

Chunsheng Lu

List of Publications by Year in descending order

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183
papers

4,834
citations

93792

39
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150775

59
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185
all docs

185
docs citations

185
times ranked

4606
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal fracture analysis of a two-dimensional decagonal quasicrystal coating structure with interface cracks. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 2001-2016.	1.5	1
2	Determination of the Fracture Toughness of Glasses via Scratch Tests with a Vickers Indenter. <i>Acta Mechanica Solida Sinica</i> , 2022, 35, 129-138.	1.0	6
3	Temperature-dependent bending strength in piezoelectric semiconductive ceramics. <i>Ceramics International</i> , 2022, 48, 2771-2775.	2.3	4
4	Simultaneously achieving strength and ductility in Ni ₃ Al nanowires with superlattice intrinsic stacking faults. <i>International Journal of Mechanical Sciences</i> , 2022, 215, 106953.	3.6	9
5	Nonlinear Solution of a Piezoelectric PN Junction Under Temperature Gradient. <i>International Journal of Applied Mechanics</i> , 2022, 14, .	1.3	4
6	Characterization of Pore Structures with Mercury Intrusion Porosimetry after Electrochemical Modification: A Case Study of Jincheng Anthracite. <i>ACS Omega</i> , 2022, 7, 11148-11157.	1.6	0
7	Displacement discontinuity method for interfacial cracks in one-dimensional hexagonal quasi-crystal coating under thermal-mechanical loading. <i>Journal of Thermal Stresses</i> , 2022, 45, 517-537.	1.1	2
8	Polarization-dominated thermal-electric-mechanical behaviours in GaN ceramics. <i>Ceramics International</i> , 2022, , .	2.3	2
9	Spatio-temporal dynamics of jerky flow in high-entropy alloy at extremely low temperature. <i>Philosophical Magazine</i> , 2021, 101, 154-178.	0.7	19
10	Nonlinear analysis of a crack in 2D piezoelectric semiconductors with exact electric boundary conditions. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 632-639.	1.4	4
11	Sluggish hydrogen diffusion and hydrogen decreasing stacking fault energy in a high-entropy alloy. <i>Materials Today Communications</i> , 2021, 26, 101902.	0.9	11
12	Hardening Ni ₃ Al via complex stacking faults and twinning boundary. <i>Computational Materials Science</i> , 2021, 188, 110201.	1.4	15
13	Electric current-restrained crack propagation in brittle GaN ceramics. <i>Journal of Materials Science</i> , 2021, 56, 5730-5735.	1.7	0
14	Temperature Gradient-Dominated Electrical Behaviours in a Piezoelectric PN Junction. <i>Journal of Electronic Materials</i> , 2021, 50, 947-953.	1.0	14
15	A Statistical Evolution Model of Concrete Damage Induced by Seawater Corrosion. <i>Materials</i> , 2021, 14, 1007.	1.3	9
16	Analysis of interface cracks in one-dimensional hexagonal quasi-crystal coating under in-plane loads. <i>Engineering Fracture Mechanics</i> , 2021, 243, 107534.	2.0	16
17	Effects of flexoelectricity and strain gradient on bending vibration characteristics of piezoelectric semiconductor nanowires. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	16
18	Hydrogen induced slowdown of spallation in high entropy alloy under shock loading. <i>International Journal of Plasticity</i> , 2021, 139, 102944.	4.1	18

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19	Application of the homotopy analysis method to nonlinear characteristics of a piezoelectric semiconductor fiber. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021, 42, 665-676.	1.9	12
20	Coupled electrochemical-mechanical modeling with strain gradient plasticity for lithium-ion battery electrodes. <i>European Journal of Mechanics, A/Solids</i> , 2021, 87, 104230.	2.1	11
21	Effects of bedding planes on the fracture characteristics of coal under dynamic loading. <i>Engineering Fracture Mechanics</i> , 2021, 250, 107761.	2.0	12
22	Atomistic modeling for the extremely low and high temperature-dependent yield strength in a Ni-based single crystal superalloy. <i>Materials Today Communications</i> , 2021, 27, 102451.	0.9	1
23	Fracture predictions based on a coupled chemo-mechanical model with strain gradient plasticity theory for film electrodes of Li-ion batteries. <i>Engineering Fracture Mechanics</i> , 2021, 253, 107866.	2.0	64
24	Low-velocity impact behaviors of glass fiber-reinforced polymer laminates embedded with shape memory alloy. <i>Composite Structures</i> , 2021, 272, 114194.	3.1	8
25	Interaction between the edge dislocation dipole pair and interfacial misfit dislocation network in Ni-based single crystal superalloys. <i>International Journal of Solids and Structures</i> , 2021, 228, 111128.	1.3	12
26	Analysis of a penny-shaped crack with semi-permeable boundary conditions across crack face in a 3D thermal piezoelectric semiconductor. <i>Engineering Analysis With Boundary Elements</i> , 2021, 131, 76-85.	2.0	0
27	A meshfree method with gradient smoothing for free vibration and buckling analysis of a strain gradient thin plate. <i>Engineering Analysis With Boundary Elements</i> , 2021, 132, 159-167.	2.0	20
28	Mobility of the {0110} inversion domain boundary in ZnO nanopillars. <i>Materials Letters</i> , 2021, 305, 130778.	1.3	3
29	Interactions between butterfly-like prismatic dislocation loop pairs and planar defects in Ni ₃ Al. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10377-10383.	1.3	7
30	Repeatable mechanical energy absorption of ZnO nanopillars. <i>Materials Today Communications</i> , 2021, 29, 102904.	0.9	2
31	Interfacial fracture analysis for a two-dimensional decagonal quasi-crystal coating layer structure. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021, 42, 1633-1648.	1.9	11
32	Anisotropic electromechanical properties of GaN ceramics caused by polarisation. <i>Ceramics International</i> , 2020, 46, 5331-5336.	2.3	4
33	Characterization on the yield stress and interfacial coefficient of friction of glasses from scratch tests. <i>Ceramics International</i> , 2020, 46, 6060-6066.	2.3	18
34	Mechanistic investigations of N-doped graphene/2H(1T)-MoS ₂ for Li/K-ions batteries. <i>Nano Energy</i> , 2020, 78, 105352.	8.2	20
35	Non-trivial avalanches triggered by shear banding in compression of metallic glass foams. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, .	1.0	3
36	Evolution of the Electrical Displacement and Energy Dissipation of Lead Zirconate-Titanate Ceramics under Cyclical Load. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-12.	1.0	1

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37	A stable and efficient meshfree Galerkin method with consistent integration schemes for strain gradient thin beams and plates. <i>Thin-Walled Structures</i> , 2020, 153, 106791.	2.7	12
38	Influence of Different Freezing Modes on the Base Slab Displacement of an Upper Structure. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 27.	1.3	2
39	Theoretical analysis on the extension of a piezoelectric semi-conductor nanowire: Effects of flexoelectricity and strain gradient. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	41
40	Analysis of anti-plane interface cracks in one-dimensional hexagonal quasicrystal coating. <i>Applied Mathematical Modelling</i> , 2020, 81, 641-652.	2.2	21
41	Fractal Cracking Patterns in Concretes Exposed to Sulfate Attack. <i>Materials</i> , 2019, 12, 2338.	1.3	10
42	Consistent integration schemes for meshfree analysis of strain gradient elasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 357, 112601.	3.4	10
43	A constitutive model coupling irradiation with two-phase lithiation for lithium-ion battery electrodes. <i>Philosophical Magazine</i> , 2019, 99, 992-1013.	0.7	9
44	Enhancement Effects of Co Doping on Interfacial Properties of Sn Electrode Collector: A First-Principles Study. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24648-24658.	4.0	19
45	Entropy evolution during crack propagation in concrete under sulfate attack. <i>Construction and Building Materials</i> , 2019, 209, 492-498.	3.2	13
46	An iterative approach for analysis of cracks with exact boundary conditions in finite magneto-electroelastic solids. <i>Smart Materials and Structures</i> , 2019, 28, 055025.	1.8	7
47	Effect of carbon ion irradiation on the structural, mechanical and electrical properties of polycrystalline tungsten. <i>Materials Research Express</i> , 2019, 6, 066551.	0.8	5
48	Investigation of sudden faults instability induced by coal mining. <i>Safety Science</i> , 2019, 115, 256-264.	2.6	41
49	Nanoscale elastic-plastic deformation and mechanical properties of 3C-SiC thin film using nanoindentation. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 706-717.	1.1	9
50	Oxidation behaviors of ZrB ₂ based ultra-high temperature ceramics under compressive stress. <i>Ceramics International</i> , 2019, 45, 7278-7285.	2.3	19
51	Electric field-induced toughening in GaN piezoelectric semiconductor ceramics. <i>Ceramics International</i> , 2019, 45, 6589-6593.	2.3	2
52	Deformation and failure processes of kaolinite under tension: Insights from molecular dynamics simulations. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	22
53	Lithiation-induced interfacial failure of electrode-collector: A first-principles study. <i>Materials Chemistry and Physics</i> , 2019, 222, 193-199.	2.0	9
54	Modeling diffusion-induced stress on two-phase lithiation in lithium-ion batteries. <i>European Journal of Mechanics, A/Solids</i> , 2018, 71, 320-325.	2.1	21

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55	Influence of polarization on the electromechanical properties of GaN piezoelectric semiconductive ceramics. <i>Ceramics International</i> , 2018, 44, 12648-12654.	2.3	16
56	Investigation on the static and dynamic behaviors of non-pneumatic tires with honeycomb spokes. <i>Composite Structures</i> , 2018, 187, 27-35.	3.1	80
57	The Changeable Power Law Singularity and its Application to Prediction of Catastrophic Rupture in Uniaxial Compressive Tests of Geomedia. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2645-2657.	1.4	15
58	Advances in oxidation and ablation resistance of high and ultra-high temperature ceramics modified or coated carbon/carbon composites. <i>Journal of the European Ceramic Society</i> , 2018, 38, 1-28.	2.8	283
59	Smoothed particle hydrodynamics simulation for injection molding flow of short fiber-reinforced polymer composites. <i>Journal of Composite Materials</i> , 2018, 52, 1531-1539.	1.2	6
60	Influence of electric field and current on the strength of deposed GaN piezoelectric semiconductive ceramics. <i>Ceramics International</i> , 2018, 44, 4169-4175.	2.3	21
61	Electric Current Dependent Fracture in GaN Piezoelectric Semiconductor Ceramics. <i>Materials</i> , 2018, 11, 2000.	1.3	22
62	A direction-dependent shear strength criterion for rock joints with two new roughness parameters. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	14
63	Anisotropic mechanical properties of Si anodes in a lithiation process of lithium-ion batteries. <i>Acta Mechanica</i> , 2018, 229, 3293-3303.	1.1	12
64	Modelling Temperature Effects for Prismatic Lithium Manganese Oxide Batteries. <i>Materials Focus</i> , 2018, 7, 207-216.	0.4	1
65	Mechanical properties, stress distributions and nanoscale deformation mechanisms in single crystal 6H-SiC by nanoindentation. <i>Journal of Alloys and Compounds</i> , 2017, 708, 1046-1053.	2.8	19
66	Three-dimensional smoothed particle hydrodynamics simulation for injection molding flow of short fiber-reinforced polymer composites. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017, 25, 055007.	0.8	18
67	On the wurtzite to tetragonal phase transformation in ZnO nanowires. <i>Nanotechnology</i> , 2017, 28, 165705.	1.3	9
68	Quasi-static and dynamic experimental studies on the tensile strength and failure pattern of concrete and mortar discs. <i>Scientific Reports</i> , 2017, 7, 15305.	1.6	25
69	An electrochemical-irradiated plasticity model for metallic electrodes in lithium-ion batteries. <i>International Journal of Plasticity</i> , 2017, 88, 188-203.	4.1	41
70	Nano-scale elastic-plastic properties and indentation-induced deformation of single crystal 4H-SiC. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 66, 172-180.	1.5	40
71	Nano-scale elastic-plastic properties and indentation-induced deformation of amorphous silicon carbide thin film. <i>Ceramics International</i> , 2017, 43, 385-391.	2.3	24
72	Softening by electrochemical reaction-induced dislocations in lithium-ion batteries. <i>Scripta Materialia</i> , 2017, 127, 33-36.	2.6	26

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73	A chemo-mechanical model coupled with thermal effect on the hollow core-shell electrodes in lithium-ion batteries. <i>Theoretical and Applied Mechanics Letters</i> , 2017, 7, 199-206.	1.3	20
74	Mechanical properties of Li-Sn alloys for Li-ion battery anodes: A first-principles perspective. <i>AIP Advances</i> , 2016, 6, .	0.6	23
75	Reliability assessment on interfacial failure of thermal barrier coatings. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2016, 32, 915-924.	1.5	9
76	Effects of size and concentration on diffusion-induced stress in lithium-ion batteries. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	21
77	A relation to predict the failure of materials and potential application to volcanic eruptions and landslides. <i>Scientific Reports</i> , 2016, 6, 27877.	1.6	39
78	Failure Prediction of High-Capacity Electrode Materials in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1157-A1163.	1.3	46
79	Stress-strain relationships of Li Sn alloys for lithium ion batteries. <i>Journal of Power Sources</i> , 2016, 311, 21-28.	4.0	32
80	A metallic glass syntactic foam with enhanced energy absorption performance. <i>Scripta Materialia</i> , 2016, 119, 47-50.	2.6	22
81	SnO ₂ /Reduced Graphene Oxide Nanocomposite as Anode Material for Lithium-Ion Batteries with Enhanced Cyclability. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 4136-4140.	0.9	6
82	Numerical Simulation of Temperature Distribution and Thermal-Stress Field in a Turbine Blade with Multilayer-Structure TBCs by a Fluid-Solid Coupling Method. <i>Journal of Materials Science and Technology</i> , 2016, 32, 452-458.	5.6	39
83	Double effect of electrochemical reaction and substrate on hardness in electrodes of lithium-ion batteries. <i>Acta Mechanica</i> , 2016, 227, 2505-2510.	1.1	8
84	Influence of strain rate on the piezoresistive behavior of conductive polyamide composites. <i>Composites Science and Technology</i> , 2016, 133, 1-6.	3.8	11
85	Effects of oxygen vacancies on polarization stability of barium titanate. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016, 59, 1.	2.0	14
86	A facile method to prepare electrode materials for pseudocapacitors with superior capacitive performance. <i>Materials Letters</i> , 2016, 164, 421-424.	1.3	6
87	A kinetic model for diffusion and chemical reaction of silicon anode lithiation in lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 22383-22388.	1.7	26
88	A ternary sulphonium composite Cu ₃ BiS ₃ /S as cathode materials for lithium-sulfur batteries. <i>Journal of Materials Science</i> , 2016, 51, 5139-5145.	1.7	22
89	Sandwich-like CNTs@SnO ₂ /SnO/Sn anodes on three-dimensional Ni foam substrate for lithium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2016, 767, 49-55.	1.9	65
90	A twins-structural Sn@C core-shell composite as anode materials for lithium-ion batteries. <i>Composite Interfaces</i> , 2016, 23, 273-280.	1.3	13

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91	Acoustic emission assessment of interface cracking in thermal barrier coatings. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2016, 32, 342-348.	1.5	17
92	Failure modes of hollow core-shell structural active materials during the lithiation-delithiation process. <i>Journal of Power Sources</i> , 2015, 290, 114-122.	4.0	76
93	Finite Element Simulations on Erosion and Crack Propagation in Thermal Barrier Coatings. <i>High Temperature Materials and Processes</i> , 2015, 34, .	0.6	1
94	Materials can be strengthened by nanoscale stacking faults. <i>Europhysics Letters</i> , 2015, 110, 36002.	0.7	9
95	Optimal design of hollow core-shell structural active materials for lithium ion batteries. <i>Results in Physics</i> , 2015, 5, 250-252.	2.0	2
96	Frequency as a key parameter in discriminating the failure types of thermal barrier coatings: Cluster analysis of acoustic emission signals. <i>Surface and Coatings Technology</i> , 2015, 264, 97-104.	2.2	27
97	Intelligent Discrimination of Failure Modes in Thermal Barrier Coatings: Wavelet Transform and Neural Network Analysis of Acoustic Emission Signals. <i>Experimental Mechanics</i> , 2015, 55, 321-330.	1.1	18
98	Modelling the tuned criticality in stick-slip friction during metal cutting. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015, 23, 055013.	0.8	6
99	Size-dependent brittle-to-ductile transition in GaAs nano-rods. <i>Engineering Fracture Mechanics</i> , 2015, 150, 135-142.	2.0	5
100	A first principles study of the mechanical properties of Li-Sn alloys. <i>RSC Advances</i> , 2015, 5, 36022-36029.	1.7	41
101	The effect of morphology of thermally grown oxide on the stress field in a turbine blade with thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2015, 276, 160-167.	2.2	51
102	Determination of interfacial adhesion energies of thermal barrier coatings by compression test combined with a cohesive zone finite element model. <i>International Journal of Plasticity</i> , 2015, 64, 76-87.	4.1	105
103	Sulfur@metal cotton with superior cycling stability as cathode materials for rechargeable lithium-sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , 2015, 738, 184-187.	1.9	32
104	Joining of bulk metallic glass to brass by thick-walled cylinder explosion. <i>Scripta Materialia</i> , 2015, 97, 17-20.	2.6	26
105	Dynamic fragmentation induced by network-like shear bands in a Zr-based bulk metallic glass. <i>Intermetallics</i> , 2015, 56, 96-100.	1.8	13
106	Quantitative characterization of the interfacial adhesion of Ni thin film on steel substrate: A compression-induced buckling delamination test. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 74, 19-37.	2.3	8
107	Sulfur-Nickel Foam as Cathode Materials for Lithium-Sulfur Batteries. <i>ECS Electrochemistry Letters</i> , 2014, 4, A19-A21.	1.9	27
108	Deformation-induced phase transformation in 4H-SiC nanopillars. <i>Acta Materialia</i> , 2014, 80, 392-399.	3.8	16

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109	Quantitative assessment of the surface crack density in thermal barrier coatings. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2014, 30, 167-174.	1.5	21
110	Finite Element Simulation on Thermal Fatigue of a Turbine Blade with Thermal Barrier Coatings. <i>Journal of Materials Science and Technology</i> , 2014, 30, 371-380.	5.6	68
111	In-situ and real-time tests on the damage evolution and fracture of thermal barrier coatings under tension: A coupled acoustic emission and digital image correlation method. <i>Surface and Coatings Technology</i> , 2014, 240, 40-47.	2.2	44
112	Advanced amorphous nanoporous stannous oxide composite with carbon nanotubes as anode materials for lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 41281-41286.	1.7	22
113	Numerical study on interaction of surface cracking and interfacial delamination in thermal barrier coatings under tension. <i>Applied Surface Science</i> , 2014, 315, 292-298.	3.1	77
114	Optimal Linear Regression Estimator in the Fitting of Weibull Strength Distribution. <i>Journal of Testing and Evaluation</i> , 2014, 42, 1396-1407.	0.4	7
115	Strengthening Brittle Semiconductor Nanowires through Stacking Faults: Insights from in Situ Mechanical Testing. <i>Nano Letters</i> , 2013, 13, 4369-4373.	4.5	45
116	Measurement of the mechanical properties of nickel film based on the full-field deformation: An improved blister method. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 453-458.	1.8	4
117	Determination of interfacial adhesive properties for polymeric film by blister test. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 3033-3039.	1.7	2
118	Finite element analysis of crack propagation and fracture mechanical properties of freestanding 8wt.% Y ₂ O ₃ -ZrO ₂ coatings. <i>Surface and Coatings Technology</i> , 2013, 223, 87-91.	2.2	17
119	Prediction of Failure Modes during Deep Drawing of Metal Sheets with Nickel Coating. <i>Journal of Materials Science and Technology</i> , 2013, 29, 1059-1066.	5.6	8
120	Fracture characteristics of freestanding 8wt% Y ₂ O ₃ -ZrO ₂ coatings by single edge notched beam and Vickers indentation tests. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 581, 140-144.	2.6	38
121	Effect of sintering temperature on microstructure and strength distribution of alumina coil springs. <i>Advances in Applied Ceramics</i> , 2013, 112, 33-38.	0.6	2
122	Effect of Thermal Annealing on Nanostructure and Shape Transition in SiC-C Nanocomposites. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 435-440.	0.4	1
123	Self-healing of fractured one-dimensional brittle nanostructures. <i>Europhysics Letters</i> , 2012, 98, 16010.	0.7	3
124	Evaluation of microhardness, fracture toughness and residual stress in a thermal barrier coating system: A modified Vickers indentation technique. <i>Surface and Coatings Technology</i> , 2012, 206, 4455-4461.	2.2	62
125	Characterization of stress-strain relationships of elastoplastic materials: An improved method with conical and pyramidal indenters. <i>Mechanics of Materials</i> , 2012, 54, 113-123.	1.7	45
126	An Inverse Approach for Extracting Elastic-plastic Properties of Thin Films from Small Scale Sharp Indentation. <i>Journal of Materials Science and Technology</i> , 2012, 28, 626-635.	5.6	48

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127	Self-healing in fractured GaAs nanowires. <i>Acta Materialia</i> , 2012, 60, 5593-5600.	3.8	9
128	Residual stress effect on hardness and yield strength of Ni thin film. <i>Surface and Coatings Technology</i> , 2012, 207, 305-309.	2.2	33
129	Influence of microstructures on mechanical behaviours of SiC nanowires: a molecular dynamics study. <i>Nanotechnology</i> , 2012, 23, 025703.	1.3	47
130	A new method to determine the elastoplastic properties of ductile materials by conical indentation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 1032-1036.	2.0	7
131	Fracture statistics of dental ceramics: Discrimination of strength distributions. <i>Ceramics International</i> , 2012, 38, 4979-4990.	2.3	31
132	On the intrinsic hardness of a metallic film/substrate system: Indentation size and substrate effects. <i>International Journal of Plasticity</i> , 2012, 34, 1-11.	4.1	96
133	Acoustic emission analysis on tensile failure of air plasma-sprayed thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2012, 206, 3803-3807.	2.2	51
134	Mathematical Analysis on the Uniqueness of Reverse Algorithm for Measuring Elastic-plastic Properties by Sharp Indentation. <i>Journal of Materials Science and Technology</i> , 2011, 27, 577-584.	5.6	12
135	Multiscale monitoring of interface failure of brittle coating/ductile substrate systems: A non-destructive evaluation method combined digital image correlation with acoustic emission. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	19
136	Fracture statistics of brittle materials at micro- and nano-scales. <i>International Journal of Materials Research</i> , 2011, 102, 627-633.	0.1	5
137	Deformation behavior and mechanical properties of polycrystalline and single crystal alumina during nanoindentation. <i>Scripta Materialia</i> , 2011, 65, 127-130.	2.6	81
138	Damage evolution and rupture time prediction in thermal barrier coatings subjected to cyclic heating and cooling: An acoustic emission method. <i>Acta Materialia</i> , 2011, 59, 6519-6529.	3.8	81
139	Digital image correlation approach to cracking and decohesion in a brittle coating/ductile substrate system. <i>Applied Surface Science</i> , 2011, 257, 6040-6043.	3.1	51
140	Nanoscale elastic-plastic deformation and stress distributions of the C plane of sapphire single crystal during nanoindentation. <i>Journal of the European Ceramic Society</i> , 2011, 31, 1865-1871.	2.8	71
141	Effects of substrate curvature radius, deposition temperature and coating thickness on the residual stress field of cylindrical thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2011, 205, 3093-3102.	2.2	38
142	A modified layer-removal method for residual stress measurement in electrodeposited nickel films. <i>Thin Solid Films</i> , 2011, 519, 3249-3253.	0.8	14
143	Understanding large plastic deformation of SiC nanowires at room temperature. <i>Europhysics Letters</i> , 2011, 95, 63003.	0.7	9
144	Characterization of the interface adhesion of elastic-plastic thin film/rigid substrate systems using a pressurized blister test numerical model. <i>Mechanics of Materials</i> , 2010, 42, 908-915.	1.7	13

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145	Effects of piezo-spectroscopic coefficients of 8 wt.% Y2O3 stabilized ZrO2 on residual stress measurement of thermal barrier coatings by Raman spectroscopy. <i>Surface and Coatings Technology</i> , 2010, 204, 3573-3577.	2.2	42
146	Modeling of interfacial friction damping of carbon nanotube-based nanocomposites. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 2996-3012.	4.4	49
147	Effect of Young's modulus evolution on residual stress measurement of thermal barrier coatings by X-ray diffraction. <i>Applied Surface Science</i> , 2010, 256, 7311-7315.	3.1	83
148	Modelling permeability behaviour of polymer nanocomposites. , 2010, , 431-453.		2
149	Roles of grain boundary and dislocations at different deformation stages of nanocrystalline copper under tension. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 570-574.	0.9	37
150	Size and Volume Effects on the Strength of Microscale Lead-Free Solder Joints. <i>Journal of Electronic Materials</i> , 2009, 38, 2179-2183.	1.0	63
151	Anomalous electrical conductivity and percolation in carbon nanotube composites. <i>Journal of Materials Science</i> , 2008, 43, 6012-6015.	1.7	49
152	On the bending strength of ZnO nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 6113-6115.	0.9	9
153	Real-time acoustic emission testing based on wavelet transform for the failure process of thermal barrier coatings. <i>Applied Physics Letters</i> , 2008, 93, 231906.	1.5	60
154	Log-normal nanograin-size distributions in nanostructured composites. <i>Philosophical Magazine Letters</i> , 2008, 88, 829-836.	0.5	6
155	Comment on "On the tensile strength distribution of multiwalled carbon nanotubes" [Appl. Phys. Lett. 87, 203106 (2005)]. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	8
156	The Origin of Superhardness in Nanocomposite Coatings: Analysis of Nanoindentation and Scratch Tests. , 2007, , 39-49.		0
157	Nanoindentation-induced elastic-plastic transition and size effect in \pm -Al2O3(0001). <i>Philosophical Magazine Letters</i> , 2007, 87, 409-415.	0.5	49
158	Permeability modelling of polymer-layered silicate nanocomposites. <i>Composites Science and Technology</i> , 2007, 67, 2895-2902.	3.8	76
159	Model-based simulation of normal grain growth in a two-phase nanostructured system. <i>Science and Technology of Advanced Materials</i> , 2006, 7, 812-818.	2.8	9
160	Recent advances on understanding the origin of superhardness in nanocomposite coatings: A critical review. <i>Journal of Materials Science</i> , 2006, 41, 937-950.	1.7	90
161	Grain growth as a stochastic and curvature-driven process. <i>Philosophical Magazine Letters</i> , 2006, 86, 787-794.	0.5	5
162	Indentation Size Effect on Hardness of Nanostructured Thin Films. <i>Key Engineering Materials</i> , 2006, 312, 363-368.	0.4	6

#	ARTICLE	IF	CITATIONS
163	Monte Carlo Simulation of Microstructure and Grain Growth in nc-Ti(N) _{1-x} N _x . <i>Journal of Applied Physics</i> , 2006, 88, 144103.	0.4	742
164	Monte Carlo simulation of grain growth in two-phase nanocrystalline materials. <i>Applied Physics Letters</i> , 2006, 88, 144103.	1.5	23
165	The degree of predictability of earthquakes in several regions of China: statistical analysis of historical data. <i>Journal of Asian Earth Sciences</i> , 2005, 25, 379-385.	1.0	6
166	Optimum information in crackling noise. <i>Physical Review E</i> , 2005, 72, 027101.	0.8	25
167	A sudden drop of fractal dimension: a likely precursor of catastrophic failure in disordered media. <i>Philosophical Magazine Letters</i> , 2005, 85, 33-40.	0.5	41
168	Fractals and scaling in fracture induced by microcrack coalescence. <i>Philosophical Magazine Letters</i> , 2005, 85, 67-75.	0.5	5
169	Effects of Pore/Grain-Size Interaction and Porosity on the Fracture of Electroceramics. <i>Journal of Applied Physics</i> , 2005, 97, 411-420.		0
170	Influence of Aspect Ratio on Barrier Properties of Polymer-Clay Nanocomposites. <i>Physical Review Letters</i> , 2005, 95, 088303.	2.9	220
171	Scaling of fracture strength in ZnO: Effects of pore/grain-size interaction and porosity. <i>Journal of the European Ceramic Society</i> , 2004, 24, 3643-3651.	2.8	58
172	Fracture statistics of brittle materials: Weibull or normal distribution. <i>Physical Review E</i> , 2002, 65, 067102.	0.8	202
173	Influence of Threshold Stress on the Estimation of the Weibull Statistics. <i>Journal of the American Ceramic Society</i> , 2002, 85, 1640-1642.	1.9	53
174	Statistical analysis of synthetic earthquake catalogs generated by models with various levels of fault zone disorder. <i>Journal of Geophysical Research</i> , 2001, 106, 11115-11125.	3.3	14
175	Application of Linked Stress Release Model to Historical Earthquake Data: Comparison between Two Kinds of Tectonic Seismicity. <i>Journal of Geophysical Research</i> , 2000, 105, 2351-2364.		13
176	Application of Linked Stress Release Model to Historical Earthquake Data: Comparison between Two Kinds of Tectonic Seismicity. <i>Journal of Geophysical Research</i> , 2000, 105, 2351-2364.		0
177	SPATIO-TEMPORAL SEISMICITY IN AN ELASTIC BLOCK LATTICE MODEL. <i>Fractals</i> , 1999, 07, 301-311.	1.8	5
178	Avalanche Behavior and Statistical Properties in a Microcrack Coalescence Process. <i>Physical Review Letters</i> , 1999, 82, 347-350.	2.9	38
179	A linked stress release model for historical Japanese earthquakes: coupling among major seismic regions. <i>Earth, Planets and Space</i> , 1999, 51, 907-916.	0.9	40
180	Self-organized criticality in a block lattice model of the brittle crust. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 242, 349-354.	0.9	6

#	ARTICLE	IF	CITATIONS
181	On the validity of the slit islands analysis in the measure of fractal dimension of fracture surfaces. International Journal of Fracture, 1995, 69, R77-R80.	1.1	4
182	Evolution induced catastrophe. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 185, 196-200.	0.9	40
183	Analysis and Simulation of Evolution Induced Catastrophe. Chinese Physics Letters, 1993, 10, 155-158.	1.3	7