

# Jianghong Gong

## 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.

86  
papers

1,934  
citations

25  
h-index

41  
g-index

86  
ext. papers

2,089  
ext. citations

4.6  
avg, IF

4.66  
L-index

#	Paper	IF	Citations
86	The Efficiency of Normal Distribution in Statistical Characterization of the Experimentally Measured Strength for Ceramics. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 42-55	1.6	0
85	Description of the nanoindentation unloading curves with a universal function: Theoretical consideration and applications to brittle materials. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 251, 123165	4.4	4
84	A universal function for the description of nanoindentation unloading data: Case study on soda-lime glass. <i>Journal of Non-Crystalline Solids</i> , <b>2020</b> , 544, 120067	3.9	3
83	On the efficiency of the "effective truncation length" of indenter tip in mechanical property determination with nanoindentation tests. <i>Materials Today Communications</i> , <b>2020</b> , 25, 101412	2.5	1
82	Self-calibration of area function for mechanical property determination with nanoindentation tests. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 16002-16017	4.3	2
81	Synergetic enhancement of mechanical and electrical properties in Ce <sub>0.8</sub> Sm <sub>0.1</sub> Nd <sub>0.1</sub> O <sub>2-x</sub> La <sub>10</sub> Si <sub>6</sub> O <sub>27</sub> composite electrolytes. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 3130-3137	3.8	4
80	Is a three-parameter Weibull function really necessary for the characterization of the statistical variation of the strength of brittle ceramics?. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 2234-2242	6	13
79	A facile fabrication method for ultrathin NiO/Ni nanosheets as a high-performance electrocatalyst for the oxygen evolution reaction. <i>RSC Advances</i> , <b>2017</b> , 7, 18539-18544	3.7	9
78	Lithium-Ion Battery Cycling for Magnetism Control. <i>Nano Letters</i> , <b>2016</b> , 16, 583-7	11.5	54
77	Filling the Gaps between Graphene Oxide: A General Strategy toward Nanolayered Oxides. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5683-5690	15.6	27
76	Sol-gel synthesis of mesoporous spherical zirconia. <i>RSC Advances</i> , <b>2015</b> , 5, 104629-104634	3.7	13
75	SiO <sub>x</sub> Nanodendron by Laser Ablation for Anode of Lithium-Ion Battery. <i>Small</i> , <b>2015</b> , 11, 6009-12	11	31
74	Buckled Tin Oxide Nanobelt Webs as Highly Stretchable and Transparent Photosensors. <i>Small</i> , <b>2015</b> , 11, 5712-8	11	34
73	Glass fiber fabric mat as the separator for lithium-ion battery with high safety performance. <i>Ionics</i> , <b>2015</b> , 21, 3135-3139	2.7	25
72	Determination of the mechanical behavior of lithium disilicate glass ceramics by nanoindentation & scanning probe microscopy. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 148, 1036-1044	4.4	25
71	Nanoindentation characterization of tetragonal zirconia polycrystalline implanted by titanium ions with MEVVA sources. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 147, 268-272	4.4	7
70	Synthesis of vertically-aligned CNT arrays from diameter-controlled Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Journal of the Ceramic Society of Japan</i> , <b>2014</b> , 122, 187-191	1	

69	Nanoindentation Characterization of the Hardness of Zirconia Dental Ceramics. <i>Advanced Engineering Materials</i> , <b>2013</b> , 15, 704-707	3.5	15
68	Effect of porosity on the microhardness testing of brittle ceramics: A case study on the system of NiO $\gamma$ SiO <sub>2</sub> . <i>Ceramics International</i> , <b>2013</b> , 39, 8751-8759	5.1	14
67	Analysis of continuous stiffness data measured during nanoindentation of titanium films on glass substrate. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 125, 500-504	4.4	7
66	Determination of the thickness of titanium films on glass substrate by nanoindentation tests. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 353-356	2.5	2
65	Influence of thickness on the electrical conductivity of YSZ electrolytes. <i>Journal of the Ceramic Society of Japan</i> , <b>2010</b> , 118, 550-554	1	7
64	VARIATION OF THE POWER LAW EXPONENTS IN THE ANALYSIS OF UNIVERSAL DYNAMIC RESPONSE. <i>Modern Physics Letters B</i> , <b>2009</b> , 23, 3463-3469	1.6	2
63	Analysis of the nanoindentation load-displacement curves measured on high-purity fine-grained alumina. <i>Journal of the European Ceramic Society</i> , <b>2005</b> , 25, 649-654	6	42
62	Reply to "Comment on Relationship between the Estimated Weibull Modulus and the Coefficient of Variation of the Measured Strength for Ceramics". <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 1015-1016	3.8	
61	Relationship between the Estimated Weibull Modulus and the Coefficient of Variation of the Measured Strength for Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 449-452	3.8	35
60	ac Impedance Study of Zirconia Doped with Yttria and Calcia. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 648-650	3.8	22
59	Empirical method for the determination of hardness from low-load ball indentation tests for brittle materials. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 3175-3177	4.3	
58	On the description of indentation size effect in hardness testing for ceramics: Analysis of the nanoindentation data. <i>Journal of the European Ceramic Society</i> , <b>2004</b> , 24, 2193-2201	6	147
57	Compositional dependence of hardness of (Ce,Y)-TZP/Al <sub>2</sub> O <sub>3</sub> composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 372, 207-212	5.3	11
56	Analysis of the nanoindentation data measured with a Berkovich indenter for brittle materials: effect of the residual contact stress. <i>Acta Materialia</i> , <b>2004</b> , 52, 785-793	8.4	77
55	On the contact area for nanoindentation tests with Berkovich indenter: case study on soda-lime glass. <i>Materials Letters</i> , <b>2004</b> , 58, 1349-1353	3.3	51
54	Effect of CaF <sub>2</sub> on the electrical properties of yttria-stabilized zirconia. <i>Materials Letters</i> , <b>2004</b> , 58, 394-396	3.3	1
53	Correlation between Weibull moduli for tensile and bending strength of brittle ceramics: a numerical simulation analysis based on a three-parameter Weibull distribution. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 2541-2545	4.3	4
52	Simple method for determining the initial unloading slope for ceramics nanoindentation tests. <i>Journal of Materials Science Letters</i> , <b>2003</b> , 22, 267-268		3

- 51 A new function for the description of the nanoindentation unloading data. *Scripta Materialia*, **2003**, 49, 93-97 5.6 17
- 50 Strength characteristics of toughened ceramics containing contact-induced small surface cracks. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 344, 132-139 5.3 5
- 49 Effect of peak load on the determination of hardness and Young's modulus of hot-pressed Si<sub>3</sub>N<sub>4</sub> by nanoindentation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 354, 140-145 5.3 38
- 48 Effect of metallic binder content on the microhardness of TiCN-based cermets. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 359, 391-395 5.3 23
- 47 Grain-boundary effect in zirconia stabilized with yttria and calcia by electrical measurements. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2003**, 103, 108-114 3.1 22
- 46 Comment on Measurement of hardness on traditional ceramics [H. Kim and T. Kim, J. Eur. Ceram. Soc., 22, 1437-1445 (2002)]. *Journal of the European Ceramic Society*, **2003**, 23, 1769-1772 6 5
- 45 Influence of TiC particle size on the load-independent hardness of Al<sub>2</sub>O<sub>3</sub>/TiC composites. *Materials Letters*, **2003**, 57, 3439-3443 3.3 13
- 44 Temperature-dependence of the lattice conductivity of mixed calcia/yttria-stabilized zirconia. *Materials Chemistry and Physics*, **2002**, 76, 212-216 4.4 21
- 43 Low-temperature ionic conductivity of the solid solution in the system ZrO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub>-CaO. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2002**, 90, 287-290 3.1 6
- 42 Indentation toughness of ceramics: a statistical analysis. *Ceramics International*, **2002**, 28, 767-772 5.1 22
- 41 Indentation toughness of ceramics: A modified approach. *Journal of Materials Science*, **2002**, 37, 865-869 4.3 22
- 40 Analysis of non-linear Arrhenius behavior of ionic conduction in cubic zirconia stabilized with yttria and calcia. *Journal of Materials Science Letters*, **2002**, 21, 157-159 10
- 39 Effect of TiC-particle size on sliding wear of TiC particulate reinforced alumina composites. *Materials Letters*, **2002**, 53, 258-261 3.3 8
- 38 A comparison between Knoop and Vickers hardness of silicon nitride ceramics. *Materials Letters*, **2002**, 56, 941-944 3.3 27
- 37 Variation in the indentation toughness of silicon nitride. *Materials Letters*, **2002**, 57, 643-646 3.3 7
- 36 Load-dependence of the measured hardness of Ti(C,N)-based cermets. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 303, 179-186 5.3 60
- 35 Preparation of Ni/YSZ materials for SOFC anodes by buffer-solution method. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2001**, 86, 119-122 3.1 50
- 34 On the local crack resistance of Al<sub>2</sub>O<sub>3</sub>/TiC composites evaluated by direct indentation method. *Journal of the European Ceramic Society*, **2001**, 21, 941-946 6 14

33	The influence of TiC-particle-size on the fracture toughness of Al <sub>2</sub> O <sub>3</sub> /30 wt.%TiC composites. <i>Journal of the European Ceramic Society</i> , <b>2001</b> , 21, 2377-2381	6	26
32	Weibull modulus of fracture strength of toughened ceramics subjected to small-scale contacts. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 2391-2396	4-3	8
31	Fracture toughness of Al <sub>2</sub> O <sub>3</sub> -TiCN composites. <i>Journal of Materials Science Letters</i> , <b>2001</b> , 20, 2085-2087		3
30	Characterization of R-curve behavior in Si <sub>3</sub> N <sub>4</sub> -based ceramics. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 318, 42-49	5-3	7
29	Load dependence of low-load Knoop hardness in ceramics: a modified PSR model. <i>Materials Letters</i> , <b>2001</b> , 47, 140-144	3-3	26
28	Effect of microcracking on the energy-balance relationship for hardness testing of ceramics. <i>Materials Letters</i> , <b>2001</b> , 49, 180-184	3-3	10
27	Effect of TiC particle size on the toughness characteristics of Al <sub>2</sub> O <sub>3</sub> /TiC composites. <i>Materials Letters</i> , <b>2001</b> , 49, 235-238	3-3	25
26	Statistical variability in the indentation toughness of TiCN particle reinforced Al <sub>2</sub> O <sub>3</sub> composite. <i>Materials Letters</i> , <b>2001</b> , 49, 357-360	3-3	7
25	Statistical analysis of fracture toughness of soda-lime glass determined by indentation. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 279, 219-223	3-9	40
24	Effect of load-dependence of hardness on indentation toughness determination for soda-lime glass. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 282, 325-328	3-9	16
23	Microstructural dependence of electrical conductivity of (ZrO <sub>2</sub> ) <sub>0.90</sub> (Y <sub>2</sub> O <sub>3</sub> ) <sub>0.04</sub> (CaO) <sub>0.06</sub> solid electrolyte. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 78, 140-144	3-1	3
22	Crack-location-dependent R-curve behavior in Si <sub>3</sub> N <sub>4</sub> . <i>Journal of the European Ceramic Society</i> , <b>2000</b> , 20, 1339-1344	6	7
21	Load-dependence of Knoop hardness of Al <sub>2</sub> O <sub>3</sub> /TiC composites. <i>Journal of the European Ceramic Society</i> , <b>2000</b> , 20, 1895-1900	6	51
20	Environmental effects on the room-temperature static fatigue behavior of polycrystalline mullite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 283, 76-81	5-3	8
19	R-curve behavior of TiC particle reinforced Al <sub>2</sub> O <sub>3</sub> composites. <i>Scripta Materialia</i> , <b>2000</b> , 43, 27-31	5-6	20
18	An energy-balance analysis for the size effect in low-load hardness testing. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 209-213	4-3	84
17	Ionic conductivity in the ternary system (ZrO <sub>2</sub> ) <sub>1-0.08x-0.12y</sub> (Y <sub>2</sub> O <sub>3</sub> ) <sub>0.08x</sub> (CaO) <sub>0.12y</sub> . <i>Journal of Materials Science</i> , <b>2000</b> , 35, 3547-3551	4-3	11
16	On the energy balance model for conventional Vickers microhardness testing of brittle ceramics. <i>Journal of Materials Science Letters</i> , <b>2000</b> , 19, 515-517		31

15	A new probability index for estimating Weibull modulus for ceramics with the least-square method. <i>Journal of Materials Science Letters</i> , <b>2000</b> , 19, 827-829		27
14	Enhancement of the ionic conductivity of mixed calcia/yttria stabilized zirconia. <i>Materials Letters</i> , <b>2000</b> , 46, 115-119	3.3	24
13	Effect of flowing slurry on the delayed failure behavior of polycrystalline mullite. <i>Materials Letters</i> , <b>2000</b> , 46, 219-221	3.3	
12	Determining indentation toughness by incorporating true hardness into fracture mechanics equations. <i>Journal of the European Ceramic Society</i> , <b>1999</b> , 19, 1585-1592	6	25
11	Examination of the indentation size effect in low-load vickers hardness testing of ceramics. <i>Journal of the European Ceramic Society</i> , <b>1999</b> , 19, 2625-2631	6	258
10	Determining the confidence intervals for Weibull estimators. <i>Journal of Materials Science Letters</i> , <b>1999</b> , 18, 1405-1407		7
9	Electrical Conductivity of Zirconia Stabilized with Yttria and Calcia. <i>Journal of Materials Science Letters</i> , <b>1999</b> , 18, 443-444		13
8	Low amplitude cyclic deformation behavior of single crystalline silicon. <i>Scripta Materialia</i> , <b>1999</b> , 41, 109-115		2
7	Analysis of the indentation size effect on the apparent hardness for ceramics. <i>Materials Letters</i> , <b>1999</b> , 38, 197-201	3.3	74
6	Description of the indentation size effect in hot-pressed silicon-nitride-based ceramics. <i>Journal of Materials Science Letters</i> , <b>1998</b> , 17, 473-475		22
5	Effect of Multi-point Indentation on the Bending Strength of Silicon Nitride Ceramic. <i>Journal of Materials Science Letters</i> , <b>1998</b> , 17, 1107-1109		
4	Strength/crack-size relationship for Knoop-indented bending specimens and its application to silicon nitride ceramics. <i>Journal of the European Ceramic Society</i> , <b>1998</b> , 18, 891-899	6	4
3	Room temperature time-dependent failure behavior of polycrystalline mullite in water. <i>Materials Letters</i> , <b>1998</b> , 34, 40-42	3.3	3
2	Load dependence of the apparent hardness of silicon nitride in a wide range of loads. <i>Materials Letters</i> , <b>1998</b> , 35, 58-61	3.3	23
1	A simple method for determining the Weibull estimator. <i>Journal of Materials Science Letters</i> , <b>1997</b> , 16, 875-876		7