Xi Chen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2999946/publications.pdf

Version: 2024-02-01

453 papers 15,883 citations

63 h-index 103 g-index

456 all docs

456 docs citations

456 times ranked

13259 citing authors

#	Article	IF	CITATIONS
1	Learn from nature: Bioâ€inspired structure design for lithiumâ€ion batteries. EcoMat, 2022, 4, .	6.8	8
2	CO ₂ reduction on single-atom Ir catalysts with chemical functionalization. Physical Chemistry Chemical Physics, 2022, 24, 3733-3740.	1.3	3
3	Reversible Mechanochromisms via Manipulating Surface Wrinkling. Nano Letters, 2022, 22, 2261-2269.	4.5	25
4	Ni-Fe bimetallic hexaaluminate for efficient reduction of O2-containing CO2 via chemical looping. Chemical Engineering Journal, 2022, 441, 136071.	6.6	11
5	Flexible Piezoionic Strain Sensors toward Artificial Intelligence Applications. Synlett, 2022, 33, 1486-1491.	1.0	3
6	Development of sorbent materials for direct air capture of CO2. MRS Bulletin, 2022, 47, 405-415.	1.7	15
7	The method of introducing oxygen vacancy into La0.8Sr0.2FeO3-based catalyst: enhancing the ORR and OER performance. Journal of Materials Science, 2022, 57, 12364-12376.	1.7	3
8	Superior CO2 uptake and enhanced compressive strength for carbonation curing of cement-based materials via flue gas. Construction and Building Materials, 2022, 346, 128364.	3.2	10
9	Piezoionic strain sensors enabled by force-voltage coupling from ionogels. Chemical Physics Letters, 2022, 803, 139872.	1.2	3
10	Study on the mechanism of catalytic synthesis of dimethyldichlorosilane by AlCl 3 /MILâ€53(Al)@γâ€Al 2 O 3. Applied Organometallic Chemistry, 2021, 35, .	1.7	8
11	Recent progress in energy storage and conversion of flexible symmetric transducers. Journal of Materials Chemistry A, 2021, 9, 753-781.	5.2	17
12	Molecular dynamics investigation on the composition separation of binary organic mixture in a double-walled T-shaped carbon nanotube separator. Journal of Molecular Liquids, 2021, 321, 114498.	2.3	1
13	Strong bases behave as weak bases in nanoscale chemical environments: implication in humidity-swing CO2 air capture. Physical Chemistry Chemical Physics, 2021, 23, 14811-14817.	1.3	7
14	Simple pyrolysis of polystyrene into valuable chemicals. E-Polymers, 2021, 21, 428-432.	1.3	17
15	MOFs/PVA hybrid membranes with enhanced mechanical and ion-conductive properties. E-Polymers, 2021, 21, 160-165.	1.3	9
16	Fractal-inspired soft deployable structure: a theoretical study. Soft Matter, 2021, 17, 4834-4841.	1.2	3
17	Nanomaterials for adsorption and conversion of CO2 under gentle conditions. Materials Today, 2021, 50, 385-399.	8.3	21
18	Post-wrinkling behaviors of a bilayer on a soft substrate. International Journal of Solids and Structures, 2021, 214-215, 74-79.	1.3	6

#	Article	IF	CITATIONS
19	Bismuth Oxychloride Nanowires for Photocatalytic Decomposition of Organic Dyes. ACS Applied Nano Materials, 2021, 4, 3887-3892.	2.4	21
20	Bioinspired, Treeâ€Rootâ€Like Interfacial Designs for Structural Batteries with Enhanced Mechanical Properties. Advanced Energy Materials, 2021, 11, 2100997.	10.2	27
21	Silver decorated graphene nanocomposites toward electrochemical energy storage. Chemical Physics Letters, 2021, 771, 138534.	1.2	6
22	Curvature-controlled delamination patterns of thin films on spherical substrates. IScience, 2021, 24, 102616.	1.9	1
23	Highly Sensitive Ultrastable Electrochemical Sensor Enabled by Proton-Coupled Electron Transfer. Nano Letters, 2021, 21, 5369-5376.	4.5	19
24	Flexible Resistance-Type Strain Sensors toward Monitoring Finger Movements. Synlett, 2021, 32, 1939-1942.	1.0	2
25	Capture of ambient air CO2 from municipal wastewater mineralization by using an ion-exchange membrane. Science of the Total Environment, 2021, 790, 148136.	3.9	5
26	On the snake-like lateral un-dulatory locomotion in terrestrial, aquatic and sand environments. Journal of the Mechanics and Physics of Solids, 2021, 157, 104629.	2.3	3
27	Flexible Composite Solid Electrolyte with an Active Inorganic Filler. ACS Sustainable Chemistry and Engineering, 2021, 9, 2237-2245.	3.2	13
28	Photocatalytic reduction of CO ₂ by halide perovskites: recent advances and future perspectives. Materials Advances, 2021, 2, 7187-7209.	2.6	27
29	Screening and Understanding Li Adsorption on Two-Dimensional Metallic Materials by Learning Physics and Physics-Simplified Learning. Jacs Au, 2021, 1, 1904-1914.	3.6	12
30	CO2 removal from natural gas by moisture swing adsorption. Chemical Engineering Research and Design, 2021, 176, 162-168.	2.7	11
31	Nanostructure Engineering of Graphitic Carbon Nitride for Electrochemical Applications. ACS Nano, 2021, 15, 18777-18793.	7.3	61
32	A PVA/LiCl/PEO interpenetrating composite electrolyte with a three-dimensional dual-network for all-solid-state flexible aluminum–air batteries. RSC Advances, 2021, 11, 39476-39483.	1.7	10
33	Effects of low-temperature plasma treatment on wettability of glass surface: Molecular dynamic simulation and experimental study. Applied Surface Science, 2020, 503, 144257.	3.1	29
34	Sorbenten zur direkten Gewinnung von CO ₂ aus der Umgebungsluft. Angewandte Chemie, 2020, 132, 7048-7072.	1.6	18
35	Sorbents for the Direct Capture of CO ₂ from Ambient Air. Angewandte Chemie - International Edition, 2020, 59, 6984-7006.	7.2	341
36	Engineering interfacial adhesion for high-performance lithium metal anode. Nano Energy, 2020, 67, 104242.	8.2	34

#	Article	IF	CITATIONS
37	Comment on "Accelerated Discovery of New 8-Electron Half-Heusler Compounds as Promising Energy and Topological Quantum Materials― Journal of Physical Chemistry C, 2020, 124, 2247-2249.	1.5	13
38	Sea-island nanostructured polyvinylidene fluoride/zeolitic imidazolate framework-8 polyelectrolyte for high-performance all-solid-state supercapacitors. Journal of Power Sources, 2020, 448, 227587.	4.0	23
39	Interface characterization and scratch resistance of plasma sprayed TiO2-CNTs nanocomposite coating. Journal of Alloys and Compounds, 2020, 819, 153009.	2.8	18
40	Interaction between mechanosensitive channels embedded in lipid membrane. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103543.	1.5	2
41	Nacreâ€Inspired Composite Electrolytes for Loadâ€Bearing Solidâ€State Lithiumâ€Metal Batteries. Advanced Materials, 2020, 32, e1905517.	11.1	100
42	Latest Advances in Flexible Symmetric Supercapacitors: From Material Engineering to Wearable Applications. Accounts of Chemical Research, 2020, 53, 1468-1477.	7.6	72
43	Filtration performance of the granular bed filter used for industrial flue gas purification: A review of simulation and experiment. Separation and Purification Technology, 2020, 251, 117318.	3.9	26
44	How interlayer twist angles affect thermal conduction of double-walled nanotubes: A non-equilibrium molecular dynamics study. International Journal of Heat and Mass Transfer, 2020, 160, 120234.	2.5	5
45	Moisture-Driven CO2 Sorbents. Joule, 2020, 4, 1823-1837.	11.7	65
46	Carbon nanotubes/graphitic carbon nitride nanocomposites for all-solid-state supercapacitors. Science China Technological Sciences, 2020, 63, 1714-1720.	2.0	14
47	MnO ₂ Synergized with N/S Codoped Graphene as a Flexible Cathode Efficient Electrocatalyst for Advanced Honeycomb-Shaped Stretchable Aluminum–Air Batteries. Langmuir, 2020, 36, 12954-12962.	1.6	14
48	Highly efficient reduction of O2-containing CO2 via chemical looping based on perovskite nanocomposites. Nano Energy, 2020, 78, 105320.	8.2	32
49	CO ₂ Absorption over Ion Exchange Resins: The Effect of Amine Functional Groups and Microporous Structures. Industrial & Engineering Chemistry Research, 2020, 59, 16507-16515.	1.8	25
50	Development of Adhesion Durability Evaluation of Surface Coatings Using Repeated Laser Shock-wave Adhesion Test. Journal of Nondestructive Evaluation, 2020, 39, 1.	1.1	2
51	A carbon-doped anatase TiO2-Based flexible silicon anode with high-performance and stability for flexible lithium-ion battery. Journal of Power Sources, 2020, 466, 228339.	4.0	29
52	Separation of binary organic mixture in T-shaped carbon nanotube separator: Insights from molecular dynamics simulation. Journal of Molecular Liquids, 2020, 312, 113371.	2.3	7
53	Monodispersed LiFePO ₄ @C Core-Shell Nanoparticles Anchored on 3D Carbon Cloth for High-Rate Performance Binder-Free Lithium Ion Battery Cathode. Journal of Nanomaterials, 2020, 2020, 1-11.	1.5	4
54	Understanding transport and separation of organic mixed working fluids in T-junction from multi-scale insights: Literature review and case study. International Journal of Heat and Mass Transfer, 2020, 154, 119702.	2.5	12

#	Article	IF	CITATIONS
55	Measurements of fracture properties of MWCNTs modified LiNi0.5Mn0.3Co0.2O2 electrodes by a modified shear lag model. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 781, 139223.	2.6	2
56	Singleâ€Atom Catalytic Materials for Advanced Battery Systems. Advanced Materials, 2020, 32, e1906548.	11.1	156
57	Rapid and continuous regulating adhesion strength by mechanical micro-vibration. Nature Communications, 2020, 11, 1583.	5.8	23
58	Single-atom Catalytic Materials for Lean-electrolyte Ultrastable Lithium–Sulfur Batteries. Nano Letters, 2020, 20, 5522-5530.	4.5	111
59	Hydrothermal Synthesis of Nanomaterials. Journal of Nanomaterials, 2020, 2020, 1-3.	1.5	249
60	Flexible and Electroactive Ionogel Graphene Composite Actuator. Materials, 2020, 13, 656.	1.3	16
61	A Nanoâ€shield Design for Separators to Resist Dendrite Formation in Lithiumâ€Metal Batteries. Angewandte Chemie, 2020, 132, 6623-6628.	1.6	14
62	Two-step synthesis of millimeter-scale flexible tubular supercapacitors. Communications Chemistry, 2020, 3, .	2.0	13
63	All-Temperature Flexible Supercapacitors Enabled by Antifreezing and Thermally Stable Hydrogel Electrolyte. Nano Letters, 2020, 20, 1907-1914.	4.5	232
64	A Nanoâ€shield Design for Separators to Resist Dendrite Formation in Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 6561-6566.	7.2	128
65	High-performance silicon nanocomposite based ionic actuators. Journal of Materials Chemistry A, 2020, 8, 9228-9238.	5.2	16
66	Surface buckling delamination patterns of film on soft spherical substrates. Soft Matter, 2020, 16, 3952-3961.	1.2	4
67	Flexible and ion-conductive ionogel towards energy storage application. Chemical Physics Letters, 2020, 755, 137814.	1.2	4
68	Porous Perovskite towards Oxygen Reduction Reaction in Flexible Aluminum-Air Battery. Acta Chimica Sinica, 2020, 78, 557.	0.5	3
69	Examination of Prestressed Coating/Substrate Systems Using Spherical Indentation—Determination of Film Prestress, Film Modulus, and Substrate Modulus. Journal of Engineering Materials and Technology, Transactions of the ASME, 2020, 142, .	0.8	0
70	Strainâ€Guided Oxidative Nanoperforation on Graphene. Small, 2019, 15, e1903213.	5.2	5
71	On the surface hydrophilization of a blended polysulfone membrane: atomic force microscopy measurement and molecular dynamics simulation. Surface Topography: Metrology and Properties, 2019, 7, 035003.	0.9	6
72	An interfacial polymerization strategy towards high-performance flexible supercapacitors. Journal of Materials Chemistry A, 2019, 7, 20158-20161.	5.2	24

#	Article	IF	Citations
73	Moisture Swing Ion-Exchange Resin-PO ₄ Sorbent for Reversible CO ₂ Capture from Ambient Air. Energy & Sorbent for Reversible CO ₂ Capture	2.5	24
74	Preparation of Three-Layer Graphene Sheets from Asphaltenes Using a Montmorillonite Template. Journal of Nanomaterials, 2019, 2019, 1-6.	1.5	7
75	Electrospun Polyaniline Nanofiber Networks toward Highâ€Performance Flexible Supercapacitors. Advanced Materials Technologies, 2019, 4, 1900564.	3.0	39
76	Effect of Local Terrace on Structure and Mechanics of Graphene Grain Boundary. Journal of Physical Chemistry C, 2019, 123, 28460-28468.	1.5	4
77	Strengthening effect of rhenium on different substitution positions of tungsten nanofilm at high temperature: DFT and molecular dynamics simulation. Materials Research Express, 2019, 6, 115013.	0.8	0
78	Vibration-to-Electric Energy Conversion via Electric Double Layer Redistribution of Graphene-Nickel Foam Electrode. Journal of the Electrochemical Society, 2019, 166, A3280-A3286.	1.3	1
79	Degradation of tetracycline by peroxymonosulfate activated with zero-valent iron: Performance, intermediates, toxicity and mechanism. Chemical Engineering Journal, 2019, 364, 45-56.	6.6	466
80	Designing Flexible Lithium-Ion Batteries by Structural Engineering. ACS Energy Letters, 2019, 4, 690-701.	8.8	175
81	Three-dimensional auxetic properties in group V–VI binary monolayer crystals X ₃ M ₂ (X = S, Se; M = N, P, As). Physical Chemistry Chemical Physics, 2019, 21, 5916-5924.	1.3	10
82	Harvesting Low-Grade Heat via Thermal-Induced Electric Double Layer Redistribution of Nanoporous Graphene Films. Langmuir, 2019, 35, 7713-7719.	1.6	10
83	<i>In situ</i> synthesized PEO/NBR composite ionogels for high-performance all-solid-state supercapacitors. Chemical Communications, 2019, 55, 8470-8473.	2.2	17
84	Buckling morphology of an elastic ring confined in an annular channel. Soft Matter, 2019, 15, 5443-5448.	1.2	6
85	Ultra-Thin Conductive Graphitic Carbon Nitride Assembly through van der Waals Epitaxy toward High-Energy-Density Flexible Supercapacitors. Nano Letters, 2019, 19, 4103-4111.	4.5	80
86	Mechanical modeling of pimple growth. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 95, 191-195.	1.5	1
87	Effects of technology parameters on stress in silicon-graphite based multilayer electrodes for lithium ion batteries. Journal Physics D: Applied Physics, 2019, 52, 345501.	1.3	4
88	Elementary Slender Soft Robots Inspired by Skeleton Joint System of Animals. Soft Robotics, 2019, 6, 377-388.	4.6	10
89	Effects of cycle times and C-rate on mechanical properties of copper foil and adhesive strength of electrodes in commercial LiCoO2 LIBs. Engineering Failure Analysis, 2019, 101, 193-205.	1.8	22
90	In-operando deformation studies on the mechano-electrochemical mechanism in free-standing MWCNTs/V2O5 lithium ion battery electrode. Electrochimica Acta, 2019, 305, 101-115.	2.6	24

#	Article	IF	CITATIONS
91	Molecular Dynamics-Decorated Finite Element Method (MDeFEM): Application to the Gating Mechanism of Mechanosensitive Channels. , 2019, , 77-128.		0
92	Correlation between the infiltration behaviors and nanoporous structures of silica gel/liquid energy absorption system. Journal of Applied Physics, 2019, 125, 065106.	1.1	3
93	Porous g-C ₃ N ₄ covered MOF-derived nanocarbon materials for high-performance supercapacitors. RSC Advances, 2019, 9, 39076-39081.	1.7	14
94	Reversible SO ₂ Removal from Simulated Flue Gas by Ion Exchange Membranes Using the Humidity-Swing. Energy & Samp; Fuels, 2019, 33, 10953-10958.	2.5	3
95	Synergistic effect of supercritical CO ₂ and organic solvent on exfoliation of graphene: experiment and atomistic simulation studies. Physical Chemistry Chemical Physics, 2019, 21, 22149-22157.	1.3	13
96	Gating and inactivation of mechanosensitive channels of small conductance: A continuum mechanics study. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 502-514.	1.5	2
97	In situ strain measurements and stress analysis of SiO@C composite electrodes during electrochemical cycling by using digital image correlation. Solid State Ionics, 2019, 331, 56-65.	1.3	21
98	Rapid Programmable Nanodroplet Motion on a Strain-Gradient Surface. Langmuir, 2019, 35, 2865-2870.	1.6	19
99	Three dimensional buckling beam under cylindrical constraint. International Journal of Mechanical Sciences, 2019, 150, 348-355.	3.6	11
100	Porous insulating matrix for lithium metal anode with long cycling stability and high power. Energy Storage Materials, 2019, 17, 31-37.	9.5	36
101	Highâ€Energyâ€Density Foldable Battery Enabled by Zigzagâ€Like Design. Advanced Energy Materials, 2019, 9, 1802998.	10.2	53
102	Accordion-like stretchable Li-ion batteries with high energy density. Energy Storage Materials, 2019, 17, 136-142.	9.5	57
103	Mechanisms of electromechanical wrinkling for highly stretched substrate-free dielectric elastic membrane. Journal of the Mechanics and Physics of Solids, 2019, 122, 520-537.	2.3	21
104	Indentation Fatigue Mechanics., 2019,, 401-431.		0
105	Helical Buckling Behaviors of the Nanowire/Substrate System. , 2019, , 241-287.		O
106	Uniqueness of Elastoplastic Properties Measured by Instrumented Indentation., 2019,, 211-240.		1
107	Spherical Indentation on a Prestressed Elastic Coating/Substrate System., 2019, , 129-152.		O
108	Hydrogen Embrittlement Cracking Produced by Indentation Test. , 2019, , 289-313.		0

#	Article	IF	Citations
109	Effects of Temperature and Strain Rate on Mechanical Behaviors of Stone–Wales Defective Monolayer Black Phosphorene. Journal of Physical Chemistry C, 2018, 122, 6368-6378.	1.5	17
110	Crush behaviors of polyvinyl chloride cellular structures with liquid filler. Composite Structures, 2018, 189, 428-434.	3.1	2
111	Snell's law of elastic waves propagation on moving property interface of time-varying materials. International Journal of Solids and Structures, 2018, 143, 18-28.	1.3	4
112	Bioinspired, Spineâ€Like, Flexible, Rechargeable Lithiumâ€Ion Batteries with High Energy Density. Advanced Materials, 2018, 30, e1704947.	11.1	109
113	Closed-edged bilayer phosphorene nanoribbons producing from collapsing armchair phosphorene nanotubes. Nanotechnology, 2018, 29, 085707.	1.3	8
114	Ballistic performance of UHMWPE fabrics/EAMS hybrid panel. Journal of Materials Science, 2018, 53, 7357-7371.	1.7	34
115	Theoretical investigation on the oxidation mechanism of dibutyl phthalate by hydroxyl and sulfate radicals in the gas and aqueous phase. Chemical Engineering Journal, 2018, 339, 381-392.	6.6	18
116	Measurement of Interfacial Fracture Toughness of Surface Coatings Using Pulsed-Laser-Induced Ultrasonic Waves. Journal of Nondestructive Evaluation, 2018, 37, 1.	1.1	10
117	Quaternized Chitosan/PVA Aerogels for Reversible CO ₂ Capture from Ambient Air. Industrial & Description of the Company of the Comp	1.8	79
118	Study on Gamma Prime and Carbides of Alloy A286 by Traditional Thermodynamic Calculation. High Temperature Materials and Processes, 2018, 37, 495-507.	0.6	3
119	Narrow band gap and high mobility of lead-free perovskite single crystal Sn-doped MA ₃ Sb ₂ I ₉ . Journal of Materials Chemistry A, 2018, 6, 20753-20759.	5.2	67
120	Unconventional localization prior to wrinkles and controllable surface patterns of film/substrate bilayers through patterned cavities. Extreme Mechanics Letters, 2018, 25, 66-70.	2.0	3
121	Tunable surface morphology via patterned cavities in soft materials. Physical Review E, 2018, 98, .	0.8	2
122	Humidity effect on ion behaviors of moisture-driven CO2 sorbents. Journal of Chemical Physics, 2018, 149, 164708.	1.2	25
123	In-situ characterizations of chemo-mechanical behavior of free-standing vanadium pentoxide cathode for lithium-ion batteries during discharge-charge cycling using digital image correlation. Journal of Power Sources, 2018, 402, 272-280.	4.0	24
124	Predicting a two-dimensional P2S3 monolayer: A global minimum structure. Computational Materials Science, 2018, 155, 288-292.	1.4	8
125	PVDF/Palygorskite Nanowire Composite Electrolyte for 4 V Rechargeable Lithium Batteries with High Energy Density. Nano Letters, 2018, 18 , $6113-6120$.	4.5	227
126	Coarse-grained area-difference-elasticity membrane model coupled with IB–LB method for simulation of red blood cell morphology. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 1183-1194.	1.2	3

#	Article	IF	CITATIONS
127	Effects of superheat and internal heat exchanger on thermo-economic performance of organic Rankine cycle based on fluid type and heat sources. Energy, 2018, 159, 482-495.	4.5	44
128	Oxidation-induced negative Poisson's ratio of phosphorene. Journal of Physics Condensed Matter, 2018, 30, 315302.	0.7	4
129	Investigation of inner mechanism of anisotropic mechanical property of antler bone. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 88, 1-10.	1.5	7
130	Effect of Degassing on the Stability and Reversibility of Glycerol/ZSM-5 Zeolite System. Applied Sciences (Switzerland), 2018, 8, 1065.	1.3	8
131	Acoustic actuators based on the resonance of an acoustic-film system applied to the actuation of soft robots. Journal of Sound and Vibration, 2018, 432, 310-326.	2.1	1
132	A multilayer structure shear lag model applied in the tensile fracture characteristics of supersonic plasma sprayed thermal barrier coating systems based on digital image correlation. Surface and Coatings Technology, 2018, 350, 211-226.	2.2	31
133	Strain and defect engineering on phase transition of monolayer black phosphorene. Physical Chemistry Chemical Physics, 2018, 20, 21832-21843.	1.3	8
134	Prediction of a two-dimensional S3N2 solid for optoelectronic applications. Physical Review Materials, $2018, 2, \ldots$	0.9	10
135	Molecular Dynamics-Decorated Finite Element Method (MDeFEM): Application to the Gating Mechanism of Mechanosensitive Channels., 2018,, 1-52.		0
136	Helical Buckling Behaviors of the Nanowire/Substrate System. , 2018, , 1-47.		0
137	Hydrogen Embrittlement Cracking Produced by Indentation Test. , 2018, , 1-25.		0
138	Spherical Indentation on a Prestressed Elastic Coating/Substrate System., 2018, , 1-24.		0
139	Indentation Fatigue Mechanics. , 2018, , 1-31.		0
140	Crashworthiness Analysis of Electric Vehicle With Energy-Absorbing Battery Modules. Journal of Engineering Materials and Technology, Transactions of the ASME, 2017, 139, .	0.8	12
141	Delamination-Based Measurement and Prediction of the Adhesion Energy of Thin Film/Substrate Interfaces. Journal of Engineering Materials and Technology, Transactions of the ASME, 2017, 139, .	0.8	8
142	Special Issue Honoring Professor George Z. Voyiadjis: Multi-physical Solutions for Harsh Environments: Computations and Experiments. Journal of Engineering Materials and Technology, Transactions of the ASME, 2017, 139, .	0.8	0
143	Self-Assembly of Islands on Spherical Substrates by Surface Instability. ACS Nano, 2017, 11, 2611-2617.	7.3	14
144	A biologically inspired artificial muscle based on fiber-reinforced and electropneumatic dielectric elastomers. Smart Materials and Structures, 2017, 26, 085018.	1.8	20

#	Article	IF	Citations
145	Architectures of soft robotic locomotion enabled by simple mechanical principles. Soft Matter, 2017, 13, 4441-4456.	1.2	26
146	Three dimensional wave propagation in time-varying materials: A mathematical model based on the weak solutions of continuity in the moving property interface. Applied Mathematical Modelling, 2017, 48, 134-152.	2.2	3
147	Mechanism of Surface Wrinkle Modulation for a Stiff Film on Compliant Substrate. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	1.1	17
148	Economic analysis of a new class of vanadium redox-flow battery for medium- and large-scale energy storage in commercial applications with renewable energy. Applied Thermal Engineering, 2017, 114, 802-814.	3.0	55
149	A novel slithering locomotion mechanism for a snake-like soft robot. Journal of the Mechanics and Physics of Solids, 2017, 99, 304-320.	2.3	30
150	CO2 adsorption and separation from natural gason phosphorene surface: Combining DFT and GCMC calculations. Applied Surface Science, 2017, 397, 206-212.	3.1	23
151	Vibration-to-electric energy conversion with porous graphene oxide-nickel electrode. Journal of Power Sources, 2017, 368, 73-77.	4.0	7
152	Helical buckling of wires embedded in a soft matrix under axial compression. Extreme Mechanics Letters, 2017, 17, 71-76.	2.0	10
153	Energy efficiency of mobile soft robots. Soft Matter, 2017, 13, 8223-8233.	1.2	36
154	The catalytic effect of H ₂ O on the hydrolysis of CO ₃ ^{2â^²} in hydrated clusters and its implication in the humidity driven CO ₂ air capture. Physical Chemistry Chemical Physics, 2017, 19, 27435-27441.	1.3	27
155	Development of a Transferable Reactive Force Field of P/H Systems: Application to the Chemical and Mechanical Properties of Phosphorene. Journal of Physical Chemistry A, 2017, 121, 6135-6149.	1.1	38
156	Direct coupling between molecular dynamics and lattice Boltzmann method based on velocity distribution functions for steady-state isothermal flow. International Journal of Heat and Mass Transfer, 2017, 115, 544-555.	2.5	5
157	A multifunctional battery module design for electric vehicle. Journal of Modern Transportation, 2017, 25, 218-222.	2.5	2
158	Self-assembled nanocapsules in water: a molecular mechanistic study. Physical Chemistry Chemical Physics, 2017, 19, 20377-20382.	1.3	3
159	Molecular dynamics simulation on explosive boiling of liquid argon film on copper nanochannels. Applied Thermal Engineering, 2017, 113, 208-214.	3.0	74
160	Mass transfer mechanisms of rotary atomization: A numerical study using the moving particle semi-implicit method. International Journal of Heat and Mass Transfer, 2017, 105, 90-101.	2.5	13
161	Strain rate behavior of pure aluminum in conical indentation with different indenter control methods. International Journal of Computational Methods and Experimental Measurements, 2017, 6, 515-526.	0.1	2
162	Capture CO ₂ from Ambient Air Using Nanoconfined Ion Hydration. Angewandte Chemie, 2016, 128, 4094-4097.	1.6	37

#	Article	IF	Citations
163	Effects of intrinsic strain on the structural stability and mechanical properties of phosphorene nanotubes. Nanotechnology, 2016, 27, 215701.	1.3	32
164	Capture CO ₂ from Ambient Air Using Nanoconfined Ion Hydration. Angewandte Chemie - International Edition, 2016, 55, 4026-4029.	7.2	66
165	Effects of Intrinsic Strain on the Structural Stability and Mechanical Properties of Phosphorene Nanotubes. , 2016, , .		1
166	Self-Assembly of Protruding Islands on Spherical Substrates by Surface Instability., 2016,,.		0
167	First-principles study of the defected phosphorene under tensile strain. Journal of Applied Physics, 2016, 120, 165104.	1.1	16
168	Folding to Curved Surfaces: A Generalized Design Method and Mechanics of Origami-based Cylindrical Structures. Scientific Reports, 2016, 6, 33312.	1.6	32
169	Effect of the Adjustable Inner Secondary Air-Flaring Angle of Swirl Burner on Coal-Opposed Combustion. Journal of Energy Engineering - ASCE, 2016, 142, 04015018.	1.0	5
170	High temperature digital image correlation evaluation of in-situ failure mechanism: An experimental framework with application to C/SiC composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 665, 26-34.	2.6	22
171	On compressive deformation behavior of hollow-strut cellular materials. Materials and Design, 2016, 105, 1-8.	3.3	13
172	Mechanism of glucose conversion in supercritical water by DFT study. Journal of Analytical and Applied Pyrolysis, 2016, 119, 199-207.	2.6	35
173	In-situ measurements of mechanical and volume change of LiCoO2 lithium-ion batteries during repeated charge–discharge cycling by using digital image correlation. Measurement: Journal of the International Measurement Confederation, 2016, 94, 759-770.	2.5	47
174	Degradation of refractory dibutyl phthalate by peroxymonosulfate activated with novel catalysts cobalt metal-organic frameworks: Mechanism, performance, and stability. Journal of Hazardous Materials, 2016, 318, 154-163.	6.5	164
175	Hydrogen separation by porous phosphorene: A periodical DFT study. International Journal of Hydrogen Energy, 2016, 41, 23067-23074.	3.8	23
176	The Effect of Moisture on the Hydrolysis of Basic Salts. Chemistry - A European Journal, 2016, 22, 18326-18330.	1.7	36
177	Abrupt out-of-plane edge folding of a circular thin plate: Implication for a mature Victoria regia leaf. European Physical Journal E, 2016, 39, 85.	0.7	5
178	Gating mechanism of mechanosensitive channel of large conductance: a coupled continuum mechanical-continuum solvation approach. Biomechanics and Modeling in Mechanobiology, 2016, 15, 1557-1576.	1.4	10
179	Helical coil buckling mechanism for a stiff nanowire on an elastomeric substrate. Journal of the Mechanics and Physics of Solids, 2016, 95, 25-43.	2.3	44
180	Band gap and oxygen vacancy diffusion of anatase (101) surface: the effect of strain. Theoretical Chemistry Accounts, 2016, 135, 1.	0.5	6

#	Article	IF	CITATIONS
181	Quantitative evaluation of adhesion quality of surface coating by using pulse laser-induced ultrasonic waves. Surface and Coatings Technology, 2016, 286, 231-238.	2.2	26
182	Mechanical design and analysis of a crawling locomotion enabled by a laminated beam. Extreme Mechanics Letters, 2016, 8, 88-95.	2.0	21
183	Thermal conductivity of armchair black phosphorus nanotubes: a molecular dynamics study. Nanotechnology, 2016, 27, 155703.	1.3	26
184	Mechanism of the Transition From In-Plane Buckling to Helical Buckling for a Stiff Nanowire on an Elastomeric Substrate. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	1.1	21
185	A flexoelectric theory with rotation gradient effects for elastic dielectrics. Modelling and Simulation in Materials Science and Engineering, 2016, 24, 015009.	0.8	25
186	Characterization of the compressive deformation behavior with strain rate effect of low-density polymeric foams. Polymer Testing, 2016, 50, 1-8.	2.3	16
187	Aerobic and anaerobic microbial degradation of crude (4-methylcyclohexyl)methanol in river sediments. Science of the Total Environment, 2016, 547, 78-86.	3.9	10
188	Degradation of cis - and trans -(4-methylcyclohexyl) methanol in activated sludge. Journal of Hazardous Materials, 2016, 306, 247-256.	6.5	5
189	Experimental study on thermal effect on infiltration mechanisms of glycerol into ZSM-5 zeolite under cyclic loadings. Journal Physics D: Applied Physics, 2016, 49, 025303.	1.3	18
190	Investigation of the mechanical behaviour of lithium-ion batteries by an indentation technique. International Journal of Mechanical Sciences, 2016, 105, 1-10.	3.6	18
191	Deformation modeling of polyvinylidenedifluoride (PVDF) symmetrical microfiltration hollow-fiber (HF) membrane. Journal of Membrane Science, 2016, 497, 421-429.	4.1	14
192	Reply of the comments on "Dynamic modeling and simulation of Shell gasifier in IGCC― Fuel Processing Technology, 2015, 138, 825.	3.7	0
193	Understanding flocculation mechanism of graphene oxide for organic dyes from water: Experimental and molecular dynamics simulation. AIP Advances, 2015, 5, .	0.6	42
194	Mechanical properties of phosphorene nanoribbons and oxides. Journal of Applied Physics, 2015, 118, .	1.1	30
195	Numerical Study of Gasâ€Liquid Flow in Dualâ€Contactâ€Flow Absorber with Oneâ€Dimensional Twoâ€Way Coupled Model. Canadian Journal of Chemical Engineering, 2015, 93, 1556-1566.	0.9	0
196	Effect of dynamic strain rate on micro-indentation properties of pure aluminum. EPJ Web of Conferences, 2015, 94, 04034.	0.1	3
197	A reformulated flexoelectric theory for isotropic dielectrics. Journal Physics D: Applied Physics, 2015, 48, 465502.	1.3	59
198	First-principles study of lithium adsorption and diffusion on graphene: the effects of strain. Materials Research Express, 2015, 2, 105016.	0.8	20

#	Article	IF	CITATIONS
199	Lead Toxicity to the Performance, Viability, And Community Composition of Activated Sludge Microorganisms. Environmental Science & Environmental Scien	4.6	80
200	Unveiling the initial pyrolytic mechanisms of cellulose by DFT study. Journal of Analytical and Applied Pyrolysis, 2015, 113, 621-629.	2.6	87
201	Lead removal from solution by a porous ceramisite made from bentonite, metallic iron, and activated carbon. Environmental Science: Water Research and Technology, 2015, 1, 814-822.	1.2	14
202	A bibliometric review on carbon cycling research during 1993–2013. Environmental Earth Sciences, 2015, 74, 6065-6075.	1.3	34
203	Superelasticity and reversible energy absorption of polyurethane cellular structures with sand filler. Composite Structures, 2015, 131, 966-974.	3.1	28
204	Characterization of Hydrogen-Induced Contact Fracture in High-Strength Steel. Journal of Engineering Materials and Technology, Transactions of the ASME, 2015, 137, .	0.8	2
205	Experimental Study on Laminar Flame Speed of Natural Gas/Carbon Monoxide/Air Mixtures. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37, 576-582.	1.2	3
206	Experimental investigation of the biaxial strength of thermal barrier coating system. Ceramics International, 2015, 41, 8945-8955.	2.3	7
207	The Coupling of Strain and Lithium Diffusion: A Theoretical Model Based on First-Principles Calculations. Journal of the Electrochemical Society, 2015, 162, A2266-A2270.	1.3	18
208	A mechanical model of overnight hair curling. European Physical Journal E, 2015, 38, 95.	0.7	0
209	Numerical analysis of CMAS penetration induced interfacial delamination of transversely isotropic ceramic coat in thermal barrier coating system. Surface and Coatings Technology, 2015, 280, 100-109.	2.2	15
210	A Method to Estimate Residual Stress in Austenitic Stainless Steel Using a Microindentation Test. Journal of Materials Engineering and Performance, 2015, 24, 362-372.	1.2	19
211	Effects of rolling rate on microstructure and mechanical properties of Mg sheets. International Journal of Materials Research, 2014, 105, 502-506.	0.1	0
212	MOLECULAR CHARACTERISTICS OF DISSOCIATED WATER WITH MEMORY EFFECT FROM METHANE HYDRATES. International Journal of Modern Physics B, 2014, 28, 1450062.	1.0	26
213	Tensile deformation of polytetrafluoroethylene hollow fiber membranes used for water purification. Water Science and Technology, 2014, 70, 1244-1250.	1.2	5
214	Closure to "Discussion of â€~Nanoscale Fluid Mechanics and Energy Conversion'―(Chen, X., Xu, B., and)	Tj ₄ ETQq0 () 0 rgBT /Ov
215	Non-dissipative energy capture of confined liquid in nanopores. Applied Physics Letters, 2014, 104, 203107.	1.5	21
216	Research on Pinholes in Aluminum Foil. Advanced Materials Research, 2014, 884-885, 308-311.	0.3	0

#	Article	lF	CITATIONS
217	An analysis of copper film mechanical properties by means of nanoindentation technique., 2014,,.		1
218	Novel spherical TiO2 supported PdNi alloy catalyst for methanol electroxidation. Journal of Industrial and Engineering Chemistry, 2014, 20, 1223-1226.	2.9	5
219	Molecular dynamics simulation of sulphur nucleation in S–H ₂ S system. Molecular Physics, 2014, 112, 947-955.	0.8	19
220	Crystallinity and morphological evolution of hydrothermally synthesized potassium manganese oxide nanowires. Ceramics International, 2014, 40, 1245-1250.	2.3	8
221	Precipitation phenomenon of nanoparticles in power-law fluids over a rotating disk. Microfluidics and Nanofluidics, 2014, 17, 107-114.	1.0	13
222	Quasi-static crush behavior of hollow microtruss filled with NMF liquid. Composite Structures, 2014, 115, 29-40.	3.1	29
223	Mitigating impact/blast energy via a novel nanofluidic energy capture mechanism. Journal of the Mechanics and Physics of Solids, 2014, 62, 194-208.	2.3	43
224	Mechanical properties of nanoporous graphene membrane. Journal of Applied Physics, 2014, 115, 034303.	1.1	70
225	Thermal Stress in Fabrication of Thermal Barrier Coatings. Journal of Thermal Stresses, 2014, 37, 1390-1415.	1.1	15
226	Quasi-static energy absorption of hollow microlattice structures. Composites Part B: Engineering, 2014, 67, 39-49.	5.9	52
227	Dynamic energy absorption characteristics of hollow microlattice structures. Mechanics of Materials, 2014, 77, 1-13.	1.7	43
228	Evolution of thermal stress in a coating/substrate system during the cooling process of fabrication. Mechanics of Materials, 2014, 74, 26-40.	1.7	29
229	Sulfate radical-induced degradation of Acid Orange 7 by a new magnetic composite catalyzed peroxymonosulfate oxidation process. Journal of Hazardous Materials, 2014, 279, 476-484.	6.5	53
230	Micro-scale damage characterization in porous ceramics by an acoustic emission technique. Ceramics International, 2014, 40, 9859-9866.	2.3	13
231	Nanoscale Fluid Mechanics and Energy Conversion. Applied Mechanics Reviews, 2014, 66, .	4.5	51
232	Phylogenetic and Metagenomic Analyses of Substrate-Dependent Bacterial Temporal Dynamics in Microbial Fuel Cells. PLoS ONE, 2014, 9, e107460.	1.1	16
233	Mechanical Self-Assembly vs. Morphogenesis. , 2013, , 9-23.		0
234	Effect of High Strain Rate on Indentation in Pure Aluminum. Journal of Engineering Materials and Technology, Transactions of the ASME, 2013, 135, .	0.8	16

#	Article	IF	CITATIONS
235	Modified infiltration of solvated ions and ionic liquid in a nanoporous carbon. Applied Physics A: Materials Science and Processing, 2013, 112, 885-889.	1.1	7
236	Energy absorption ability of buckyball C720 at low impact speed: a numerical study based on molecular dynamics. Nanoscale Research Letters, 2013, 8, 54.	3.1	8
237	Investigation of PdSn nanometals alloy supported on spherical TiO2 for methanol electro-oxidation. Powder Technology, 2013, 241, 1-6.	2.1	9
238	Liquid flow-induced energy harvesting in carbon nanotubes: a molecular dynamics study. Physical Chemistry Chemical Physics, 2013, 15, 1164-1168.	1.3	31
239	Fluid particle group reaction model and experimental verification. Advanced Powder Technology, 2013, 24, 200-206.	2.0	6
240	On the mechanism of intergranular stress corrosion cracking of sensitized stainless steel in tetrathionate solution. Journal of Materials Science, 2013, 48, 2447-2453.	1.7	16
241	Mechanical analysis of eyelid morphology. Acta Biomaterialia, 2013, 9, 7968-7976.	4.1	15
242	A novel TiO2 nanofiber supported PdAg catalyst for methanol electro-oxidation. Energy, 2013, 59, 478-483.	4.5	15
243	Spherical indentation method for measuring local mechanical properties of welded stainless steel at high temperature. Materials & Design, 2013, 52, 812-820.	5.1	24
244	Probing out-of-plane anisotropic plasticity using spherical indentation: A numerical approach. Computational Materials Science, 2013, 79, 336-344.	1.4	8
245	Contact fracture mechanism of electroplated Ni–P coating upon stainless steel substrate. Materials Science & Science & Properties, Microstructure and Processing, 2013, 563, 184-192.	2.6	20
246	Molecular dynamics simulation of impact response of buckyballs. Mechanics Research Communications, 2013, 49, 8-12.	1.0	12
247	Hydrothermal preparation and photocatalytic performance of N, S-doped nanometer TiO2 under sunshine irradiation. Powder Technology, 2013, 237, 616-622.	2.1	35
248	High permeability and salt rejection reverse osmosis by a zeolite nano-membrane. Physical Chemistry Chemical Physics, 2013, 15, 6817.	1.3	88
249	Electrical-Driven Transport of Endohedral Fullerene Encapsulating a Single Water Molecule. Physical Review Letters, 2013, 110, 156103.	2.9	30
250	Incineration of municipal solid waste in Malaysia: Salient issues, policies and waste-to-energy initiatives. Renewable and Sustainable Energy Reviews, 2013, 24, 181-186.	8.2	95
251	Investigation into the loosening mechanism of bolt in curvic coupling subjected to transverse loading. Engineering Failure Analysis, 2013, 32, 360-373.	1.8	45
252	Mechanical Self-Assembly on Curved Substrates. , 2013, , 171-199.		0

#	Article	IF	Citations
253	A novel PdAg/TiO2 nanotube electrocatalyst for methanol electro-oxidation. Fuel, 2013, 108, 850-854.	3.4	13
254	Fast Ion Transport and Phase Separation in a Mechanically Driven Flow of Electrolytes through Tortuous Subâ€Nanometer Nanochannels. ChemPhysChem, 2013, 14, 2413-2418.	1.0	6
255	Increased cement paste permeability via novel controlled fatigue technique., 2013,,.		0
256	Mechanism of Water Infiltration and Defiltration through ZSM-5 Zeolite: Heating and Sodium Chloride Concentration Effect. Journal of Nanomaterials, 2013, 2013, 1-7.	1.5	10
257	Buckling patterns of conical thin film/substrate systems. Journal Physics D: Applied Physics, 2013, 46, 155306.	1.3	5
258	Buckling morphology of an elastic beam between two parallel lateral constraints: implication for a snake crawling between walls. Journal of the Royal Society Interface, 2013, 10, 20130399.	1.5	21
259	Effects of ion concentration on thermally-chargeable double-layer supercapacitors. Nanotechnology, 2013, 24, 465401.	1.3	29
260	Experimental Study on Energy Dissipation Characteristics of ZSMâ€5 Zeolite/Water System. Advanced Engineering Materials, 2013, 15, 740-746.	1.6	22
261	Nanostructural Mechanism of Toughness of Crab Carapace. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1436-1440.	0.4	1
262	Mechanical-to-Electric Energy Conversion by Mechanically Driven Flow of Electrolytes Confined in Nanochannels. Applied Physics Express, 2013, 6, 015202.	1.1	8
263	Mechanical Self-Assembly in Nature. , 2013, , 1-8.		1
264	A Super Energy Mitigation Nanostructure at High Impact Speed Based on Buckyball System. PLoS ONE, 2013, 8, e64697.	1.1	8
265	Indentation Hardness of Film/Substrate System: Discovery of the Unconventional Overshoot and Undershoot Behaviors. Journal of Solid Mechanics and Materials Engineering, 2012, 6, 814-831.	0.5	0
266	Harvesting energy from low-grade heat based on nanofluids. Nano Energy, 2012, 1, 805-811.	8.2	39
267	Analysis of wave propagation in micro/nanobeam-like structures: A size-dependent model. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 1659-1667.	1.5	9
268	Microstructural analysis of edge cracking in magnesium alloy sheet under rolling. Materials Science and Technology, 2012, 28, 415-419.	0.8	5
269	PULL-IN INSTABILITY OF CIRCULAR PLATE MEMS: A NEW MODEL BASED ON STRAIN GRADIENT ELASTICITY THEORY. International Journal of Applied Mechanics, 2012, 04, 1250003.	1.3	20
270	Temperature dependence of fluid transport in nanopores. Journal of Chemical Physics, 2012, 136, 184701.	1.2	27

#	Article	IF	CITATIONS
271	Thermal stress and strain distributions of a laboratory scale wall fired furnace: A numerical study and experimental verification. Engineering Failure Analysis, 2012, 25, 227-237.	1.8	6
272	Mechanical Energy Absorption Characteristics of Hollow and Water-Filled Carbon Nanotubes upon Low-Speed Crushing. Journal of Nanomechanics & Micromechanics, 2012, 2, 65-70.	1.4	5
273	Spontaneous wrinkling pattern of a constrained thin film membrane. Applied Physics A: Materials Science and Processing, 2012, 107, 761-767.	1.1	7
274	Modeling and simulation of curled dry leaves. Soft Matter, 2011, 7, 10794.	1.2	32
275	Buckling patterns of thin films on compliant substrates: the effect of plasticity. Journal Physics D: Applied Physics, 2011, 44, 045401.	1.3	26
276	Size-dependent pull-in instability of electrostatically actuated microbeam-based MEMS. Journal of Micromechanics and Microengineering, 2011, 21, 027001.	1.5	60
277	Microfluidic Channels Formed by Collapse of Soft Stamp. Journal of Nanomechanics & Micromechanics, 2011, 1, 3-10.	1.4	2
278	Effect of wall roughness on fluid transport resistance in nanopores. Journal of Chemical Physics, 2011, 135, 144703.	1.2	53
279	Effect of Electric Field on Liquid Infiltration into Hydrophobic Nanopores. Langmuir, 2011, 27, 6349-6357.	1.6	36
280	Effects of electric field on confined electrolyte in a hexagonal mesoporous silica. Journal of Chemical Physics, 2011, 134, 204706.	1.2	7
281	A conceptual thermal actuation system driven by interface tension of nanofluids. Energy and Environmental Science, 2011, 4, 3632.	15.6	34
282	Evaluation of critical strain for crack nucleation of magnesium di-boride superconductor using indentation method. Materials Chemistry and Physics, 2011, 125, 528-535.	2.0	5
283	On the anisotropic deformation of AZ31 Mg alloy under compression. Materials & Design, 2011, 32, 5004-5009.	5.1	34
284	Energy Dissipation of Nanoporous MFI Zeolite Under Dynamic Crushing. Journal of Computational and Theoretical Nanoscience, 2011, 8, 881-886.	0.4	6
285	Dynamic modeling and simulation of shell gasifier in IGCC. Fuel Processing Technology, 2011, 92, 1418-1425.	3.7	50
286	Automotive windshield â€" pedestrian head impact: Energy absorption capability of interlayer material. International Journal of Automotive Technology, 2011, 12, 687-695.	0.7	32
287	Pull-in instability analysis of electrostatically actuated microplate with rectangular shape. International Journal of Precision Engineering and Manufacturing, 2011, 12, 1085-1094.	1.1	27
288	Experimental and macroscopic investigation of dynamic crack patterns in PVB laminated glass sheets subject to light-weight impact. Engineering Failure Analysis, 2011, 18, 1605-1612.	1.8	43

#	Article	IF	CITATIONS
289	A size-dependent Kirchhoff micro-plate model based on strain gradient elasticity theory. European Journal of Mechanics, A/Solids, 2011, 30, 517-524.	2.1	175
290	The role of mechanical stress on the formation of a curly pattern of human hair. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 212-221.	1.5	16
291	Model updating of lattice structures: A substructure energy approach. Mechanical Systems and Signal Processing, 2011, 25, 1469-1484.	4.4	13
292	An electroactuation system based on nanofluids. Applied Physics Letters, 2011, 98, 221909.	1.5	24
293	Nanofluidic behavior on potassium chloride solution in zeolite Y. Materials Research Society Symposia Proceedings, 2011, 1346, 1.	0.1	0
294	Flow Transition Behavior of the Wetting Flow Between the Film Flow and Rivulet Flow on an Inclined Wall. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	0.8	34
295	Gas-Liquid Two-Phase Flow Simulation of Wetted Wall Flows in Packed Columns. , 2010, , .		0
296	Computational Modeling of Indentation. , 2010, , 153-183.		1
297	Confined Liquid Flow in Nanotube: A Numerical Study and Implications for Energy Absorption. Journal of Computational and Theoretical Nanoscience, 2010, 7, 379-387.	0.4	9
298	Effect of surface/interface stress on the plastic deformation of nanoporous materials and nanocomposites. International Journal of Plasticity, 2010, 26, 957-975.	4.1	95
299	Combination of Eigenfactor TM and h-index to evaluate scientific journals. Scientometrics, 2010, 84, 639-648.	1.6	15
300	Effect of particle size in a limestone–hydrochloric acid reaction system. Journal of Hazardous Materials, 2010, 179, 400-408.	6.5	24
301	An experimental methodology for characterizing fracture of hard thin films under cyclic contact loading. Thin Solid Films, 2010, 518, 2082-2089.	0.8	19
302	Mechanical modeling of a wrinkled fingertip immersed in water. Acta Biomaterialia, 2010, 6, 1487-1496.	4.1	40
303	Mass transfer characteristics in double-contact-flow absorber with liquid column/screen flow type: Modeling and experiment. Chemical Engineering Science, 2010, 65, 2619-2628.	1.9	8
304	Measuring mechanical properties of micro- and nano-fibers embedded in an elastic substrate: Theoretical framework and experiment. Composites Part B: Engineering, 2010, 41, 33-41.	5.9	25
305	Elastic buckling of gradient thin films on compliant substrates. Philosophical Magazine Letters, 2010, 90, 423-433.	0.5	30
306	Nanopore fabrication in amorphous Si: Viscous flow model and comparison to experiment. Journal of Applied Physics, 2010, 108, 14310.	1,1	17

#	Article	IF	CITATIONS
307	Determining engineering stress–strain curve directly from the load–depth curve of spherical indentation test. Journal of Materials Research, 2010, 25, 2297-2307.	1.2	51
308	Buckling of anisotropic films on cylindrical substrates: insights for self-assembly fabrication of 3D helical gears. Journal Physics D: Applied Physics, 2010, 43, 115402.	1.3	22
309	Electrolyte solution transport in electropolar nanotubes. Journal of Physics Condensed Matter, 2010, 22, 315301.	0.7	20
310	An indentation fatigue strength law. Philosophical Magazine Letters, 2010, 90, 313-322.	0.5	17
311	Numerical Simulation of Gas-Liquid Two-Phase Flows on Wetted Walls. , 2010, , .		O
312	Characterization of strain rate sensitivity and activation volume using the indentation relaxation test. Journal Physics D: Applied Physics, 2010, 43, 245401.	1.3	24
313	Effects of anion size and concentration on electrolyte invasion into molecular-sized nanopores. New Journal of Physics, 2010, 12, 033021.	1.2	8
314	Buckling patterns of thin films on curved compliant substrates with applications to morphogenesis and three-dimensional micro-fabrication. Soft Matter, 2010, 6, 5667.	1.2	172
315	Effect of surface roughness on thermal conductivity of silicon nanowires. Journal of Applied Physics, 2010, 107, .	1.1	80
316	Experimental Study on the Heat Flux Distribution of a Laboratory-Scale Wall-Fired Furnace. Energy & Experimental Study on the Heat Flux Distribution of a Laboratory-Scale Wall-Fired Furnace. Energy & Experimental Study on the Heat Flux Distribution of a Laboratory-Scale Wall-Fired Furnace. Energy & Experimental Study on the Heat Flux Distribution of a Laboratory-Scale Wall-Fired Furnace. Energy & Experimental Study on the Heat Flux Distribution of a Laboratory-Scale Wall-Fired Furnace.	2.5	3
317	Characteristics of windshield cracking upon low-speed impact: Numerical simulation based on the extended finite element method. Computational Materials Science, 2010, 48, 582-588.	1.4	84
318	Evaluation of elastoplastic properties and fracture strength of thick diamond like carbon film by indentation. Diamond and Related Materials, 2010, 19, 40-49.	1.8	11
319	Computational Molecular Biomechanics: A Hierarchical Multiscale Framework With Applications to Gating of Mechanosensitive Channels of Large Conductance. Challenges and Advances in Computational Chemistry and Physics, 2010, , 535-556.	0.6	1
320	Can indentation technique measure unique elastoplastic properties?. Journal of Materials Research, 2009, 24, 784-800.	1.2	52
321	Infiltration of Electrolytes in Molecular-Sized Nanopores. Physical Review Letters, 2009, 102, 184501.	2.9	82
322	MACRO- AND MICROSCOPIC APPROACHES TO PLANE STRAIN DEFORMATION STATES OF FACE-CENTERED CUBIC METALS UNDER WEDGE INDENTATION. International Journal of Applied Mechanics, 2009, 01, 41-60.	1.3	1
323	Flow Field of Water Drops in a Blade Channel: Numerical Simulation of Water Drop Erosion on Turbine Blades. International Journal of Turbo and Jet Engines, 2009, 26, .	0.3	1
324	Spherical Indentation on an Elastic Coating/Substrate System: Determining Substrate Modulus. Journal of Engineering Mechanics - ASCE, 2009, 135, 1189-1197.	1.6	5

#	Article	IF	Citations
325	Numerical investigation of indentation fatigue on polycrystalline copper. Journal of Materials Research, 2009, 24, 1007-1015.	1.2	11
326	Analysis of damage during bending creep tests. Philosophical Magazine Letters, 2009, 89, 335-347.	0.5	1
327	An indentation fatigue depth propagation law. Scripta Materialia, 2009, 60, 854-857.	2.6	24
328	A dimensionless factor characterizing the ignition of pulverized coal flow: Analytical model, experimental verification, and application. International Journal of Energy Research, 2009, 33, 235-254.	2,2	6
329	Young's modulus measurements of SiC coatings on spherical particles by using nanoindentation. Journal of Nuclear Materials, 2009, 393, 22-29.	1.3	30
330	Analysis of water drop erosion on turbine blades based on a nonlinear liquid–solid impact model. International Journal of Impact Engineering, 2009, 36, 1156-1171.	2.4	50
331	Numerical Simulation of Nanoindentation and Patch Clamp Experiments on Mechanosensitive Channels of Large Conductance in Escherichia coli. Experimental Mechanics, 2009, 49, 35-46.	1.1	11
332	Effect of inner gas pressure on the elastoplastic behavior of porous materials: A second-order moment micromechanics model. International Journal of Plasticity, 2009, 25, 1231-1252.	4.1	25
333	Indentation induced lateral crack in ceramics with surface hardening. Materials Science & Description of the Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 507, 226-235.	2.6	25
334	Numerical simulation of binary collisions using a modified surface tension model with particle method. Nuclear Engineering and Design, 2009, 239, 619-627.	0.8	12
335	Crack propagation toward a desired path by controlling the force direction. Engineering Fracture Mechanics, 2009, 76, 2554-2559.	2.0	10
336	A simple framework of spherical indentation for measuring elastoplastic properties. Mechanics of Materials, 2009, 41, 1025-1033.	1.7	64
337	Anisotropic buckling patterns in spheroidal film/substrate systems and their implications in some natural and biological systems. Journal of the Mechanics and Physics of Solids, 2009, 57, 1470-1484.	2.3	103
338	A numerical study of stir mixing of liquids with particle method. Chemical Engineering Science, 2009, 64, 341-350.	1.9	35
339	Thermally Responsive Fluid Behaviors in Hydrophobic Nanopores. Langmuir, 2009, 25, 11862-11868.	1.6	29
340	Eletrowetting Effect in a Nanoporous Silica. Langmuir, 2009, 25, 9463-9466.	1.6	15
341	Nanofluidic Transport in Branching Nanochannels: A Molecular Sieve Based on Y-Junction Nanotubes. Journal of Physical Chemistry B, 2009, 113, 6468-6472.	1.2	16
342	On stresses induced in a thermal barrier coating due to indentation testing. Computational Materials Science, 2009, 44, 1178-1191.	1.4	14

#	Article	IF	CITATIONS
343	Indentation creep surface morphology of nickel-based single crystal superalloys. Computational Materials Science, 2009, 46, 275-285.	1.4	15
344	A Computational Framework for Mechanical Response of Macromolecules: Application to the Salt Concentration Dependence of DNA Bendability. Biophysical Journal, 2009, 96, 3543-3554.	0.2	15
345	Effects of anion concentration on ion-transport pressure in nanopores. Applied Physics Letters, 2009, 94, 013105.	1.5	9
346	Field-responsive ion transport in nanopores. Applied Physics Letters, 2009, 94, 023106.	1.5	15
347	Experimental Study on Energy Dissipation of Electrolytes in Nanopores. Langmuir, 2009, 25, 12687-12696.	1.6	37
348	Mechanisms of water infiltration into conical hydrophobic nanopores. Physical Chemistry Chemical Physics, 2009, 11, 6520.	1.3	43
349	Thermal effect on the dynamic infiltration of water into single-walled carbon nanotubes. Physical Review E, 2009, 80, 061206.	0.8	27
350	Pressurized Liquid in Nanopores: A Modified Laplace-Young Equation. Nano Letters, 2009, 9, 984-988.	4.5	96
351	Mechanical self-assembly fabrication of gears. Soft Matter, 2009, 5, 3469.	1.2	40
352	Mechanism study of deformation and mass transfer for binary droplet collisions with particle method. Physics of Fluids, 2009, 21, .	1.6	39
353	Analysis on spiral crack in thick diamond-like carbon film subjected to spherical contact loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 496, 67-76.	2.6	22
354	Mechanosensitive Channels: Insights from Continuum-Based Simulations. Cell Biochemistry and Biophysics, 2008, 52, 1-18.	0.9	14
355	Measuring elastic property of single-walled carbon nanotubes by nanoindentation: A theoretical framework. Mechanics Research Communications, 2008, 35, 256-267.	1.0	6
356	Controlled crack arrest in brittle thin films: The effect of embedded voids. Acta Materialia, 2008, 56, 6214-6223.	3.8	8
357	Size dependence and orientation dependence of elastic properties of ZnO nanofilms. International Journal of Solids and Structures, 2008, 45, 1730-1753.	1.3	31
358	Reprint of "Size dependence and orientation dependence of elastic properties of ZnO nanofilms―[In. J. Solids Struct. 45 (2008) 1730–1753]. International Journal of Solids and Structures, 2008, 45, 3821-3844.	1.3	7
359	Determining mechanical properties of thin films from the loading curve of nanoindentation testing. Thin Solid Films, 2008, 516, 7571-7580.	0.8	37
360	Liquid drop impact on solid surface with application to water drop erosion on turbine blades, Part I: Nonlinear wave model and solution of one-dimensional impact. International Journal of Mechanical Sciences, 2008, 50, 1526-1542.	3.6	47

#	Article	IF	CITATIONS
361	Liquid drop impact on solid surface with application to water drop erosion on turbine blades, Part II: Axisymmetric solution and erosion analysis. International Journal of Mechanical Sciences, 2008, 50, 1543-1558.	3.6	44
362	Effect of surface stress on the asymmetric yield strength of nanowires. Journal of Applied Physics, 2008, 103, 123527.	1.1	61
363	Correlation between the flow stress and the nominal indentation hardness of soft metals. Scripta Materialia, 2008, 59, 518-521.	2.6	25
364	Gating Mechanisms of Mechanosensitive Channels of Large Conductance, I: A Continuum Mechanics-Based Hierarchical Framework. Biophysical Journal, 2008, 95, 563-580.	0.2	44
365	Gating Mechanisms of Mechanosensitive Channels of Large Conductance, II: Systematic Study of Conformational Transitions. Biophysical Journal, 2008, 95, 581-596.	0.2	26
366	Nanomechanics Modeling and Simulation of Carbon Nanotubes. Journal of Engineering Mechanics - ASCE, 2008, 134, 211-216.	1.6	25
367	Nanoscale Fluid Transport: Size and Rate Effects. Nano Letters, 2008, 8, 2988-2992.	4.5	225
368	Influence of anions on liquid infiltration and defiltration in a zeolite Y. Physical Review E, 2008, 78, 031408.	0.8	46
369	Effective viscosity of glycerin in a nanoporous silica gel. Journal of Applied Physics, 2008, 104, .	1.1	40
370	Pressure-driven water infiltration into carbon nanotube: The effect of applied charges. Applied Physics Letters, 2008, 92, 101927.	1.5	51
371	Effects of the Addition of Electrolyte on Liquid Infiltration in a Hydrophobic Nanoporous Silica Gel. Langmuir, 2008, 24, 7044-7047.	1.6	22
372	On radial crack and half-penny crack induced by Vickers indentation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 2967-2984.	1.0	33
373	Stress-driven buckling patterns in spheroidal core/shell structures. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19132-19135.	3.3	207
374	Mechanisms of Nanoindentation on Multiwalled Carbon Nanotube and Nanotube Cluster. Journal of Nanomaterials, 2008, 2008, 1-12.	1.5	14
375	Water infiltration behaviours in carbon nanotubes under quasi-static and dynamic loading conditions. Molecular Simulation, 2008, 34, 1267-1274.	0.9	37
376	Infiltration behaviour of water in a carbon nanotube under external pressure. Philosophical Magazine Letters, 2008, 88, 371-378.	0.5	29
377	Comments on "Extracting the plastic properties of metal materials from microindentation tests: Experimental comparison of recently published methods―by B. Guelorget, et al. [J. Mater. Res. 22, 1512 (2007)]: The correct methods of analyzing experimental data and reverse analysis of indentation tests. Iournal of Materials Research, 2008, 23, 598-608.	1.2	10
378	High-frequency vibration of a conformal antenna structure. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2008, 222, 569-574.	0.7	5

#	Article	IF	CITATIONS
379	Self-Assembled Triangular and Labyrinth Buckling Patterns of Thin Films on Spherical Substrates. Physical Review Letters, 2008, 100, 036102.	2.9	98
380	Analysis of Microindentation Unloading Curves based on Representative Strain Approach with Closed-Form Applications. Journal of Solid Mechanics and Materials Engineering, 2008, 2, 604-615.	0.5	0
381	Water Drop Erosion on Turbine Blades: Numerical Framework and Applications. Materials Transactions, 2008, 49, 1606-1615.	0.4	15
382	Numerical and experimental studies of deep indentation on single crystals. Journal of Mechanics of Materials and Structures, 2008, 3, 1429-1445.	0.4	5
383	Science and Prospects of Using Nanoporous Materials for Energy Absorption. Materials Research Society Symposia Proceedings, 2007, 1041, 1.	0.1	2
384	Axisymmetric Deformation of a Pressurized Thin Elastic Membrane with Nonuniform Thickness. Journal of Engineering Mechanics - ASCE, 2007, 133, 1146-1150.	1.6	2
385	The size effect of nanoindentation on ZnO nanofilms. Journal of Applied Physics, 2007, 102, 123513.	1.1	7
386	Energy analysis of size-dependent elastic properties of ZnO nanofilms using atomistic simulations. Physical Review B, 2007, 76, .	1.1	45
387	Comments on "Further investigation on the definition of the representative strain in conical indentation―by Y. Cao and N. Huber [J. Mater. Res. 21, 1810 (2006)]: A systematic study on applying the representative strains to extract plastic properties through one conical indentation test. Journal of Materials Research. 2007. 22. 858-868.	1.2	12
388	Measuring Material Plastic Properties with Optimized Representative Strain-Based Indentation Technique. Journal of Solid Mechanics and Materials Engineering, 2007, 1, 895-906.	0.5	9
389	Effects of Gas Molecules on Nanofluidic Behaviors. Journal of the American Chemical Society, 2007, 129, 2355-2359.	6.6	118
390	Plastic deformation in nanoscale gold single crystals and open-celled nanoporous gold. Modelling and Simulation in Materials Science and Engineering, 2007, 15, S181-S192.	0.8	34
391	Determining Equi-Biaxial Residual Stress and Mechanical Properties From the Force-Displacement Curves of Conical Microindentation. Journal of Engineering Materials and Technology, Transactions of the ASME, 2007, 129, 200-206.	0.8	11
392	Determining plastic properties of a material with residual stress by using conical indentation. International Journal of Solids and Structures, 2007, 44, 3720-3737.	1.3	66
393	The effects of chirality and boundary conditions on the mechanical properties of single-walled carbon nanotubes. International Journal of Solids and Structures, 2007, 44, 5447-5465.	1.3	48
394	Measuring elastoplastic properties of thin films on an elastic substrate using sharp indentation. Acta Materialia, 2007, 55, 6260-6274.	3.8	86
395	On internal cone cracks induced by conical indentation in brittle materials. Engineering Fracture Mechanics, 2007, 74, 2535-2546.	2.0	16
396	Influence of ultrasonic irradiation on the microstructure of Cu/Al2O3, CeO2 nanocomposite thin films during electrocodeposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 447, 209-216.	2.6	40

#	Article	IF	CITATIONS
397	The mean free path of dislocations in nanoparticle and nanorod reinforced metal composites and implication for strengthening mechanisms. Mechanics Research Communications, 2007, 34, 275-282.	1.0	17
398	High strain gradient plasticity associated with wedge indentation into face-centered cubic single crystals: Geometrically necessary dislocation densities. Journal of the Mechanics and Physics of Solids, 2007, 55, 1554-1573.	2.3	112
399	On the uniqueness of measuring elastoplastic properties from indentation: The indistinguishable mystical materials. Journal of the Mechanics and Physics of Solids, 2007, 55, 1618-1660.	2.3	237
400	Microfabrication and mechanical properties of nanoporous gold at the nanoscale. Scripta Materialia, 2007, 56, 437-440.	2.6	123
401	Plane-strain bulge test for nanocrystalline copper thin films. Scripta Materialia, 2007, 57, 541-544.	2.6	31
402	Deformation and fracture behavior of electrocodeposited alumina nanoparticle/copper composite films. Journal of Materials Science, 2007, 42, 5256-5263.	1.7	11
403	Atomistic Studies of Mechanical Properties of Carbon Nanotubes. Journal of Computational and Theoretical Nanoscience, 2007, 4, 823-839.	0.4	6
404	Cylindrical indentation induced deformation in face-centered cubic metal single crystals. Journal of Mechanics of Materials and Structures, 2007, 2, 557-572.	0.4	2
405	Buckling of single-walled carbon nanotubes upon bending: Molecular dynamics simulations and finite element method. Physical Review B, 2006, 73, .	1.1	142
406	A Finite Element Framework for Studying the Mechanical Response of Macromolecules: Application to the Gating of the Mechanosensitive Channel MscL. Biophysical Journal, 2006, 91, 1248-1263.	0.2	73
407	Three-dimensional morphology evolution of SiO2 patterned films under MeV ion irradiation. Journal of Applied Physics, 2006, 100, 023535.	1.1	22
408	Novel technique for measuring the mechanical properties of porous materials by nanoindentation. Journal of Materials Research, 2006, 21, 715-724.	1.2	109
409	A structural mechanics study of single-walled carbon nanotubes generalized from atomistic simulation. Nanotechnology, 2006, 17, 1004-1015.	1.3	83
410	Limit analysis-based approach to determine the material plastic properties with conical indentation. Journal of Materials Research, 2006, 21, 947-957.	1.2	54
411	A new approach to measure the elastic–plastic properties of bulk materials using spherical indentation. Acta Materialia, 2006, 54, 23-32.	3.8	157
412	Determination of uniaxial residual stress and mechanical properties by instrumented indentation. Acta Materialia, 2006, 54, 2823-2832.	3.8	83
413	On the determination of residual stress and mechanical properties by indentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 416, 139-149.	2.6	171
414	Thermal vibration and apparent thermal contraction of single-walled carbon nanotubes. Journal of the Mechanics and Physics of Solids, 2006, 54, 1206-1236.	2.3	81

#	Article	IF	CITATIONS
415	New stress intensity factor solutions of a periodic array of cracks in residual stress field. Mechanics Research Communications, 2006, 33, 425-432.	1.0	2
416	Calcium–magnesium–alumina–silicate (CMAS) delamination mechanisms in EB-PVD thermal barrier coatings. Surface and Coatings Technology, 2006, 200, 3418-3427.	2.2	104
417	Measuring the plastic properties of bulk materials by single indentation test. Scripta Materialia, 2006, 54, 65-70.	2.6	106
418	Critical Penetration Depth for Nano/Micro Indentation Test to Determine Elastic-Plastic Film Properties Deposited on Hard Substrates., 2006,, 931.		0
419	The effect of the displacement increment on the axial compressive buckling behaviours of single-walled carbon nanotubes. Nanotechnology, 2006, 17, 3844-3855.	1.3	37
420	New sharp indentation method of measuring the elastic–plastic properties of compliant and soft materials using the substrate effect. Journal of Materials Research, 2006, 21, 3134-3151.	1.2	26
421	Numerical analysis of the radial breathing mode of armchair and zigzag single-walled carbon nanotubes under deformation. Journal of Applied Physics, 2006, 100, 124305.	1.1	9
422	Energy absorption performance of steel tubes enhanced by a nanoporous material functionalized liquid. Applied Physics Letters, 2006, 89, 241918.	1.5	76
423	Observation of plastic deformation in freestanding single crystal Au nanowires. Applied Physics Letters, 2006, 89, 111916.	1.5	5
424	Buckling behavior of single-walled carbon nanotubes and a targeted molecular mechanics approach. Physical Review B, 2006, 74, .	1.1	28
425	Mechanical properties of porous and fully dense low- \hat{l}^{e} dielectric thin films measured by means of nanoindentation and the plane-strain bulge test technique. Journal of Materials Research, 2006, 21, 386-395.	1.2	49
426	Mechanisms of nanoindentation on single-walled carbon nanotubes: The effect of nanotube length. Journal of Materials Research, 2006, 21, 1048-1070.	1.2	33
427	Foreign object damage on the leading edge of a thin blade. Mechanics of Materials, 2005, 37, 447-457.	1.7	56
428	The Mechanics of Indentation Induced Lateral Cracking. Journal of the American Ceramic Society, 2005, 88, 1233-1238.	1.9	78
429	Plane-strain Bulge Test for Thin Films. Journal of Materials Research, 2005, 20, 2360-2370.	1.2	189
430	Structure and Properties of Electrocodeposited Cu-Al2O3 Nanocomposite Thin Films. Journal of Engineering Materials and Technology, Transactions of the ASME, 2005, 127, 451-456.	0.8	25
431	Representative Strain of Indentation Analysis. Journal of Materials Research, 2005, 20, 2225-2234.	1.2	139
432	Elastic Properties of Carbon Nanotubes in the Radial Direction. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2005, 219, 73-88.	0.1	6

#	Article	IF	Citations
433	Self-assembled Shells Composed of Colloidal Particles:Â Fabrication and Characterization. Langmuir, 2005, 21, 2963-2970.	1.6	145
434	Apparent thermal contraction of single-walled carbon nanotubes. Physical Review B, 2005, 72, .	1.1	19
435	Strain sensing of carbon nanotubes: Numerical analysis of the vibrational frequency of deformed single-wall carbon nanotubes. Physical Review B, 2005, 72, .	1.1	49
436	On The Mechanics of Indentation Induced Lateral Cracking. Materials Research Society Symposia Proceedings, 2004, 841, R11.11.1.	0.1	0
437	Self-Assembled Polymer Membrane Capsules Inflated by Osmotic Pressure. Journal of the American Chemical Society, 2004, 126, 14117-14122.	6.6	112
438	A family of herringbone patterns in thin films. Scripta Materialia, 2004, 50, 797-801.	2.6	123
439	Mechanisms governing the high temperature erosion of thermal barrier coatings. Wear, 2004, 256, 735-746.	1.5	112
440	Simulation of the high temperature impression of thermal barrier coatings with columnar microstructure. Acta Materialia, 2004, 52, 565-571.	3.8	59
441	Herringbone Buckling Patterns of Compressed Thin Films on Compliant Substrates. Journal of Applied Mechanics, Transactions ASME, 2004, 71, 597-603.	1.1	511
442	Mechanical relaxation of localized residual stresses associated with foreign object damage. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 349, 48-58.	2.6	55
443	Foreign object damage in a thermal barrier system: mechanisms and simulations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 352, 221-231.	2.6	90
444	On the propagation and coalescence of delamination cracks in compressed coatings: with application to thermal barrier systems. Acta Materialia, 2003, 51, 2017-2030.	3.8	64
445	Failure Mechanisms of Thermal Barrier Coatings at High Temperature. , 2003, , 159.		1
446	Particle impact on metal substrates with application to foreign object damage to aircraft engines. Journal of the Mechanics and Physics of Solids, 2002, 50, 2669-2690.	2.3	78
447	On the application of the Kitagawa–Takahashi diagram to foreign-object damage and high-cycle fatigue. Engineering Fracture Mechanics, 2002, 69, 1425-1446.	2.0	86
448	The Mechanical Properties of Electroplated Cu Thin Films Measured by means of the Bulge Test Technique. Materials Research Society Symposia Proceedings, 2001, 695, 1.	0.1	36
449	The residual stress state due to a spherical hard-body impact. Mechanics of Materials, 2001, 33, 441-454.	1.7	125
450	Foreign object damage and fatigue crack threshold: Cracking outside shallow indents. International Journal of Fracture, 2001, 107, 31-51.	1.1	34

XI CHEN

#	Article	IF	CITATIONS
451	Numerical study on the measurement of thin film mechanical properties by means of nanoindentation. Journal of Materials Research, 2001, 16, 2974-2982.	1.2	312
452	A mesoscopic model of the constitutive behaviour of monocrystalline ferroelectrics. Smart Materials and Structures, 1997, 6, 145-151.	1.8	13
453	Micromechanics simulation of ferroelectric polarization switching. Acta Materialia, 1997, 45, 3181-3189.	3.8	97