

# Brian R Lawn

## List of Publications by Year in Descending Order

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

138  
papers

12,378  
citations

57  
h-index

110  
g-index

140  
ext. papers

13,290  
ext. citations

4.3  
avg, IF

6.6  
L-index

#	Paper	IF	Citations
138	THRESHOLD DAMAGE MECHANISMS IN BRITTLE SOLIDS AND THEIR IMPACT ON ADVANCED TECHNOLOGIES. <i>Acta Materialia</i> , <b>2022</b> , 117921	8.4	2
137	Micromechanics of Machining and Wear in Hard and Brittle Materials. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 5-22	3.8	31
136	Science and art of ductile grinding of brittle solids. <i>International Journal of Machine Tools and Manufacture</i> , <b>2021</b> , 161, 103675	9.4	39
135	Precipitous weakening of quartz at the $\alpha/\beta$ phase inversion. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 23-26	3.8	2
134	Chipping: a pervasive presence in nature, science and technology. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 8396-8405	4.3	1
133	Fundamental mechanics of tooth fracture and wear: implications for humans and other primates.. <i>Interface Focus</i> , <b>2021</b> , 11, 20200070	3.9	2
132	Critique of materials-based models of ductile machining in brittle solids. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 6096-6100	3.8	20
131	Phytoliths can cause tooth wear. <i>Journal of the Royal Society Interface</i> , <b>2020</b> , 17, 20200613	4.1	7
130	On the vital role of enamel prism interfaces and graded properties in human tooth survival. <i>Biology Letters</i> , <b>2020</b> , 16, 20200498	3.6	2
129	Inverse correlations between wear and mechanical properties in biphasic dental materials with ceramic constituents. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 105, 103722	4.1	5
128	Evaluating dental zirconia. <i>Dental Materials</i> , <b>2019</b> , 35, 15-23	5.7	47
127	Wear of ceramic-based dental materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2019</b> , 92, 144-151	4.1	37
126	Role of particulate concentration in tooth wear. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 80, 77-80	4.1	17
125	Mechanisms of tooth damage and Paranthropus dietary reconstruction. <i>Biosurface and Biotribology</i> , <b>2018</b> , 4, 73-78	1	6
124	On the evolutionary advantage of multi-cusped teeth. <i>Journal of the Royal Society Interface</i> , <b>2016</b> , 13,	4.1	11
123	Fracture-resistant monolithic dental crowns. <i>Dental Materials</i> , <b>2016</b> , 32, 442-9	5.7	58
122	Simulation of enamel wear for reconstruction of diet and feeding behavior in fossil animals: A micromechanics approach. <i>BioEssays</i> , <b>2016</b> , 38, 89-99	4.1	22

121	The Compelling Case for Indentation as a Functional Exploratory and Characterization Tool. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 2671-2680	3.8	58
120	Mechanics of microwear traces in tooth enamel. <i>Acta Biomaterialia</i> , <b>2015</b> , 14, 146-53	10.8	42
119	Mechanics analysis of molar tooth splitting. <i>Acta Biomaterialia</i> , <b>2015</b> , 15, 237-43	10.8	20
118	A model for predicting wear rates in tooth enamel. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2014</b> , 37, 226-34	4.1	35
117	Role of multiple cusps in tooth fracture. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2014</b> , 35, 85-92	4.1	9
116	Edge chipping and flexural resistance of monolithic ceramics. <i>Dental Materials</i> , <b>2013</b> , 29, 1201-8	5.7	146
115	Transverse fracture of canine teeth. <i>Journal of Biomechanics</i> , <b>2013</b> , 46, 1561-7	2.9	15
114	Inferring biological evolution from fracture patterns in teeth. <i>Journal of Theoretical Biology</i> , <b>2013</b> , 338, 59-65	2.3	27
113	Fatigue of dental ceramics. <i>Journal of Dentistry</i> , <b>2013</b> , 41, 1135-47	4.8	161
112	Fracture susceptibility of worn teeth. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 5, 247-56	4.1	21
111	Role of tooth elongation in promoting fracture resistance. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 8, 37-46	4.1	21
110	Probing material properties with sharp indenters: a retrospective. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 1-22	4.3	63
109	Effect of property gradients on enamel fracture in human molar teeth. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 15, 121-30	4.1	37
108	Fracture in teeth: a diagnostic for inferring bite force and tooth function. <i>Biological Reviews</i> , <b>2011</b> , 86, 959-74	13.5	54
107	On the chipping and splitting of teeth. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2011</b> , 4, 315-21	4.1	58
106	Tooth chipping can reveal the diet and bite forces of fossil hominins. <i>Biology Letters</i> , <b>2010</b> , 6, 826-9	3.6	91
105	Teeth: Among Nature's Most Durable Biocomposites. <i>Annual Review of Materials Research</i> , <b>2010</b> , 40, 55-75	12.8	76
104	Properties of tooth enamel in great apes. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 4560-5	10.8	48

103	Remarkable resilience of teeth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 7289-93	11.5	172
102	Morphology and fracture of enamel. <i>Journal of Biomechanics</i> , <b>2009</b> , 42, 1947-51	2.9	36
101	Predicting failure in mammalian enamel. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2009</b> , 2, 33-42	4.1	54
100	Analysis of fracture and deformation modes in teeth subjected to occlusal loading. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 2213-21	10.8	82
99	Contact fatigue of silicon. <i>Journal of Materials Research</i> , <b>2008</b> , 23, 1175-1184	2.5	5
98	Dental enamel as a dietary indicator in mammals. <i>BioEssays</i> , <b>2008</b> , 30, 374-85	4.1	219
97	Margin failures in brittle dome structures: relevance to failure of dental crowns. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2007</b> , 80, 78-85	3.5	55
96	A universal relation for edge chipping from sharp contacts in brittle materials: A simple means of toughness evaluation. <i>Acta Materialia</i> , <b>2007</b> , 55, 2555-2561	8.4	106
95	Application of Hertzian Tests to Measure Stress-Strain Characteristics of Ceramics at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 149-153	3.8	23
94	Failure Modes in Ceramic-Based Layer Structures: A Basis for Materials Design of Dental Crowns. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 1671-1683	3.8	64
93	Fatigue Damage in Ceramic Coatings From Cyclic Contact Loading With a Tangential Component. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 91, 071106232502001-???	3.8	1
92	Edge chipping of brittle materials: effect of side-wall inclination and loading angle. <i>International Journal of Fracture</i> , <b>2007</b> , 145, 159-165	2.3	39
91	Transverse fracture of brittle bilayers: relevance to failure of all-ceramic dental crowns. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2006</b> , 79, 58-65	3.5	49
90	Competing fracture modes in brittle materials subject to concentrated cyclic loading in liquid environments: Trilayer structures. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 512-521	2.5	37
89	Study of Microstructural Effects in the Strength of Alumina Using Controlled Flaws. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 67, c67-c69	3.8	17
88	Hydraulically pumped cone fracture in brittle solids. <i>Acta Materialia</i> , <b>2005</b> , 53, 4237-4244	8.4	25
87	Crack Suppression in Strongly Bonded Homogeneous/Heterogeneous Laminates: A Study on Glass/Glass-Ceramic Bilayers. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 79, 634-640	3.8	67
86	Stress Analysis of Elastic-Plastic Contact Damage in Ceramic Coatings on Metal Substrates. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 79, 2619-2625	3.8	57

85	Hertzian Contact Damage in Porous Alumina Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 80, 1027-1031	3.8	47
84	Role of Microstructure in Hertzian Contact Damage in Silicon Nitride: I, Mechanical Characterization. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 80, 2367-2381	3.8	80
83	Contact Damage Accumulation in Tic <sub>3</sub> SiC <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 225-228	3.8	134
82	Contact-Induced Transverse Fractures in Brittle Layers on Soft Substrates: A Study on Silicon Nitride Bilayers. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 571-580	3.8	64
81	Role of Microstructure in Hertzian Contact Damage in Silicon Nitride: II, Strength Degradation. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 997-1003	3.8	23
80	Effect of Starting Powder on Damage Resistance of Silicon Nitrides. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 2061-2070	3.8	22
79	Contact Damage and Strength Degradation in Brittle/Quasi-Plastic Silicon Nitride Bilayers. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 2394-2404	3.8	36
78	Stress Analysis of Contact Deformation in Quasi-Plastic Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 79, 2609-2618	3.8	83
77	Model of Strength Degradation from Hertzian Contact Damage in Tough Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 1509-1520	3.8	51
76	Indentation of Ceramics with Spheres: A Century after Hertz. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 1977-1994	3.8	498
75	Contact damage in brittle coating layers: influence of surface curvature. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2005</b> , 73, 179-85	3.5	69
74	Deep-penetrating conical cracks in brittle layers from hydraulic cyclic contact. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2005</b> , 73, 186-93	3.5	63
73	Failure of curved brittle layer systems from radial cracking in concentrated surface loading. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2812-2819	2.5	42
72	Competing fracture modes in brittle materials subject to concentrated cyclic loading in liquid environments: Monoliths. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2021-2029	2.5	42
71	Competing fracture modes in brittle materials subject to concentrated cyclic loading in liquid environments: Bilayer structures. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2792-2800	2.5	41
70	Effect of oxide and nitride films on strength of silicon: A study using controlled small-scale flaws. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 3569-3575	2.5	10
69	Fracture and deformation in brittle solids: A perspective on the issue of scale. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 22-29	2.5	72
68	Strength of silicon containing nanoscale flaws. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 657-660	2.5	11

67	Evaluation of elastic modulus and hardness of thin films by nanoindentation. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 3076-3080	2.5	181
66	Contact Fatigue in Silicon Nitride. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 1281-1288	3.8	29
65	Scratch Damage in Zirconia Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 1428-1432	3.8	10
64	Model for Cyclic Fatigue of Quasi-Plastic Ceramics in Contact with Spheres. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 2255-2262	3.8	37
63	Effect of Flaw State on the Strength of Brittle Coatings on Soft Substrates. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 2377-2384	3.8	55
62	Thermal Shock Resistance of Silicon Nitrides Using an Indentation Quench Test. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 85, 279-281	3.8	22
61	Long-term strength of ceramics for biomedical applications. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 69, 166-72		60
60	Effect of sandblasting on the long-term performance of dental ceramics. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 71, 381-6		317
59	Materials design in the performance of all-ceramic crowns. <i>Biomaterials</i> , <b>2004</b> , 25, 2885-92	15.6	176
58	Crack opening profiles of indentation cracks in normal and anomalous glasses. <i>Acta Materialia</i> , <b>2004</b> , 52, 293-297	8.4	69
57	Strength of silicon, sapphire and glass in the subthreshold flaw region. <i>Acta Materialia</i> , <b>2004</b> , 52, 3459-3466	8.6	27
56	Fracture and deformation in brittle solids: A perspective on the issue of scale <b>2004</b> , 19, 22		1
55	Effect of an adhesive interlayer on the fracture of a brittle coating on a supporting substrate. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 222-227	2.5	48
54	Rate Effects in Critical Loads for Radial Cracking in Ceramic Coatings. <i>Journal of the American Ceramic Society</i> , <b>2002</b> , 85, 2019-2024	3.8	67
53	Cracking in Ceramic/metal/polymer Trilayer Systems. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 1102-1111	2.5	23
52	Overview: Damage in brittle layer structures from concentrated loads. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 3019-3036	2.5	149
51	Brittle Fracture versus Quasi Plasticity in Ceramics: A Simple Predictive Index. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 561-565	3.8	124
50	Contact-induced Damage in Ceramic Coatings on Compliant Substrates: Fracture Mechanics and Design. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 1066-1072	3.8	96

49	Effect of Tangential Loading on Critical Conditions for Radial Cracking in Brittle Coatings. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 2719-2721	3.8	22
48	Contact fracture of brittle bilayer coatings on soft substrates. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 115-126	2.5	54
47	Role of Microstructure in Dynamic Fatigue of Glass-Ceramics after Contact with Spheres. <i>Journal of the American Ceramic Society</i> , <b>2000</b> , 83, 1545-1547	3.8	12
46	Contact damage in porcelain/Pd-alloy bilayers. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 676-682	2.5	33
45	Cracking of brittle coatings adhesively bonded to substrates of unlike modulus. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 1653-1656	2.5	21
44	Role of adhesive interlayer in transverse fracture of brittle layer structures. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 1017-1024	2.5	49
43	Fracture modes in brittle coatings with large interlayer modulus mismatch. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 3805-3817	2.5	159
42	Nonlinear stress-strain curves for solids containing closed cracks with friction. <i>Journal of the Mechanics and Physics of Solids</i> , <b>1998</b> , 46, 85-113	5	70
41	Role of microstructure on contact damage and strength degradation of micaceous glass-ceramics. <i>Dental Materials</i> , <b>1998</b> , 14, 80-9	5.7	93
40	Effect of mechanical damage on thermal conduction of plasma-sprayed coatings. <i>Journal of Materials Research</i> , <b>1996</b> , 11, 1329-1332	2.5	10
39	Damage-resistant alumina-based layer composites. <i>Journal of Materials Research</i> , <b>1996</b> , 11, 204-210	2.5	97
38	Mechanical characterization of plasma sprayed ceramic coatings on metal substrates by contact testing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1996</b> , 208, 158-165	5.3	73
37	Contact Damage in Plasma-Sprayed Alumina-Based Coatings. <i>Journal of the American Ceramic Society</i> , <b>1996</b> , 79, 1907-1914	3.8	51
36	Hertzian Contact Response of Tailored Silicon Nitride Multilayers. <i>Journal of the American Ceramic Society</i> , <b>1996</b> , 79, 1009-1014	3.8	56
35	Thermal wave analysis of contact damage in ceramics: Case study on alumina. <i>Journal of Materials Research</i> , <b>1996</b> , 11, 939-947	2.5	11
34	Enhanced Machinability of Silicon Carbide via Microstructural Design. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 215-217	3.8	62
33	Hertzian Contact Damage in Magnesia-Partially-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 1083-1086	3.8	31
32	Contact Fatigue of a Silicon Carbide with a Heterogeneous Grain Structure. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 1431-1438	3.8	86



31	In Situ Processing of Silicon Carbide Layer Structures. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 3160-3162	3.8	26
30	Damage accumulation and cyclic fatigue in Mg-PSZ at Hertzian contacts. <i>Journal of Materials Research</i> , <b>1995</b> , 10, 2613-2625	2.5	33
29	Fatigue in ceramics with interconnecting weak interfaces: A study using cyclic Hertzian contacts. <i>Acta Metallurgica Et Materialia</i> , <b>1995</b> , 43, 1609-1617		49
28	Deformation and fracture of mica-containing glass-ceramics in Hertzian contacts. <i>Journal of Materials Research</i> , <b>1994</b> , 9, 762-770	2.5	168
27	Cyclic fatigue of a mica-containing glass-ceramic at Hertzian contacts. <i>Journal of Materials Research</i> , <b>1994</b> , 9, 2654-2661	2.5	65
26	Toughness Properties of a Silicon Carbide with an in Situ Induced Heterogeneous Grain Structure. <i>Journal of the American Ceramic Society</i> , <b>1994</b> , 77, 2518-2522	3.8	231
25	Effect of Grain Size on Hertzian Contact Damage in Alumina. <i>Journal of the American Ceramic Society</i> , <b>1994</b> , 77, 1825-1831	3.8	206
24	Indentation fatigue. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1993</b> , 68, 1003-1016		141
23	Reply to Comment on Role of Grain Size in the Strength and R-Curve Properties of Alumina. <i>Journal of the American Ceramic Society</i> , <b>1993</b> , 76, 1900-1901	3.8	6
22	Model for Toughness Curves in Two-Phase Ceramics: I, Basic Fracture Mechanics. <i>Journal of the American Ceramic Society</i> , <b>1993</b> , 76, 2235-2240	3.8	61
21	Model for Toughness Curves in Two-Phase Ceramics: II, Microstructural Variables. <i>Journal of the American Ceramic Society</i> , <b>1993</b> , 76, 2241-2247	3.8	55
20	Fracture of Brittle Solids <b>1993</b> ,		1669
19	Objective Evaluation of Short-Crack Toughness Curves Using Indentation Flaws: Case Study on Alumina-Based Ceramics. <i>Journal of the American Ceramic Society</i> , <b>1992</b> , 75, 3049-3057	3.8	127
18	Role of Grain Size in the Strength and R-Curve Properties of Alumina. <i>Journal of the American Ceramic Society</i> , <b>1990</b> , 73, 2419-2427	3.8	280
17	Grain-Size and R-Curve Effects in the Abrasive Wear of Alumina. <i>Journal of the American Ceramic Society</i> , <b>1989</b> , 72, 1249-1252	3.8	242
16	Indentation Deformation and Fracture of Sapphire. <i>Journal of the American Ceramic Society</i> , <b>1988</b> , 71, 29-35	3.8	70
15	Thresholds and reversibility in brittle cracks: An atomistic surface force model. <i>Journal of Materials Science</i> , <b>1987</b> , 22, 4036-4050	4.3	35
14	Crack-Interface Grain Bridging as a Fracture Resistance I, Mechanism in Ceramics: I, Experimental Study on Alumina. <i>Journal of the American Ceramic Society</i> , <b>1987</b> , 70, 279-289	3.8	471



13	Crack-Interface Grain Bridging as a Fracture Resistance Mechanism in Ceramics: II, Theoretical Fracture Mechanics Model. <i>Journal of the American Ceramic Society</i> , <b>1987</b> , 70, 289-294	3.8	331
12	Microstructural Effects on Grinding of Alumina and Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , <b>1987</b> , 70, C-139-C-140	3.8	50
11	High-Pressure Transformation Toughening: A Case Study on Zirconia. <i>Journal of the American Ceramic Society</i> , <b>1986</b> , 69, C-125-C-126	3.8	7
10	Crack Stability and Toughness Characteristics in Brittle Materials. <i>Annual Review of Materials Research</i> , <b>1986</b> , 16, 415-439		97
9	Sharp vs Blunt Crack Hypotheses in the Strength of Glass: A Critical Study Using Indentation Flaws. <i>Journal of the American Ceramic Society</i> , <b>1985</b> , 68, 25-34	3.8	93
8	Strength and Fatigue Properties of Optical Glass Fibers Containing Microindentation Flaws. <i>Journal of the American Ceramic Society</i> , <b>1985</b> , 68, 563-569	3.8	47
7	Microstructure-Strength Properties in Ceramics: I, Effect of Crack Size on Toughness. <i>Journal of the American Ceramic Society</i> , <b>1985</b> , 68, 604-615	3.8	217
6	Interfacial forces and the fundamental nature of brittle cracks. <i>Applied Physics Letters</i> , <b>1985</b> , 47, 809-811	3.4	28
5	Theory of Fatigue for Brittle Flaws Originating from Residual Stress Concentrations. <i>Journal of the American Ceramic Society</i> , <b>1983</b> , 66, 314-321	3.8	86
4	A Modified Indentation Toughness Technique. <i>Journal of the American Ceramic Society</i> , <b>1983</b> , 66, c200-c208	3.8	155
3	The Indentation Crack as a Model Surface Flaw <b>1983</b> , 1-25		22
2	Indentation fracture: principles and applications. <i>Journal of Materials Science</i> , <b>1975</b> , 10, 1049-1081	4.3	1040
1	Short-Crack T-Curves and Damage Tolerance in Alumina-Based Composites. <i>Ceramic Engineering and Science Proceedings</i> , 156-163	0.1	1