfacing Fe-based electrode. 2018 , 92, 480-494	4	6
370	Siloxane Precursor-Based Protective Coatings for High Modulus Carbon Fibers in Ceramic Matrix Composites. 2018 , 1, 128-138		1
369	Simultaneous improvements of strength and toughness in topologically interlocked ceramics. 2018 , 115, 9128-9133		43
368	Textile preforms for tungsten fibre-reinforced composites. 2018 , 52, 3875-3884		15
367	Visualizing the toughening origins of gel-grown calcite single-crystal composites. 2018 , 29, 1666-1670		10
366	A review of an innovative concept to increase the toughness of the ceramics by piezoelectric secondary phases. <i>Ceramics International</i> , 2018 , 44, 16119-16127	;.1	13
365	Insight into single-fiber push-out test of tungsten fiber-reinforced tungsten. 2019 , 26, 107-126		5
364	Microstructure, mechanical and ablation behaviour of C/SiCBi with different preforms. <i>Ceramics International</i> , 2019 , 45, 23104-23110	.1	4
363	Graphite interface mediated grain-boundary sliding leads to enhanced mechanical properties of nanocrystalline silicon carbide. 2019 , 7, 100394		1
362	Design and Development of Hybrid AlO Based Composites with Toughening and Self-Lubricating Second-Phase Inclusions. <i>Materials</i> , 2019 , 12,	··5	4
361	Effect of a diffusion-enhancing hole on the densification of a thick-section 2D C/SiC composite. 2019 , 39, 4609-4616		3

360	Dual phase nano-particulate AlN composite IA kind of ceramics with high strength and ductility. Ceramics International, 2019 , 45, 19845-19855	3
359	Investigation of microstructure-property relantionships of magnesia-hercynite refractory composites by a refined digital image correlation technique. 2019 , 39, 3893-3902	13
358	A novel strategy to obtain superfine modified SiC powder with binary modifier-disperse black/sodium alginate and its mechanism study. 2019 , 6, 115108	1
357	Inspection of thermal stress parameters of high temperature ceramics and energy absorber materials. 2019 , 203, 110160	2
356	Engineering resilience with precast monolithic refractory articles. <i>International Journal of Ceramic Engineering & Science</i> , 2019 , 1, 169-177	
355	Strengthening thick-section 3D needled C/SiC composites by tuning matrix deposition. <i>Ceramics International</i> , 2019 , 45, 8058-8062	6
354	Optimization of the properties in Al/SiC composites by tailoring microstructure through gelatin freeze casting. 2019 , 748, 286-293	9
353	MWCNT-coated alumina micro-platelets for nacre-like biomimetic composites. 2019 , 145, 586-595	6
352	Extremely toughened Ti-based solid-solution carbide cermets. 2019 , 784, 906-914	15
351	Tearing a hydrogel of complex rheology. 2019 , 125, 749-761	19
350	Competing failure mechanisms in metal matrix composites and their effects on fracture toughness. 2019 , 5, 100238	3
349	Variation of phase composition of Mo-Si-B alloys induced by boron and their mechanical properties and oxidation resistance. 2019 , 749, 196-209	15
348	Chip morphology and surface integrity in ultraprecision cutting of yttria-stabilized tetragonal zirconia polycrystal. 2019 , 68, 53-56	7
347	Fabrication and mechanical properties of 3-D Cf/C-SiC-TiC composites prepared by RMI. 2019 , 798, 784-789	13
346	Zirconia: A Unique Multifunctional Ceramic Material. 2019 , 72, 1981-1998	7
345	High-temperature tribological behavior of a NiCoCrAlY/ZrO2 duplex coating on ETiAl alloy. 2019 , 6, 0865h8	
344	Characteristics evaluation of SiC/Si nanocomposites produced by spark plasma sintering. 2019 , 35, 1204-1211	2
343	Strength and toughness. 2019 , 487-535	1

(2019-2019)

342	Microstructural studies of core/rim structure of polycarbosilane-derived SiC consolidated by spark plasma sintering. <i>Ceramics International</i> , 2019 , 45, 12406-12410	5.1	2
341	Production of tungsten-fibre reinforced tungsten composites by a novel continuous chemical vapour deposition process. 2019 , 146, 1426-1430		9
340	Densification behavior and mechanical properties of spark plasma reaction sintered ZrB2\(\mathbb{Z}\)rC-B4C ceramics from B4C-Zr system. Ceramics International, 2019, 45, 12122-12129	5.1	15
339	Mechanical size effects of amorphous polymer-derived ceramics at the nanoscale: experiments and ReaxFF simulations. 2019 , 11, 7447-7456		13
338	Synthesis and Characterization of Alumina-Zirconia Ceramic Thin Film Deposited Using a Dense Plasma Focus (DPF) device. 2019 , 68, 22-29		2
337	Wild boar's tusk enamel: Structure and mechanical behavior. 2019 , 100, 354-362		2
336	Stretchable materials of high toughness and low hysteresis. 2019 , 116, 5967-5972		142
335	Mechanical strength enhancement of low temperature co-fired multilayer ceramic substrates by introducing residual stress. <i>Ceramics International</i> , 2019 , 45, 10982-10990	5.1	2
334	3D microstructure and crack pathways of toughened CaOAl2O3BiO2 glass by precipitation of hexagonal CaAl2Si2O8 crystal. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5535-5544	3.8	11
333	Yttria Ceria Co-Stabilized Zirconia Reinforced with Alumina and Strontium Hexaaluminate. 2019 , 9, 729		6
332	Investigation of mechanical strength of the functionally graded zirconia-mullite/alumina ceramics tailored for high temperature applications. 2019 , 6, 075516		4
331	Microstructure and mechanical properties of Si3N4f/Si3N4 composites with different coatings. <i>Ceramics International</i> , 2019 , 45, 13308-13314	5.1	9
330	Microstructure, mechanical properties and toughening mechanisms of graphene reinforced Al2O3-WC-TiC composite ceramic tool material. <i>Ceramics International</i> , 2019 , 45, 10321-10329	5.1	20
329	PHASE COMPOSITION STABILITY OF NANOSTRUCTURED COMPOSITE CERAMICS BASED ON CaO ū rO2 UNDER HYDROTHERMAL IMPACT. 2019 , 14, 125-131		5
328	Mechanical Response of ZrB2BiCℤrO2 Composite Laminate. 2019 , 62, 1438-1444		5
327	Toughness by segmentation: Fabrication, testing and micromechanics of architectured ceramic panels for impact applications. 2019 , 158, 52-65		30
326	Microstructure and mechanical properties of TiC-Fe surface gradient coating on a pure titanium substrate prepared in situ. 2019 , 771, 406-417		17
325	Fabrication of dense B4C-preceramic polymer derived SiC composite. 2019 , 39, 718-725		12

324 Seismotectonics. **2019**, 278-336

Effect of competing mechanisms on fracture toughness of metals with ductile grain structures. Beffect of competing mechanisms on fracture toughness of metals with ductile grain structures. Beffect of competing mechanisms on fracture toughness of metals with ductile grain structures. Beffect of competing mechanisms on fracture toughness of metals with ductile grain structures. Beffect of competing mechanisms on fracture toughness of metals with ductile grain structures. Beffect of competing mechanisms on fracture toughness of metals with ductile grain structures. Beffect of competing mechanisms on fracture toughness of metals with ductile grain structures. Beffect of competing mechanisms on fracture toughness of metals with ductile grain structures. Beffect of competing mechanisms on fracture toughness of metals with ductile grain structures. Beffect of competing mechanisms on fracture toughness of metals with ductile grain structures. Beffect of competing structures. Beference structures. Beffect of competing structures. Beffect of				
2019, 205, 14-27 321 Preface to the first edition. 2019, xi-xiv 322 Preface to the second edition. 2019, xv-xvi 323 Preface to the third edition. 2019, xv-xvi 324 Brittle fracture of rock. 2019, 1-42 327 Rock friction. 2019, 43-96 2 Mechanics of earthquakes. 2019, 166-227 328 References. 2019, 381-486 329 Mechanics of faulting. 2019, 97-165 330 Mechanics of faulting. 2019, 97-165 341 Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. Surface and Coatings Technology, 2019, 371, 245-254 342 Microstructure and mechanical properties study of slip-cast copperBlumina composites. 2019, 1, 1 343 Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. 344 Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	323	Earthquake prediction and hazard analysis. 2019 , 337-380		1
Preface to the second edition. 2019, xv-xvi Preface to the third edition. 2019, xvii-xviii Brittle fracture of rock. 2019, 1-42 Rock friction. 2019, 43-96 Rock friction. 2019, 43-96 References. 2019, 166-227 The seismic cycle. 2019, 228-277 References. 2019, 381-486 Index. 2019, 487-494 References. 2019, 487-494 Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. Anisotropy of fracture and mechanical properties study of slip-cast copperfillumina composites. 2019, 1, 1 Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. Tribological properties of Mullite/JY-TZP ceramics with different content of mullite fabricated by Tribological properties of Mullite/JY-TZP ceramics with different content of mullite fabricated by	322			8
Preface to the third edition. 2019, xvii-xviii Brittle fracture of rock. 2019, 1-42 Rock friction. 2019, 43-96 Mechanics of earthquakes. 2019, 166-227 The seismic cycle. 2019, 228-277 References. 2019, 381-486 Index. 2019, 487-494 Mechanics of faulting. 2019, 97-165 Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. Surface and Coatings Technology, 2019, 371, 245-254 Microstructure and mechanical properties study of slip-cast copperBlumina composites. 2019, 1, 1 Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	321	Preface to the first edition. 2019 , xi-xiv		
Brittle fracture of rock. 2019, 1-42 317 Rock friction. 2019, 43-96 2 318 Mechanics of earthquakes. 2019, 166-227 319 The seismic cycle. 2019, 228-277 310 References. 2019, 381-486 310 Index. 2019, 487-494 311 Mechanics of faulting. 2019, 97-165 312 Mechanics of faulting. 2019, 97-165 313 Otheracterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. Surface and Coatings Technology, 2019, 371, 245-254 310 Microstructure and mechanical properties study of slip-cast copperBlumina composites. 2019, 1, 1 311 Office and Coatings Technology, 2019, 371, 245-254 312 Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. 19 318 Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	320	Preface to the second edition. 2019 , xv-xvi		
Rock friction. 2019, 43-96 Mechanics of earthquakes. 2019, 166-227 The seismic cycle. 2019, 228-277 References. 2019, 381-486 Index. 2019, 487-494 Mechanics of faulting. 2019, 97-165 Mechanics of faulting. 2019, 97-165 Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	319	Preface to the third edition. 2019 , xvii-xviii		
Mechanics of earthquakes. 2019, 166-227 1 The seismic cycle. 2019, 228-277 1 The seismic cycle. 2019, 381-486 1 Index. 2019, 487-494 1 Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. Surface and Coatings Technology, 2019, 371, 245-254 44 11 Microstructure and mechanical properties study of slip-cast copperfilumina composites. 2019, 1, 1 6 Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. 19 Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	318	Brittle fracture of rock. 2019 , 1-42		
Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by The seismic cycle. 2019, 228-277 The seis	317	Rock friction. 2019 , 43-96		2
References. 2019, 381-486 1 313 Index. 2019, 487-494 314 Mechanics of faulting. 2019, 97-165 317 Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. 318 Surface and Coatings Technology, 2019, 371, 245-254 319 Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. 310 Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	316	Mechanics of earthquakes. 2019 , 166-227		1
Index. 2019, 487-494 Mechanics of faulting. 2019, 97-165 Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. Surface and Coatings Technology, 2019, 371, 245-254 Microstructure and mechanical properties study of slip-cast copperflumina composites. 2019, 1, 1 Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	315	The seismic cycle. 2019 , 228-277		1
Mechanics of faulting. 2019, 97-165 Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. Surface and Coatings Technology, 2019, 371, 245-254 4.4 11 Microstructure and mechanical properties study of slip-cast copperBlumina composites. 2019, 1, 1 Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. 2019, 161, 80-85 Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	314	References. 2019 , 381-486		1
Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. Surface and Coatings Technology, 2019, 371, 245-254 Microstructure and mechanical properties study of slip-cast copperBlumina composites. 2019, 1, 1 Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. 2019, 161, 80-85 Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	313	Index. 2019, 487-494		
Surface and Coatings Technology, 2019, 371, 245-254 Microstructure and mechanical properties study of slip-cast copperBlumina composites. 2019, 1, 1 Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. 2019, 161, 80-85 Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	312	Mechanics of faulting. 2019, 97-165		3
Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. 2019, 161, 80-85 Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	311		4	11
Tribological properties of Mullite/3Y-TZP ceramics with different content of mullite fabricated by	310	Microstructure and mechanical properties study of slip-cast copper∄lumina composites. 2019 , 1, 1		6
	309			19
	308			3
Composition-microstructure-mechanical property relationships and toughening mechanisms of GdPO4-doped Gd2Zr2O7 composites. 2019 , 161, 473-482	307			12

(2020-2019)

306	A review of computational modeling techniques in study and design of shape memory ceramics. 2019 , 160, 120-136	16
305	The fracture mechanics of biological and bioinspired materials. 2019 , 44, 46-52	18
304	Use of interphase in geopolymer matrix composites for improved toughness. <i>Ceramics International</i> , 2019 , 45, 5139-5149	3
303	Characterization of Powder-Precursor HVOF-Sprayed Al2O3-YSZ/ZrO2 Coatings. 2019 , 28, 98-107	11
302	Fatigue of hydrogels. 2019 , 74, 337-370	104
301	Bioactive Glass Scaffolds for Bone Tissue Engineering. 2019 , 417-442	4
300	Hydrogel Adhesion: A Supramolecular Synergy of Chemistry, Topology, and Mechanics. 2020 , 30, 1901693	255
299	Complex micro-nano structure of ceramic-metal composites. 2020 , 75, 106-109	O
298	Direct coagulation casting of silicon carbide suspension via polyelectrolyte dispersant crosslink reaction. 2020 , 17, 274-284	2
297	Effect of interfacial residual thermal stress on the fracture behavior of Cf/B4C composites prepared by spark plasma sintering. <i>Ceramics International</i> , 2020 , 46, 4587-4594	6
296	Forty years after the promise of @ceramic steel?\(\mathbb{B}\): Zirconia-based composites with a metal-like mechanical behavior. Journal of the American Ceramic Society, 2020 , 103, 1482-1513	39
295	Advances in Powder and Ceramic Materials Science. 2020 ,	
294	A Materials Perspective on the Design of Damage-Resilient Bone Implants Through Additive/Advanced Manufacturing. 2020 , 72, 1195-1210	5
293	Nanotechnology Scaffolds for Alveolar Bone Regeneration. <i>Materials</i> , 2020 , 13, 3.5	33
292	Advanced functional surfaces through controlled damage and instabilities. 2020, 7, 366-396	16
291	Continuous alumina fiber-reinforced yttria-stabilized zirconia composites with high density and toughness. 2020 , 40, 1539-1548	10
290	Rising R-curves in particulate/fiber-reinforced resin composite layered systems. 2020 , 103, 103537	9
289	Bioinspired and Biomimetic Design of Multilayered and Multiscale Structures. 2020 , 3-19	

288 Bioinspired Design for Energy Storage Devices. **2020**, 193-211

287	Bioinspired Underwater Propulsors. 2020 , 113-139	1
286	Evading strength-plasticity conflict in microstructure-optimized Fe-Cu-Ni-P sintered alloy via layered-composite powder. 2020 , 14, 100903	1
285	Aquatic Animals Operating at High Reynolds Numbers. 2020 , 235-270	1
284	Self-healing by design: universal kinetic model of strength recovery in self-healing ceramics. 2020 , 21, 593-608	7
283	Multi-scale interface design of strong and damage resistant hierarchical nanostructured materials. 2020 , 196, 109169	6
282	Advanced superhard composite materials with extremely improved mechanical strength by interfacial segregation of dilute dopants. 2020 , 10, 21008	2
281	Mechanics Design in Cellulose-Enabled High-Performance Functional Materials. 2021 , 33, e2002504	25
280	Advanced bio-inspired structural materials: Local properties determine overall performance. 2020 , 41, 177-199	18
279	Preface. 2020 , xi-xii	
278	Bioinspired Design of Dental Functionally Graded Multilayer Structures. 2020, 140-166	
277	Bionic Organs. 2020 , 167-192	1
276	Bioinspired Design of Nanostructures. 2020 , 212-232	
275	Flying of Insects. 2020 , 271-299	1
274	Bioinspired Building Envelopes. 2020 , 343-354	
273	Index. 2020 , 355-360	
272	Human Cortical Bone as a Structural Material. 2020 , 20-44	
271	Bamboo-Inspired Materials and Structures. 2020 , 89-110	3

270 Designing Nature-Inspired Liquid-Repellent Surfaces. **2020**, 300-319

269	Biomimetic and Soft Robotics. 2020 , 320-342	
268	Methods Used for the Compaction and Molding of Ceramic Matrix Composites Reinforced with Carbon Nanotubes. 2020 , 8, 1004	10
267	Bioinspired Design of Multilayered Composites. 2020 , 45-88	
266	A simple method for predicting the machinability in microwave cutting ceramics with microwave-induced thermal-crack propagation. 2020 , 109, 2639-2651	
265	Asbestos-Based Pottery from Corsica: The First Fiber-Reinforced Ceramic Matrix Composite. Materials, 2020, 13, 3.5	3
264	The Influence of Silicon Dioxide on the Stability of the Phase Composition and Mechanical Properties of Alumina-Toughened Zirconia-Based Ceramics. 2020 , 65, 2016-2025	6
263	Probing the Mechanical Properties of a Doped LiLaZrO Garnet Thin Electrolyte for Solid-State Batteries. 2020 , 12, 24693-24700	10
262	Additive manufacturing of polymer-derived ceramic matrix composites. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6712-6723	13
261	Electrical Discharge Machining Non-Conductive Ceramics: Combination of Materials. 2020, 8, 32	9
260	Fracture properties of thin film TiN at elevated temperatures. 2020 , 194, 108885	18
259	Structural Ceramic Oxides. 2020 , 319-326	
258	Mechanical properties and tempering resistance of an ultrafine grained Tool Steel-PSZ composite fabricated by high energy mechanical milling and spark plasma sintering. 2020 , 786, 139428	2
257	Ferroelastic toughening of single crystalline yttria-stabilized t' zirconia: A phase field study. 2020 , 233, 107077	4
256	Strong and tough nacre-like aluminas: ProcessEtructureBerformance relationships and position within the nacre-inspired composite landscape. 2020 , 35, 1076-1094	13
255	Micro hole fabrication in TiN-Al2O3 ceramic composite by SiC powder assisted micro- EDM. 2020 , 2, 015028	3
254	Adsorption Isotherm, Kinetic and Mechanism Studies on the Surface Modification of SiC powder with Disperse Black BL. 2020 , 5, 1157-1163	1
253	Microstructure and Fracture Toughness of Compact TiC-Fe Gradient Coating Fabricated on Cast Iron Substrate by Two-Step In Situ Reaction. 2020 , 72, 2154-2163	2

252	Flexible Composite Materials Between Inorganic Fibers and Organic Polymers. 2020, 21, 628-635		1
251	Preparation, mechanical properties, and toughening mechanisms of SiCw/SiCp-reinforced zirconia-toughened alumina ceramics. 2020 , 17, 2083-2093		3
250	Injection Molding of 3-3 Hydroxyapatite Composites. <i>Materials</i> , 2020 , 13,	3.5	7
249	A Review of 3D Printing Technologies for Soft Polymer Materials. 2020 , 30, 2000187		148
248	A Multiscale Framework for Designing High-Toughness Composite Materials. 2020 , 17, 1940008		
247	Inverse correlations between wear and mechanical properties in biphasic dental materials with ceramic constituents. 2020 , 105, 103722		5
246	3D Ion-Conducting, Scalable, and Mechanically Reinforced Ceramic Film for High Voltage Solid-State Batteries. 2021 , 31, 2002008		5
245	Effect of MgO on physical and mechanical properties of dental porcelain. 2021 , 58, 42-49		
244	Bioceramic composites for orthopaedic applications: A comprehensive review of mechanical, biological, and microstructural properties. <i>Ceramics International</i> , 2021 , 47, 3013-3030	5.1	29
243	Graphene-alumina nanostructured hybrid: synthesis with use dodecylamine and physicochemical properties. 2021 , 29, 431-441		2
242	Microstructure and mechanical properties of 3D Cf/SiBCN composites fabricated by polymer infiltration and pyrolysis. 2021 , 10, 28-38		13
241	Reinforcement of alumina with carbon nano cones and characterization. <i>Materials Today: Proceedings</i> , 2021 , 35, 57-61	1.4	1
240	Verhalten unterschiedlicher Implantatwerkstoffe unter mechanischer Belastung. 2021, 1-18		
239	Glass and Glass-Ceramic Matrix Composites for Advanced Applications: Part I: Properties and Manufacturing Technologies. 2021 , 277-287		
238	Micromechanics modeling of fracture. 2021 , 81-99		
237	Subcritical Crack Growth: Basic Relations and Experimental Evaluation. 2021 , 797-810		1
236	Dislocation-toughened ceramics. 2021 , 8, 1528-1537		12
235	Manufacturing and Characterization of Epoxy Matrix Hybrid Nanocomposite. 2021 , 1057, 012009		

234	Fabrication methods and fracture behaviour of zirconia toughened alumina (ZTA) nano composite ceramic: A review. <i>Materials Today: Proceedings</i> , 2021 ,	1.4	1
233	Transformation toughness induced by surface tension of the crack-tip process zone interface: A field-theoretical approach. 2021 , 103, 023001		О
232	Toughening cemented carbides by phase transformation of zirconia. 2021 , 202, 109559		7
231	Microstructure, mechanical, and thermal properties of graphene and carbon nanotube-reinforced Al2O3 nanocomposites. 2021 , 32, 13656-13672		1
230	Grain Size Effect of the IPhase Precipitation on Martensitic Transformation and Mechanical Properties of Ni-Mn-Sn-Fe Heusler Alloys. <i>Materials</i> , 2021 , 14,	3.5	О
229	Bond Switching in Densified Oxide Glass Enables Record-High Fracture Toughness. 2021 , 13, 17753-1776	5	9
228	Microstructure and mechanical properties of Zr3Al3C5-based ceramics synthesized by Al-Si melt infiltration. 2021 , 10, 529-536		1
227	The MoNIIaN system: Role of vacancies in phase stability and mechanical properties. 2021 , 202, 109568		2
226	Mitigating the formation of amorphous shear band in boron carbide. 2021 , 129, 140902		2
225	Mechanical Properties of CaOIAl2O3BiO2 Glass-Ceramics Precipitating Hexagonal CaAl2Si2O8 Crystals. 2021 , 11, 393		8
224	Strong, elastic, and tough high internal phase emulsions stabilized solely by cod myofibers for multidisciplinary applications. 2021 , 412, 128724		14
223	Air-Stable LixAl Foil as Free-Standing Electrode with Improved Electrochemical Ductility by Shot-Peening Treatment. 2021 , 31, 2100978		3
222	Quantitative in-situ study of strength-governed interfacial failure between h-BN and polymer-derived ceramic. <i>Acta Materialia</i> , 2021 , 210, 116832	8.4	0
221	Titanium mesh-reinforced calcium sulfate for structural bone grafts. 2021 , 118, 104461		1
220	Organomorphic carbon@arbon composite for hot pressing molds.		
219	Transparent materials with stiff and tough hierarchical structures. 2021 , 6, 100109		1
218	Toughening materials: enhancing resistance to fracture. 2021 , 379, 20200437		6
217	Toughness of a composite in which sliding between fibers and matrix is rate-sensitive. 2021 , 46, 101317		2

216	Stress Corrosion Cracking in Amorphous Phase Separated Oxide Glasses: A Holistic Review of Their Structures, Physical, Mechanical and Fracture Properties. 2021 , 2, 412-446	O
215	Performance evaluation of self lubricating CuO added ZTA ceramic inserts in dry turning application. 2021 , 98, 105551	4
214	Impact of changes in sintering temperatures on characteristics of 4YSZ and 5YSZ. 2021, 120, 104586	5
213	QCM Analysis for Two-Step Adsorption of Albumin and Fibronectin on Zirconia Surface. 2021 , 2021, 1-8	
212	Evolution of Damage in All-Oxide Ceramic Matrix Composite After Cyclic Loading. 2100763	1
211	Enhanced working stability of elastocaloric effects in polycrystalline Ni-Fe-Ga dual phase alloy. 2021 , 136, 107255	1
210	Toughening of Bioceramic Composites for Bone Regeneration. 2021 , 5, 259	4
209	Accelerated design of architectured ceramics with tunable thermal resistance via a hybrid machine learning and finite element approach. 2021 , 210, 110056	5
208	Fiber/matrix debonding evaluation of SiCf/SiC composites using micropillar compression technique. 2021 , 224, 109189	4
207	The investigation on the fabrication and microstructure of a novel core-shell structure reinforced iron matrix composite. 2021 , 194, 110611	O
206	Silicide materials: Thermoelectric, mechanical properties, and durability for Mg-Si and Mn-Si. 2021 , 389-427	О
205	Thermal Shock and Thermal Fatigue Behavior of Ceramics: Microstructural Effects. 2021 , 879-890	1
204	Mechanisms of High-Temperature Fatigue and Fracture in Silicon Carbide Ceramics. 1-8	2
203	Mechanical Behavior of Cellular Ceramics.	1
202	Spring-network and finite-element models for elasticity and fracture. 1994 , 186-201	25
201	Finite Element Analysis of Crack-Path Selection in a Brick and Mortar Structure. 2005 , 375-386	1
200	Fracture Behaviour of Plasma Sprayed Thermal Barrier Coatings. 2005 , 421-435	5
199	Application of fracture mechanics concepts to hierarchical biomechanics of bone and bone-like materials. 2006 , 101-137	6

198	Cracking and Fatigue in Fiber-Reinforced Metal and Ceramic Matrix Composites. 1992, 271-308	3
197	Universal R-curve of Crack Propagation Resistance in Ceramic Composites. 1992 , 209-217	3
196	Synthesis and Microstructure of Mullite Fibers Grown from Deeply Undercooled Melts. 1998 , 169-176	5
195	Fracture Toughness and Subcritical Crack Growth in an Alumina/Silicon Carbide Nanocomposite 1996, 179-186	7
194	Thermal stresses. 1993 , 274-290	1
193	A Review on the Structure and Mechanical Properties of Mollusk Shells Perspectives on Synthetic Biomimetic Materials. 2009 , 17-44	27
192	Mikrostruktur keramischer Werkstoffe. 1994 , 29-104	1
191	Analytical and High-Resolution Electron Microscopy Studies at Metal/Ceramic Interfaces. 1992 , 75-92	2
190	Fracture Characteristics of Layered and Nano-Particle Reinforced Si3N4. 1998 , 187-205	5
189	Processing of Multilayered Si3N4-TiN Hot-Pressed Ceramic Composites. 1998 , 285-295	4
188	Ceramics and ceramic composites as high-temperature structural materials: challenges and opportunities. 1996 , 93-109	2
187	Friction Processes in Brittle Fracture. 1992 , 137-165	4
186	Prospects for Ceramics in Airborne Gas Turbine Engines. 1992 , 32-49	1
185	Mullite and SiC Matrix SiC Fibre Composites for High Temperature Application. 1992 , 726-734	1
184	Characterization of the Fracture Behavior of Ceramics through Analysis of Crack Propagation Studies. 1991 , 287-311	3
183	Design and Process of Non-Oxide Ceramics. 1999 , 285-304	11
182	The Potential of Si3N4 for Thermal Shock Applications. 1993 , 49-58	7
181	Strength and Toughness. 1994 , 409-453	1

180	Microstructural and micromechanical aspects of ceramic/long-rod projectile interactions. 2001, 437-446	4
179	Macro-and micromechanics of elevated temperature crack growth in ceramic composites. 1995 , 437-470	2
178	Practical and theoretical considerations on the fracture toughness testing of dental restorative materials. 2018 , 34, 97-119	47
177	Estimation of the fracture toughness of tungsten fibre-reinforced tungsten composites. 2020 , 232, 107011	10
176	Bioinspired Structures and Design. 2020 ,	1
175	The Mechanics of Earthquakes and Faulting. 2019 ,	162
174	Numerical modelling of transformation-induced damage and plasticity in metals. 2007, 15, S147-S166	12
173	Combining high hardness and crack resistance in mixed network glasses through high-temperature densification. 2018 , 2,	7
172	Chemical and structural analyses of the graphene nanosheet/alumina ceramic interfacial region in rapidly consolidated ceramic nanocomposites. 2018 , 52, 417-428	16
171	Grain Dependence of Ceramic Tensile Strengths at ~ 22 C. 2000 , 127-244	2
170	Effect of zirconia stabilized by ittria additions on the structure and mechanical properties of alumina based ceramics. 2014 , 21, 403-408	2
169	Fracture and deformation in brittle solids: A perspective on the issue of scale. 2004 , 19, 22	1
168	INFLUENCE OF SHORT CUT FIBER ON FRACTURE PARAMETERS OF HIGH STRENGTH MORTAR MATRIX: Fracture behavior of High-strength Fiber Reinforced Concrete (HFRC). 1997 , 62, 1-8	6
167	Performance of Ceramics in Severe Environments. 2005 , 565-578	1
166	Research of Oxidation Resistance of Short Carbon Fiber Reinforced SiC Composite by Hot-pressing. 2009 , 24, 305-309	3
165	Contact Deformation of Alumina. 2012 , 2012, 1-9	3
164	Insightful Understanding of the Role of the Mechanical Properties in Defining the Reliability of All-Ceramic Dental Restorations: A Review. 2021 , 12, 57-78	1
163	Computational homogenisation based extraction of transverse tensile cohesive responses of cortical bone tissue. 2021 , 1	

(2006-2021)

162	Fracture process analysis in Magnesia-Hercynite refractory materials by combining an enhanced Digital Image Correlation method with Wedge Splitting Test. 2021 , 116, 103134	0
161	Numerically Based Compliance Calibration for Steel Frame Assisted Tension Specimen. 2000 , 22, 91	1
160	Grain Dependence of Microcracking, Crack Propagation, and Fracture Toughness at ~ 22 C. 2000 , 43-126	
159	Particle (and Grain) Effects on Elastic Properties, Crack Propagation, and Fracture Toughness of Ceramic Composites at ~ 22 C. 2000 , 457-534	
158	Summary and Perspective for the Microstructural Dependence of Mechanical Properties of Dense Monolithic and Composite Ceramics. 2000 , 657-690	
157	R-Curve Effect on Slow Crack Growth and Thermal Shock of Ceramics. 2002 , 213-228	1
156	Mechanical Properties of Bauxite Ceramics. 2002, 513-519	
155	Microstructure and Properties of Nano-Sized Ni-Fe Alloy Dispersed Al2O3Composites. 2002 , 9, 161-166	
154	Dispersion of ZrO2by Coprecipitation in Al2O3/ZrO2Ceramics. 2002, 39, 704-709	
153	Further Topics in Composites. 2002,	
152	Electron Microscopy of Ceramic Materials. 2002,	
151	New Concepts in the Design of Tough Ceramics. 2004, 5-17	
150	Hot-Pressing Technique : SiC/AlN Composites. 2004 , 113-121	1
149	Fabrication of Al2O3/ZrO2Ceramics by the Polymerization Dispersion Process. 2004 , 41, 284-288	
148	Recent Advances in Microstructural Tailoring of Silicon Nitride Ceramics and the Effects on Thermal Conductivity and Fracture Properties. 2005 , 42, 525-531	1
147	Fabrication and Wear Behavior of Nano-sized Metal Particle Dispersed Al2O3Nanocomposites. 2005 , 15, 503-507	
146	Characteristics of Al2O3/ZrO2Ceramics by the Dispersion Process of ZrO2Particles. 2005 , 42, 561-566	
145	Effect of Cu content on Microstructure and Mechanical Properties of Al2O3/Cu Nanocomposites.	

127	WhiskerReinforced Composites. 1991, 132-156
128	Residual Stress on Concentric Laminated Fibrous Al2O3-ZrO2Composites on Prolonged High Temperature Exposure. 2013 , 23, 531-536
129	Corrosion of Ceramic Materials.
130	Strategies to Optimize the Strength and Fracture Resistance of Ceramic Laminates. 163-174 o
131	Fracture Resistance Evaluation of Ceramic Matrix Composites. 263-272
132	Design of Oxide Composites with Debonding Interphases□69-88
133	Matrix Filling Behavior of SiCf/SiC Composite by Whiskering and the CVI Process. 105-114
134	Fracture and Crack Growth in Ceramic Composites at High Temperatures. 117-130
135	Non-Contact Damage Detection of Fiber-Reinforced Ceramic Matrix Composites by Electromagnetic Wave. 199-217
136	References. 161-174
137	Low-temperature Sintering and Mechanical Properties of Lithium Nibate Toughening Carbon Nano-tubes/Hydroxyapatite Biocomposites. 2011 , 26, 863-868
138	Size Effect Related to Composite Toughness Characterization. 2011 , 8, 102337
139	Fracture of Ceramics. 529-575
140	Microstructure and Properties of Cu Dispersed Al2O3Nanocomposites Prepared by Pressureless Sintering. 2009 , 16, 280-284
141	The Scaling of Geological Faults. 2007 , 2-7
142	Effect of Sintering Temperature on Microstructure and Mechanical Properties of Cu Particles Dispersed Al2O3Nanocomposites. 2006 , 13, 366-370
143	Fired Microstructures and their Characterization.
144	Ceramic Matrix Composites.

Ceramics for Structural Purposes. 1991, 39-50 126 A MICROMECHANICS CONSTITUTIVE THEORY FOR THE DUCTILE PARTICLE REINFORCED BRITTLE 125 MATERIALS. 1992, 829-834 FRACTURE OF CERAMIC MATRIX COMPOSITES. 1992, 351-356 124 R-curve Behavior of PZT Ceramics near Morphotropic Phase Boundary. 1992, 371-385 123 The Effect of Cleanroom Processing on the Properties of Silicon Nitride. 1992, 577-583 122 Mechanical Properties of Si3N4/SiC Platelet Ceramic Composite. 1992, 435-440 121 On the toughness and creep behavior of fiber reinforced MoSi2 intermetallics. 1992, 668-675 120 DYNAMIC FAILURE OF BRITTLE MATERIALS: MICROMECHANICS AND EXPERIMENTS. 1992, 549-554 119 Toughening Investigation of Mode III Crack by Holographic Interference Technique. 1992, 524-528 118 Solution of Singular Problems. 1993, 643-675 117 MICRO-MACRO EXPERIMENTAL STUDY ON STRESS-INDUCED TRANSFORMATION PLASTIC ZONES 116 IN TETRAGONAL ZIRCONIA POLYCRYSTALLINE CERAMICS. 1993, 571-576 Cracking and Fatigue in Fiber-Reinforced Metal and Ceramic Matrix Composites. 1993, 139-168 115 Elastic Solids with Microcracks. 1993, 37, 113-190 114 Fatigue-Crack Propagation Behavior in Monolithic and Composite Ceramics and Intermetallics. 113 **1994**, 277-317 Alumina-Silicon Carbide Whisker Composite Tools. 1994, 86-111 112 1 Fracture response of structural ceramics combined with electrical functions. 1994, 421-424 111 HIGH-TEMPERATURE ZIRCONIA TERNARY ALLOY. 1994, 455-458 110 Application of fracture mechanics parameters to the design and lifetime prediction of ceramic 109 components. 1994, 507-516

108	Crack-Wake Plasticity and Time-Dependent Bridging During Subcritical Crack Growth in CVI-SiC Reinforced with Nicalon Fibers. 1995 , 631-641
107	Crystallography and Engineering Properties of Ceramics. 1995 , 922-975
106	Ceramic-Matrix Composites. 1995 , 1059-1093
105	Toughening and Strengthening Models for Nominally Brittle Materials. 1996 , 946-954
104	Transformation toughening in NiAl observed via Monte-Carlo simulations. 1996 , 193-196
103	INFLUENCE OF COARSE AGGREGATE ON FRACTURE PARAMETERS OF HIGH STRENGTH CONCRETE. 1996, 61, 7-16
102	Fatigue of Ceramics and Intermetallics: Application to Damage Tolerance and Life Prediction in Cyclically-Loaded Brittle Materials. 1997 , 377-403
101	Structural Ceramics. 1997 , 261-286
100	INFLUENCE OF SHORT CUT FIBER ON FRACTURE PARAMETERS OF HIGH STRENGTH CONCRETE: Fracture behavior of high-strength fiber reinforced concrete (HFRC). 1997 , 62, 7-12
99	Structure and Composition of Interfaces in Ceramics and Ceramic Composites. 1998 , 1-12
98	Near Atomic Scale Nanochemistry and Structure: Ceramic Grain Boundaries and Interfaces. 1998 , 95-106
97	Crack-Resistance Behavior in Ceramics. 1998 , 57-104
96	The Microcrack-Interacting Model. 1999 , 209-284
95	Small crack effects in ceramic materials. 1999 , 283-288
94	Molecular dynamics study on tensile behavior of SiC nanofiber/C/SiC nanocomposites. 2015 , 64, 117101
93	Polycrystalline Zirconia For Joint Replacement. 2016, 157-306
92	Microstructure Design for Oxide/Non-oxide Ceramics for Structural Applications. 2019 , 135-144
91	Grain Size Analysis by Hot-Cooling Cycle Thermal Stress at Y-TZP Ceramics using Full Width at Half Maximum(FWHM) of X-ray Diffraction. 2019 , 29, 264-270

PTPP PTPPT 90 **⊞⊞**€aOℤrO2 '₽>■2019, 14, 39-45 Mechanical performance of ZrB2IrO2BiC multilayer composite materials. 2020, 89 Tough and wear-resistant carbon fiber reinforced TiC-based composite prepared by alloyed melt 88 5.1 \circ infiltration at low temperatures. Ceramics International, 2021, 48, 4665-4665 Toughening Mechanism of ZTAIIICE Ceramic Materials Produced by High-Gravity Combustion 87 Synthesis. 2020, 35-41 Effects of plasticity on the anisotropy of the effective fracture toughness. 2020, 226, 181-196 86 2 Mechanical properties of unidirectional laminated hybrid SiCNextell 20 fiber-reinforced oxide 85 matrix composites fabricated by a novel precursor infiltration and pyrolysis method. 2022, 832, 142375 Relationship between microstructure and bonding strength of yttria-stabilized zirconia thermal 84 5.1 1 barrier coatings. Ceramics International, 2021, Highly Stretchable, Crack-Insensitive and Compressible Ceramic Aerogel. 2021, 83 5 Hierarchical Interfaces as Fracture Propagation Traps in Natural Layered Composites. Materials, 82 O 3.5 **2021**, 14, 81 Bioinspired Stochastic Design: Tough and Stiff Ceramic Systems. 2108492 The influence of ZrO2 on the microstructure and mechanical properties of Al2TiO5 flexible 80 1 ceramics. 2022, 185, 111719 Microcracks related to dilational transformation in ceramics. 1996, 15, 2055-2057 79 Investigation of microscale fracture mechanisms in glassderamics using peridynamics simulations. 78 3.8 О Journal of the American Ceramic Society, Biomineralized Materials as Model Systems for Structural Composites: 3D Architecture.. 2022, e2106259 77 ZrO 2 Matrix Toughened Ceramic Material-Strength and Toughness. 2101278 76 1 Structural Mechanisms in Soft Fibrous Tissues: A Review. 2022, 8, 75 Confocal Microscopy Visualizes Particle@rack Interactions in Epoxy Composites with Optical Force 74 3 Probe-Cross-Linked Rubber Particles. 2022, 55, 1060-1066

Damage and Failure Mechanisms of Biological Materials. 2022,

73

72 Threshold Damage Mechanisms in Brittle Solids and Their Impact on Advanced Technologies.

71	Pathophysiology of Fractures. 2022 , 29-53		
70	Microstructure, mechanical properties, and fracture behaviour of Ti(C,N)-based cermets with a composite structure. <i>Ceramics International</i> , 2022 ,	5.1	1
69	Mechanical properties of alumina matrix composite reinforced with carbon nanofibers affected by small interfacial sliding shear stress. <i>Ceramics International</i> , 2022 , 48, 8466-8472	5.1	O
68	Improved adhesion of TiN coatings on Al 2 O 3 Barbide composites by DFT calculations and experimental arc-PVD synthesis. <i>Journal of the American Ceramic Society</i> ,	3.8	О
67	Additive manufacturing of TiC-based cermet with stainless steel as a binder material. <i>Materials Today: Proceedings</i> , 2022 ,	1.4	1
66	A Comparative Study on Simulated Chairside Grinding and Polishing of Monolithic Zirconia <i>Materials</i> , 2022 , 15,	3.5	2
65	Impacts of inclusion of additives on physical, microstructural, and mechanical properties of Alumina and Zirconia toughened alumina (ZTA) ceramic composite: A review. <i>Materials Today: Proceedings</i> , 2022 ,	1.4	2
64	Ceramic Toughening Strategies for Biomedical Applications <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 840372	5.8	1
63	Progress update on extending the durability of air plasma sprayed thermal barrier coatings. Ceramics International, 2022,	5.1	O
62	Structure and properties of nickel-plated CNTs/Fe-based amorphous composite coatings fabricated by high-speed laser cladding. <i>Surface and Coatings Technology</i> , 2022 , 438, 128363	4.4	О
61	Intrinsic strengthening and toughening in hexagonal boron nitride by ripples. <i>Acta Materialia</i> , 2022 , 229, 117845	8.4	1
60	Low-temperature degradation resistance and plastic deformation of ATZ ceramics stabilized by CaO. <i>Journal of Physics: Conference Series</i> , 2021 , 2103, 012075	0.3	
59	Effect of TiO2 and Ta2O5 co-doping on phase stability, fracture toughness, and sintering behavior of ZrO2 stabilized by 10mol%(Y0.4Gd0.3Yb0.3)2O3. <i>Ceramics International</i> , 2022 ,	5.1	
58	THRESHOLD DAMAGE MECHANISMS IN BRITTLE SOLIDS AND THEIR IMPACT ON ADVANCED TECHNOLOGIES. <i>Acta Materialia</i> , 2022 , 117921	8.4	2
57	Effects of residual stress and intragranular particles on mechanical properties of hot-pressed Al2O3/SiC ceramic composites. <i>Ceramics International</i> , 2022 ,	5.1	2
56	Ultrahigh Hardness Coating with Excellent Crack Resistance Achieved by Ultrafine Eutectic. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science,	2.3	
55	Improved fracture resistance and toughening mechanisms of GNPs reinforced ceramic composites. <i>Ceramics International</i> , 2022 ,	5.1	O

54	Brittle Solids: From Physics and Chemistry to Materials Applications. <i>Annual Review of Materials Research</i> , 2022 , 52,	12.8	0
53	60 years of dislocations in ceramics: A conceptual framework for dislocation mechanics in ceramics. <i>International Journal of Ceramic Engineering & Science</i> ,	2	1
52	Strong, Tough Bioactive Glasses and Composite Scaffolds. 2022 , 147-172		
51	An extreme toughening mechanism for soft materials. Soft Matter,	3.6	1
50	The Mechanics of Fracture in Dental Ceramics. 2022 , 39-67		
49	A Material-by-Design Approach to Develop Ceramic- and Metallic-Particle-Reinforced Ca-EsiAlON Composites for Improved Thermal and Structural Properties. <i>Nanomaterials</i> , 2022 , 12, 2176	5.4	Ο
48	Precipitation-based grain boundary design alters Inter- to Trans-granular Fracture in AlCrN Thin Films. <i>Acta Materialia</i> , 2022 , 237, 118156	8.4	1
47	Microstructure and Mechanical Properties of Continuous Tungsten Fiber-Reinforced Tungsten-Zirconium Carbide-Copper Composites by Reactive Infiltration.		
46	Fracture behaviors of Ti(C, N)-based cermets with different contents of metal binder. 2022,		О
45	Effect of CoONiO additives on the microstructure and mechanical properties of microcrystalline corundum abrasives with in-situ formed needle-shaped LaAl11O18. 2022 ,		
44	A novel strategy for fabricating (Ti,Ta,Nb,Zr,W)(C,N) high-entropy ceramic reinforced with in situ synthesized W2C particles. 2022 ,		1
43	Unique properties and potential of glass-ceramics. 2022 , 130, 545-551		4
42	Assessing the fracture and fatigue resistance of nanostructured thin films. 2022, 239, 118260		Ο
41	Microstructure and mechanical properties of zirconia toughened nacre-like alumina ceramics. 2022 , 855, 143908		Ο
40	Comparative Study of CuO/ZTA and ZTA Composites in Terms of Functional Properties. 2022, 371-378		1
39	Fracture and Toughening of Intermetallics. 2022,		1
38	Microstructure and Mechanical Properties of Zirconia Toughened Nacre-Like Alumina Ceramics.		0
37	Microstructure and mechanical properties of SiCf/SiC composite prepared by chemical vapor infiltration. 2022 ,		1

36	Pressureless sintering of yttria-gadolinia co-stabilized zirconia. 2022,	O
35	Mechanical Properties and Deformation Behavior of Superhard Lightweight Nanocrystalline Ceramics. 2022 , 12, 3228	1
34	Microcrack healing in single-crystal cubic zirconia by thermal annealing. 2022,	O
33	Advanced ceramics and coatings for erosion-related applications in mineral and oil and gas production: A technical review.	O
32	A novel method for fabricating brick-mortar structured alumina-zirconia ceramics with high toughness. 2022 ,	О
31	Fiber bundle recombination and gradient uniform lamination to process high-strength and tough bamboo engineering materials. 2022 , 189, 115882	O
30	Abrasives. 1-27	O
29	Relationship between fracture toughness and fractal dimensional increment in two types of dental glass-ceramics with different fracture surface roughness. 2022 ,	O
28	Toughening a bulk metallic glass through mode II fracture under mode I loading. 2023, 600, 122007	O
27	Aligning curved stacking bands to simultaneously strengthen and toughen lamellar materials.	O
26	Fracture mechanics analysis of hardmetals by using artificial small-scale flaws machined at the surface through short-pulse laser ablation. 2023 , 111, 106084	О
25	Tough and damage-tolerant monolithic zirconia ceramics with transformation-induced plasticity by grain-boundary segregation. 2022 ,	O
24	Programming material properties by tuning intermolecular bonding. 2022, 132, 210703	O
23	Study on crack healing performance of Al2O3/SiCw/TiSi2 new ceramic tool material. 2022,	O
22	Influence of calcium hexaluminate gradation on interfacial microstructure and fracture behavior of cement-bonded alumina castables. 2023 ,	O
21	Effect of Initial Grain Size on Crack Healing Behavior under DC Electric Field of Zirconia (8Y-CSZ) Ceramic. 2201807	O
20	In situ high-temperature 3D imaging of the damage evolution in a SiC nuclear fuel cladding material. 2023 , 227, 111784	О
19	Nonuniform load distribution of two-dimensional C/SiC z-pinned joints with four pins in a rectangular array prepared via chemical vapor infiltration. 2023 , 24, 1827-1838	O

18	A novel metal-ceramic composite combining the structures of nacre and nanofiber reinforced foam. 2023 , 157, 189-199	0
17	Mixed-mode fracture model to quantify local toughness in nacre-like alumina. 2023 , 43, 4472-4481	Ο
16	Crystallized fraction and crystal size effects on the strength and toughness of lithium disilicate glass-ceramics. 2023 , 43, 3600-3609	0
15	Effect of Sintering Temperature on Mechanical Behaviors of an Oxide Fiber-Reinforced Oxide Matrix Composite. 2023 , 25,	Ο
14	Characterization and reaction mechanism of in-situ micro-laminated Cr2AlC coatings by plasma spraying Cr3C2/Al/Cr powder mixtures. 2023 , 456, 129271	0
13	Strategies for improving the lifetime of air plasma sprayed thermal barrier coatings. 2023 , 325-360	Ο
12	Simultaneous hardening and toughening of a high-entropy (NbTaZrW)C ceramic carbide using SiC particle.	0
11	Synergistic strengthening in interlocking metasurfaces. 2023 , 227, 111798	Ο
10	Crack deflection in laminates with graded stiffnesslessons from biology. 2023 , 18, 036001	Ο
9	Alumina ceramic tool material with enhanced properties through the addition of bionic prepared nano SiC@graphene. 2023 ,	Ο
8	Enhancing hardness and toughness of WC simultaneously by dispersed ZrO2. 2023 , 870, 144905	0
7	Toughening Ceramics down to Cryogenic Temperatures by Reentrant Strain-Glass Transition. 2023 , 130,	Ο
6	Ceramic matrix piezocomposites: method of fabrication and microstructure peculiarities. 2023, 605, 88-92	О
5	Plasticization of Alumina Toughened Zirconia Ceramics with the Silica Addition. 2023, 117-128	Ο
4	Delamination analysis of a ductile phase-toughened environmental barrier coating for oxygen-rich turbopumps. 2023 , 129455	0
3	Collagen-Based Micro/Nano Fibrous Constructs: Step-By-Step Reverse Biomimetics of Structure and Mechanical Function. 2023 , 5, 2816-2829	Ο
2	The Fracture Mechanics of Biological Materials. 2023, 255-282	0
1	Toughening Ceramic-Based Composites by Homogenizing the Lattice Strain at Phase Boundaries. 2023 , 15, 19604-19615	Ο