Chunsheng Lu

List of Publications by Year in descending order

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184 papers 4,834 citations

39 h-index 59 g-index

185 all docs

185 docs citations

185 times ranked 4093 citing authors

#	Article	IF	CITATIONS
1	Advances in oxidation and ablation resistance of high and ultra-high temperature ceramics modified or coated carbon/carbon composites. Journal of the European Ceramic Society, 2018, 38, 1-28.	5.7	283
2	Influence of Aspect Ratio on Barrier Properties of Polymer-Clay Nanocomposites. Physical Review Letters, 2005, 95, 088303.	7.8	220
3	Fracture statistics of brittle materials: Weibull or normal distribution. Physical Review E, 2002, 65, 067102.	2.1	202
4	Determination of interfacial adhesion energies of thermal barrier coatings by compression test combined with a cohesive zone finite element model. International Journal of Plasticity, 2015, 64, 76-87.	8.8	105
5	On the intrinsic hardness of a metallic film/substrate system: Indentation size and substrate effects. International Journal of Plasticity, 2012, 34, 1-11.	8.8	96
6	Recent advances on understanding the origin of superhardness in nanocomposite coatings: A critical review. Journal of Materials Science, 2006, 41, 937-950.	3.7	90
7	Effect of Young's modulus evolution on residual stress measurement of thermal barrier coatings by X-ray diffraction. Applied Surface Science, 2010, 256, 7311-7315.	6.1	83
8	Deformation behavior and mechanical properties of polycrystalline and single crystal alumina during nanoindentation. Scripta Materialia, 2011, 65, 127-130.	5.2	81
9	Damage evolution and rupture time prediction in thermal barrier coatings subjected to cyclic heating and cooling: An acoustic emission method. Acta Materialia, 2011, 59, 6519-6529.	7.9	81
10	Investigation on the static and dynamic behaviors of non-pneumatic tires with honeycomb spokes. Composite Structures, 2018, 187, 27-35.	5.8	80
11	Numerical study on interaction of surface cracking and interfacial delamination in thermal barrier coatings under tension. Applied Surface Science, 2014, 315, 292-298.	6.1	77
12	Permeability modelling of polymer-layered silicate nanocomposites. Composites Science and Technology, 2007, 67, 2895-2902.	7.8	76
13	Failure modes of hollow core–shell structural active materials during the lithiation–delithiation process. Journal of Power Sources, 2015, 290, 114-122.	7.8	76
14	Nanoscale elastic–plastic deformation and stress distributions of the C plane of sapphire single crystal during nanoindentation. Journal of the European Ceramic Society, 2011, 31, 1865-1871.	5.7	71
15	Finite Element Simulation on Thermal Fatigue of a Turbine Blade with Thermal Barrier Coatings. Journal of Materials Science and Technology, 2014, 30, 371-380.	10.7	68
16	Sandwich-like CNTs@SnO 2 /SnO/Sn anodes on three-dimensional Ni foam substrate for lithium ion batteries. Journal of Electroanalytical Chemistry, 2016, 767, 49-55.	3.8	65
17	Fracture predictions based on a coupled chemo-mechanical model with strain gradient plasticity theory for film electrodes of Li-ion batteries. Engineering Fracture Mechanics, 2021, 253, 107866.	4. 3	64
18	Size and Volume Effects on the Strength of Microscale Lead-Free Solder Joints. Journal of Electronic Materials, 2009, 38, 2179-2183.	2.2	63

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19	Evaluation of microhardness, fracture toughness and residual stress in a thermal barrier coating system: A modified Vickers indentation technique. Surface and Coatings Technology, 2012, 206, 4455-4461.	4.8	62
20	Real-time acoustic emission testing based on wavelet transform for the failure process of thermal barrier coatings. Applied Physics Letters, 2008, 93, 231906.	3. 3	60
21	Scaling of fracture strength in ZnO: Effects of pore/grain-size interaction and porosity. Journal of the European Ceramic Society, 2004, 24, 3643-3651.	5.7	58
22	Influence of Threshold Stress on the Estimation of the Weibull Statistics. Journal of the American Ceramic Society, 2002, 85, 1640-1642.	3.8	53
23	Digital image correlation approach to cracking and decohesion in a brittle coating/ductile substrate system. Applied Surface Science, 2011, 257, 6040-6043.	6.1	51
24	Acoustic emission analysis on tensile failure of air plasma-sprayed thermal barrier coatings. Surface and Coatings Technology, 2012, 206, 3803-3807.	4.8	51
25	The effect of morphology of thermally grown oxide on the stress field in a turbine blade with thermal barrier coatings. Surface and Coatings Technology, 2015, 276, 160-167.	4.8	51
26	Nanoindentation-induced elastic–plastic transition and size effect inα-Al2O3(0001). Philosophical Magazine Letters, 2007, 87, 409-415.	1.2	49
27	Anomalous electrical conductivity and percolation in carbon nanotube composites. Journal of Materials Science, 2008, 43, 6012-6015.	3.7	49
28	Modeling of interfacial friction damping of carbon nanotube-based nanocomposites. Mechanical Systems and Signal Processing, 2010, 24, 2996-3012.	8.0	49
29	An Inverse Approach for Extracting Elastic–plastic Properties of Thin Films from Small Scale Sharp Indentation. Journal of Materials Science and Technology, 2012, 28, 626-635.	10.7	48
30	Influence of microstructures on mechanical behaviours of SiC nanowires: a molecular dynamics study. Nanotechnology, 2012, 23, 025703.	2.6	47
31	Failure Prediction of High-Capacity Electrode Materials in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2016, 163, A1157-A1163.	2.9	46
32	Characterization of stress-strain relationships of elastoplastic materials: An improved method with conical and pyramidal indenters. Mechanics of Materials, 2012, 54, 113-123.	3.2	45
33	Strengthening Brittle Semiconductor Nanowires through Stacking Faults: Insights from in Situ Mechanical Testing. Nano Letters, 2013, 13, 4369-4373.	9.1	45
34	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. Surface and Coatings Technology, 2014, 240, 40-47.	4.8	44
35	Effects of piezo-spectroscopic coefficients of 8 wt.% Y2O3 stabilized ZrO2 on residual stress measurement of thermal barrier coatings by Raman spectroscopy. Surface and Coatings Technology, 2010, 204, 3573-3577.	4.8	42
36	A sudden drop of fractal dimension: a likely precursor of catastrophic failure in disordered media. Philosophical Magazine Letters, 2005, 85, 33-40.	1.2	41

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37	A first principles study of the mechanical properties of Li–Sn alloys. RSC Advances, 2015, 5, 36022-36029.	3.6	41
38	An electrochemical-irradiated plasticity model for metallic electrodes in lithium-ion batteries. International Journal of Plasticity, 2017, 88, 188-203.	8.8	41
39	Investigation of sudden faults instability induced by coal mining. Safety Science, 2019, 115, 256-264.	4.9	41
40	Theoretical analysis on the extension of a piezoelectric semi-conductor nanowire: Effects of flexoelectricity and strain gradient. Journal of Applied Physics, 2020, 127, .	2.5	41
41	Evolution induced catastrophe. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 185, 196-200.	2.1	40
42	A linked stress release model for historical Japanese earthquakes: coupling among major seismic regions. Earth, Planets and Space, 1999, 51, 907-916.	2.5	40
43	Nano-scale elastic-plastic properties and indentation-induced deformation of single crystal 4H-SiC. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 66, 172-180.	3.1	40
44	A relation to predict the failure of materials and potential application to volcanic eruptions and landslides. Scientific Reports, 2016, 6, 27877.	3.3	39
45	Numerical Simulation of Temperature Distribution and Thermal-Stress Field in a Turbine Blade with Multilayer-Structure TBCs by a Fluid–Solid Coupling Method. Journal of Materials Science and Technology, 2016, 32, 452-458.	10.7	39
46	Avalanche Behavior and Statistical Properties in a Microcrack Coalescence Process. Physical Review Letters, 1999, 82, 347-350.	7.8	38
47	Effects of substrate curvature radius, deposition temperature and coating thickness on the residual stress field of cylindrical thermal barrier coatings. Surface and Coatings Technology, 2011, 205, 3093-3102.	4.8	38
48	Fracture characteristics of freestanding 8wt% Y2O3–ZrO2 coatings by single edge notched beam and Vickers indentation tests. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 581, 140-144.	5.6	38
49	Roles of grain boundary and dislocations at different deformation stages of nanocrystalline copper under tension. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 570-574.	2.1	37
50	Residual stress effect on hardness and yield strength of Ni thin film. Surface and Coatings Technology, 2012, 207, 305-309.	4.8	33
51	Sulfur@metal cotton with superior cycling stability as cathode materials for rechargeable lithium–sulfur batteries. Journal of Electroanalytical Chemistry, 2015, 738, 184-187.	3.8	32
52	Stress–strain relationships of Li Sn alloys for lithium ion batteries. Journal of Power Sources, 2016, 311, 21-28.	7.8	32
53	Fracture statistics of dental ceramics: Discrimination of strength distributions. Ceramics International, 2012, 38, 4979-4990.	4.8	31
54	Sulfur-Nickel Foam as Cathode Materials for Lithium-Sulfur Batteries. ECS Electrochemistry Letters, 2014, 4, A19-A21.	1.9	27

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55	Frequency as a key parameter in discriminating the failure types of thermal barrier coatings: Cluster analysis of acoustic emission signals. Surface and Coatings Technology, 2015, 264, 97-104.	4.8	27
56	Joining of bulk metallic glass to brass by thick-walled cylinder explosion. Scripta Materialia, 2015, 97, 17-20.	5.2	26
57	A kinetic model for diffusion and chemical reaction of silicon anode lithiation in lithium ion batteries. RSC Advances, 2016, 6, 22383-22388.	3.6	26
58	Softening by electrochemical reaction-induced dislocations in lithium-ion batteries. Scripta Materialia, 2017, 127, 33-36.	5.2	26
59	Optimum information in crackling noise. Physical Review E, 2005, 72, 027101.	2.1	25
60	Quasi-static and dynamic experimental studies on the tensile strength and failure pattern of concrete and mortar discs. Scientific Reports, 2017, 7, 15305.	3.3	25
61	Nano-scale elastic–plastic properties and indentation-induced deformation of amorphous silicon carbide thin film. Ceramics International, 2017, 43, 385-391.	4.8	24
62	Monte Carlo simulation of grain growth in two-phase nanocrystalline materials. Applied Physics Letters, 2006, 88, 144103.	3.3	23
63	Mechanical properties of Li–Sn alloys for Li-ion battery anodes: A first-principles perspective. AIP Advances, 2016, 6, .	1.3	23
64	Advanced amorphous nanoporous stannous oxide composite with carbon nanotubes as anode materials for lithium-ion batteries. RSC Advances, 2014, 4, 41281-41286.	3.6	22
65	A metallic glass syntactic foam with enhanced energy absorption performance. Scripta Materialia, 2016, 119, 47-50.	5.2	22
66	A ternary sulphonium composite Cu3BiS3/S as cathode materials for lithium–sulfur batteries. Journal of Materials Science, 2016, 51, 5139-5145.	3.7	22
67	Electric Current Dependent Fracture in GaN Piezoelectric Semiconductor Ceramics. Materials, 2018, 11, 2000.	2.9	22
68	Deformation and failure processes of kaolinite under tension: Insights from molecular dynamics simulations. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	22
69	Quantitative assessment of the surface crack density in thermal barrier coatings. Acta Mechanica Sinica/Lixue Xuebao, 2014, 30, 167-174.	3.4	21
70	Effects of size and concentration on diffusion-induced stress in lithium-ion batteries. Journal of Applied Physics, $2016, 120, \ldots$	2.5	21
71	Modeling diffusion–induced stress on two-phase lithiation in lithium-ion batteries. European Journal of Mechanics, A/Solids, 2018, 71, 320-325.	3.7	21
72	Influence of electric field and current on the strength of depoled GaN piezoelectric semiconductive ceramics. Ceramics International, 2018, 44, 4169-4175.	4.8	21

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73	Analysis of anti-plane interface cracks in one-dimensional hexagonal quasicrystal coating. Applied Mathematical Modelling, 2020, 81, 641-652.	4.2	21
74	Mechanistic investigations of N-doped graphene/2H(1T)-MoS2 for Li/K-ions batteries. Nano Energy, 2020, 78, 105352.	16.0	20
75	A meshfree method with gradient smoothing for free vibration and buckling analysis of a strain gradient thin plate. Engineering Analysis With Boundary Elements, 2021, 132, 159-167.	3.7	20
76	A chemo-mechanical model coupled with thermal effect on the hollow core–shell electrodes in lithium-ion batteries. Theoretical and Applied Mechanics Letters, 2017, 7, 199-206.	2.8	20
77	Multiscale monitoring of interface failure of brittle coating/ductile substrate systems: A non-destructive evaluation method combined digital image correlation with acoustic emission. Journal of Applied Physics, 2011, 110, .	2.5	19
78	Mechanical properties, stress distributions and nanoscale deformation mechanisms in single crystal 6H-SiC by nanoindentation. Journal of Alloys and Compounds, 2017, 708, 1046-1053.	5. 5	19
79	Enhancement Effects of Co Doping on Interfacial Properties of Sn Electrodeâ^'Collector: A First-Principles Study. ACS Applied Materials & Samp; Interfaces, 2019, 11, 24648-24658.	8.0	19
80	Oxidation behaviors of ZrB2 based ultra-high temperature ceramics under compressive stress. Ceramics International, 2019, 45, 7278-7285.	4.8	19
81	Spatio-temporal dynamics of jerky flow in high-entropy alloy at extremely low temperature. Philosophical Magazine, 2021, 101, 154-178.	1.6	19
82	Intelligent Discrimination of Failure Modes in Thermal Barrier Coatings: Wavelet Transform and Neural Network Analysis of Acoustic Emission Signals. Experimental Mechanics, 2015, 55, 321-330.	2.0	18
83	Three-dimensional smoothed particle hydrodynamics simulation for injection molding flow of short fiber-reinforced polymer composites. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 055007.	2.0	18
84	Characterization on the yield stress and interfacial coefficient of friction of glasses from scratch tests. Ceramics International, 2020, 46, 6060-6066.	4.8	18
85	Hydrogen induced slowdown of spallation in high entropy alloy under shock loading. International Journal of Plasticity, 2021, 139, 102944.	8.8	18
86	Finite element analysis of crack propagation and fracture mechanical properties of freestanding 8wt.% Y2O3â€"ZrO2 coatings. Surface and Coatings Technology, 2013, 223, 87-91.	4.8	17
87	Acoustic emission assessment of interface cracking in thermal barrier coatings. Acta Mechanica Sinica/Lixue Xuebao, 2016, 32, 342-348.	3.4	17
88	Deformation-induced phase transformation in 4H–SiC nanopillars. Acta Materialia, 2014, 80, 392-399.	7.9	16
89	Influence of polarization on the electromechanical properties of GaN piezoelectric semiconductive ceramics. Ceramics International, 2018, 44, 12648-12654.	4.8	16
90	Analysis of interface cracks in one-dimensional hexagonal quasi-crystal coating under in-plane loads. Engineering Fracture Mechanics, 2021, 243, 107534.	4.3	16

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91	Effects of flexoelectricity and strain gradient on bending vibration characteristics of piezoelectric semiconductor nanowires. Journal of Applied Physics, 2021, 129, .	2.5	16
92	The Changeable Power Law Singularity and its Application to Prediction of Catastrophic Rupture in Uniaxial Compressive Tests of Geomedia. Journal of Geophysical Research: Solid Earth, 2018, 123, 2645-2657.	3.4	15
93	Hardening Ni3Al via complex stacking faults and twinning boundary. Computational Materials Science, 2021, 188, 110201.	3.0	15
94	Statistical analysis of synthetic earthquake catalogs generated by models with various levels of fault zone disorder. Journal of Geophysical Research, 2001, 106, 11115-11125.	3.3	14
95	A modified layer-removal method for residual stress measurement in electrodeposited nickel films. Thin Solid Films, 2011, 519, 3249-3253.	1.8	14
96	Effects of oxygen vacancies on polarization stability of barium titanate. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	14
97	A direction-dependent shear strength criterion for rock joints with two new roughness parameters. Arabian Journal of Geosciences, $2018,11,1.$	1.3	14
98	Temperature Gradient-Dominated Electrical Behaviours in a Piezoelectric PN Junction. Journal of Electronic Materials, 2021, 50, 947-953.	2.2	14
99	Application of Linked Stress Release Model to Historical Earthquake Data: Comparison between Two Kinds of Tectonic Seismicity. , 2000, 157, 2351-2364.		13
100	Characterization of the interface adhesion of elastic–plastic thin film/rigid substrate systems using a pressurized blister test numerical model. Mechanics of Materials, 2010, 42, 908-915.	3.2	13
101	Dynamic fragmentation induced by network-like shear bands in a Zr-based bulk metallic glass. Intermetallics, 2015, 56, 96-100.	3.9	13
102	A twins-structural Sn@C core–shell composite as anode materials for lithium-ion batteries. Composite Interfaces, 2016, 23, 273-280.	2.3	13
103	Entropy evolution during crack propagation in concrete under sulfate attack. Construction and Building Materials, 2019, 209, 492-498.	7.2	13
104	Mathematical Analysis on the Uniqueness of Reverse Algorithm for Measuring Elastic-plastic Properties by Sharp Indentation. Journal of Materials Science and Technology, 2011, 27, 577-584.	10.7	12
105	Anisotropic mechanical properties of Si anodes in a lithiation process of lithium-ion batteries. Acta Mechanica, 2018, 229, 3293-3303.	2.1	12
106	A stable and efficient meshfree Galerkin method with consistent integration schemes for strain gradient thin beams and plates. Thin-Walled Structures, 2020, 153, 106791.	5.3	12
107	Application of the homopoty analysis method to nonlinear characteristics of a piezoelectric semiconductor fiber. Applied Mathematics and Mechanics (English Edition), 2021, 42, 665-676.	3.6	12
108	Effects of bedding planes on the fracture characteristics of coal under dynamic loading. Engineering Fracture Mechanics, 2021, 250, 107761.	4.3	12

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109	Interaction between the edge dislocation dipole pair and interfacial misfit dislocation network in Ni-based single crystal superalloys. International Journal of Solids and Structures, 2021, 228, 111128.	2.7	12
110	Influence of strain rate on the piezoresistive behavior of conductive polyamide composites. Composites Science and Technology, 2016, 133, 1-6.	7.8	11
111	Sluggish hydrogen diffusion and hydrogen decreasing stacking fault energy in a high-entropy alloy. Materials Today Communications, 2021, 26, 101902.	1.9	11
112	Coupled electrochemical-mechanical modeling with strain gradient plasticity for lithium-ion battery electrodes. European Journal of Mechanics, A/Solids, 2021, 87, 104230.	3.7	11
113	Interfacial fracture analysis for a two-dimensional decagonal quasi-crystal coating layer structure. Applied Mathematics and Mechanics (English Edition), 2021, 42, 1633-1648.	3.6	11
114	Fractal Cracking Patterns in Concretes Exposed to Sulfate Attack. Materials, 2019, 12, 2338.	2.9	10
115	Consistent integration schemes for meshfree analysis of strain gradient elasticity. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112601.	6.6	10
116	Model-based simulation of normal grain growth in a two-phase nanostructured system. Science and Technology of Advanced Materials, 2006, 7, 812-818.	6.1	9
117	On the bending strength of ZnO nanowires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6113-6115.	2.1	9
118	Understanding large plastic deformation of SiC nanowires at room temperature. Europhysics Letters, 2011, 95, 63003.	2.0	9
119	Self-healing in fractured GaAs nanowires. Acta Materialia, 2012, 60, 5593-5600.	7.9	9
120	Materials can be strengthened by nanoscale stacking faults. Europhysics Letters, 2015, 110, 36002.	2.0	9
121	Reliability assessment on interfacial failure of thermal barrier coatings. Acta Mechanica Sinica/Lixue Xuebao, 2016, 32, 915-924.	3.4	9
122	On the wurtzite to tetragonal phase transformation in ZnO nanowires. Nanotechnology, 2017, 28, 165705.	2.6	9
123	A constitutive model coupling irradiation with two-phase lithiation for lithium-ion battery electrodes. Philosophical Magazine, 2019, 99, 992-1013.	1.6	9
124	Nanoscale elasticâ€plastic deformation and mechanical properties of 3Câ€5iC thin film using nanoindentation. International Journal of Applied Ceramic Technology, 2019, 16, 706-717.	2.1	9
125	Lithiation-induced interfacial failure of electrode-collector: A first-principles study. Materials Chemistry and Physics, 2019, 222, 193-199.	4.0	9
126	A Statistical Evolution Model of Concrete Damage Induced by Seawater Corrosion. Materials, 2021, 14, 1007.	2.9	9

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127	Simultaneously achieving strength and ductility in Ni3Al nanowires with superlattice intrinsic stacking faults. International Journal of Mechanical Sciences, 2022, 215, 106953.	6.7	9
128	Comment on "On the tensile strength distribution of multiwalled carbon nanotubes―[Appl. Phys. Lett. 87, 203106 (2005)]. Applied Physics Letters, 2008, 92, .	3.3	8
129	Prediction of Failure Modes during Deep Drawing of Metal Sheets with Nickel Coating. Journal of Materials Science and Technology, 2013, 29, 1059-1066.	10.7	8
130	Quantitative characterization of the interfacial adhesion of Ni thin film on steel substrate: A compression-induced buckling delamination test. Journal of the Mechanics and Physics of Solids, 2015, 74, 19-37.	4.8	8
131	Double effect of electrochemical reaction and substrateon hardness in electrodes of lithium-ion batteries. Acta Mechanica, 2016, 227, 2505-2510.	2.1	8
132	Low-velocity impact behaviors of glass fiber-reinforced polymer laminates embedded with shape memory alloy. Composite Structures, 2021, 272, 114194.	5.8	8
133	Analysis and Simulation of Evolution Induced Catastrophe. Chinese Physics Letters, 1993, 10, 155-158.	3.3	7
134	A new method to determine the elastoplastic properties of ductile materials by conical indentation. Science China: Physics, Mechanics and Astronomy, 2012, 55, 1032-1036.	5.1	7
135	An iterative approach for analysis of cracks with exact boundary conditions in finite magnetoelectroelastic solids. Smart Materials and Structures, 2019, 28, 055025.	3.5	7
136	Interactions between butterfly-like prismatic dislocation loop pairs and planar defects in Ni ₃ Al. Physical Chemistry Chemical Physics, 2021, 23, 10377-10383.	2.8	7
137	Optimal Linear Regression Estimator in the Fitting of Weibull Strength Distribution. Journal of Testing and Evaluation, 2014, 42, 1396-1407.	0.7	7
138	Self-organized criticality in a block lattice model of the brittle crust. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 242, 349-354.	2.1	6
139	The degree of predictability of earthquakes in several regions of China: statistical analysis of historical data. Journal of Asian Earth Sciences, 2005, 25, 379-385.	2.3	6
140	Indentation Size Effect on Hardness of Nanostructured Thin Films. Key Engineering Materials, 2006, 312, 363-368.	0.4	6
141	Log-normal nanograin-size distributions in nanostructured composites. Philosophical Magazine Letters, 2008, 88, 829-836.	1.2	6
142	Modelling the tuned criticality in stick-slip friction during metal cutting. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 055013.	2.0	6
143	SnO2/Reduced Graphene Oxide Nanocomposite as Anode Material for Lithium-lon Batteries with Enhanced Cyclability. Journal of Nanoscience and Nanotechnology, 2016, 16, 4136-4140.	0.9	6
144	A facile method to prepare electrode materials for pseudocapacitors with superior capacitive performance. Materials Letters, 2016, 164, 421-424.	2.6	6

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145	Smoothed particle hydrodynamics simulation for injection molding flow of short fiber-reinforced polymer composites. Journal of Composite Materials, 2018, 52, 1531-1539.	2.4	6
146	Determination of the Fracture Toughness of Glasses via Scratch Tests with a Vickers Indenter. Acta Mechanica Solida Sinica, 2022, 35, 129-138.	1.9	6
147	SPATIO-TEMPORAL SEISMICITY IN AN ELASTIC BLOCK LATTICE MODEL. Fractals, 1999, 07, 301-311.	3.7	5
148	Fractals and scaling in fracture induced by microcrack coalescence. Philosophical Magazine Letters, 2005, 85, 67-75.	1.2	5
149	Grain growth as a stochastic and curvature-driven process. Philosophical Magazine Letters, 2006, 86, 787-794.	1.2	5
150	Fracture statistics of brittle materials at micro- and nano-scales. International Journal of Materials Research, 2011, 102, 627-633.	0.3	5
151	Size-dependent brittle-to-ductile transition in GaAs nano-rods. Engineering Fracture Mechanics, 2015, 150, 135-142.	4.3	5
152	Effect of carbon ion irradiation on the structural, mechanical and electrical properties of polycrystalline tungsten. Materials Research Express, 2019, 6, 066551.	1.6	5
153	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.	2.2	4
154	Measurement of the mechanical properties of nickel film based on the full-field deformation: An improved blister method. Progress in Natural Science: Materials International, 2013, 23, 453-458.	4.4	4
155	Anisotropic electromechanical properties of GaN ceramics caused by polarisation. Ceramics International, 2020, 46, 5331-5336.	4.8	4
156	Nonlinear analysis of a crack in 2D piezoelectric semiconductors with exact electric boundary conditions. Journal of Intelligent Material Systems and Structures, 2021, 32, 632-639.	2.5	4
157	Temperature-dependent bending strength in piezoelectric semiconductive ceramics. Ceramics International, 2022, 48, 2771-2775.	4.8	4
158	Nonlinear Solution of a Piezoelectric PN Junction Under Temperature Gradient. International Journal of Applied Mechanics, 2022, 14, .	2.2	4
159	Monte Carlo Simulation of Microstructure and Grain Growth in nc-Ti(N,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 ²	Tf 50 182	Tdွ (B)/a-(TiB
160	Self-healing of fractured one-dimensional brittle nanostructures. Europhysics Letters, 2012, 98, 16010.	2.0	3
161	Non-trivial avalanches triggered by shear banding in compression of metallic glass foams. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, .	2.1	3
162	Mobility of the {0110} inversion domain boundary in ZnO nanopillars. Materials Letters, 2021, 305, 130778.	2.6	3

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163	Modelling permeability behaviour of polymer nanocomposites. , 2010, , 431-453.		2
164	Determination of interfacial adhesive properties for polymeric film by blister test. Transactions of Nonferrous Metals Society of China, 2013, 23, 3033-3039.	4.2	2
165	Effect of sintering temperature on microstructure and strength distribution of alumina coil springs. Advances in Applied Ceramics, 2013, 112, 33-38.	1.1	2
166	Optimal design of hollow core–shell structural active materials for lithium ion batteries. Results in Physics, 2015, 5, 250-252.	4.1	2
167	Electric field-induced toughening in GaN piezoelectric semiconductor ceramics. Ceramics International, 2019, 45, 6589-6593.	4.8	2
168	Influence of Different Freezing Modes on the Base Slab Displacement of an Upper Structure. Applied Sciences (Switzerland), 2020, 10, 27.	2.5	2
169	Repeatable mechanical energy absorption of ZnO nanopillars. Materials Today Communications, 2021, 29, 102904.	1.9	2
170	Displacement discontinuity method for interfacial cracks in one-dimensional hexagonal quasi-crystal coating under thermal-mechanical loading. Journal of Thermal Stresses, 2022, 45, 517-537.	2.0	2
171	Polarization-dominated thermal-electric-mechanical behaviours in GaN ceramics. Ceramics International, 2022, , .	4.8	2
172	Effect of Thermal Annealing on Nanostructure and Shape Transition in SiC–C Nanocomposites. Nanoscience and Nanotechnology Letters, 2012, 4, 435-440.	0.4	1
173	Finite Element Simulations on Erosion and Crack Propagation in Thermal Barrier Coatings. High Temperature Materials and Processes, 2015, 34, .	1.4	1
174	Evolution of the Electrical Displacement and Energy Dissipation of Lead Zirconate-Titanate Ceramics under Cyclical Load. Advances in Materials Science and Engineering, 2020, 2020, 1-12.	1.8	1
175	Atomistic modeling for the extremely low and high temperature-dependent yield strength in a Ni-based single crystal superalloy. Materials Today Communications, 2021, 27, 102451.	1.9	1
176	The degree of predictability of earthquakes in several regions of China: statistical analysis of historical data. Journal of Asian Earth Sciences, 2005, 25, 379-385.	2.3	1
177	Modelling Temperature Effects for Prismatic Lithium Manganese Oxide Batteries. Materials Focus, 2018, 7, 207-216.	0.4	1
178	Thermal fracture analysis of a two-dimensional decagonal quasicrystal coating structure with interface cracks. Mechanics of Advanced Materials and Structures, 2023, 30, 2001-2016.	2.6	1
179	Effects of Pore/Grain-Size Interaction and Porosity on the Fracture of Electroceramics. , 2005, , 411-420.		0
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