

# Junhua Zhao

## List of Publications by Year in descending order

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142  
papers

4,699  
citations

136885

32  
h-index

110317

64  
g-index

143  
all docs

143  
docs citations

143  
times ranked

5069  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unusual thermal properties of graphene origami crease: A molecular dynamics study. <i>Green Energy and Environment</i> , 2022, 7, 86-94.	4.7	18
2	Arbitrary-shape-adaptable strain sensor array with optimized circuit layout via direct-ink-writing: Scalable design and hierarchical printing. <i>Materials and Design</i> , 2022, 214, 110388.	3.3	13
3	Highly Regulatable Heat Conductance of Graphene-Sericin Hybrid for Responsive Textiles. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	21
4	Surface effect induced thickness-dependent stress intensity factors of nano-thickness cracked metal plates. <i>Engineering Fracture Mechanics</i> , 2022, 261, 108235.	2.0	2
5	Thermal conductivity of Aluminum/Graphene metal-matrix composites: From the thermal boundary conductance to thermal regulation. <i>Materials Today Communications</i> , 2022, 30, 103147.	0.9	13
6	Coarse-Grained Potentials of Poly(vinyl alcohol)/Graphene Oxide Interfaces. <i>Macromolecules</i> , 2022, 55, 1104-1119.	2.2	6
7	Revealing Density Thresholds of Carbon Nanotube Cross-Links for Load Transfer: A Graph Theory Strategy. <i>ACS Nano</i> , 2022, 16, 6929-6936.	7.3	2
8	Interlayer shear coupling in bilayer graphene. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	3.9	4
9	High-precision resistance strain sensors of multilayer composite structure via direct ink writing: Optimized layer flatness and interfacial strength. <i>Composites Science and Technology</i> , 2021, 201, 108530.	3.8	26
10	Huge stretchability and reversibility of helical graphenes using molecular dynamics simulations and simplified theoretical models. <i>Mechanics of Materials</i> , 2021, 153, 103683.	1.7	11
11	Fracture behavior dependent on crack-tip shapes in nanoscale crack-defect monolayer boron nitride sheets. <i>International Journal of Smart and Nano Materials</i> , 2021, 12, 36-48.	2.0	4
12	Unprecedented enhancement of wear resistance for epoxy-resin graphene composites. <i>Nanoscale</i> , 2021, 13, 2855-2867.	2.8	34
13	A heat and force locating sensor with nanoscale precision: a knitted graphene sheet. <i>Nanoscale</i> , 2021, 13, 5826-5833.	2.8	12
14	Stabilities and catapults of truncated carbon nanocones. <i>Nanotechnology</i> , 2021, 32, 185705.	1.3	2
15	An analogous ellipse equation for describing the coupling relationship of friction and adhesion between a probe tip and graphene. <i>Mechanics of Materials</i> , 2021, 156, 103791.	1.7	1
16	An anti-shrinkage model of an ultraviolet-curing coating filled with hollow polyurethane acrylate microspheres. <i>Mechanics of Materials</i> , 2021, 163, 104091.	1.7	2
17	Recent progress in the development of thermal interface materials: a review. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 753-776.	1.3	44
18	Strain-rate-dependent constitutive and damage models for a low-yielding-strength steel under dynamic loadings. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 4405-4417.	0.7	0

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19	Nonlinear vibrations of helical graphene resonators in the dynamic nano-indentation testing. Nanotechnology, 2020, 31, 025709.	1.3	5
20	Bubble–bubble interaction effects on multiple bubbles dynamics in an ultrasonic cavitation field. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 1051-1060.	1.0	3
21	Numerical study of thermal conductivity based on phosphorene anisotropy: Including [110] direction and related phosphorus nanotubes. Materials Today Communications, 2020, 22, 100814.	0.9	2
22	Modulating mechanical anisotropy of two-dimensional materials by controlling their defects. Carbon, 2020, 158, 77-88.	5.4	13
23	Water flow inside various geometric nano-confinement channels. Physical Chemistry Chemical Physics, 2020, 22, 24633-24639.	1.3	6
24	Computational Study on Strain-Engineered Graphene Nanopores for Selective Gas Separation. ACS Applied Nano Materials, 2020, 3, 11474-11480.	2.4	6
25	Nanoconfined Water Dynamics in Multilayer Graphene Nanopores. Journal of Physical Chemistry C, 2020, 124, 17819-17828.	1.5	21
26	Tuning graphene thermal modulator by rotating. International Journal of Smart and Nano Materials, 2020, 11, 310-323.	2.0	3
27	Atomic structure causing an obvious difference in thermal conductance at the Pd–H <sub>2</sub> O interface: a molecular dynamics simulation. Nanoscale, 2020, 12, 17870-17879.	2.8	27
28	Strain-Rate Effect on the Stress and Strain Concentration in a Visco-Plastic Plate With An Elliptic Hole. International Journal of Steel Structures, 2020, 20, 1256-1267.	0.6	3
29	A theoretical study on three long-range interactions between two nanoparticles under the humid condition. Journal of Applied Physics, 2020, 128, 095107.	1.1	0
30	Effect of T-Shape Shoulder Fillet on the Plastic Deformation Properties of SS400 and LYS160 Steel. Materials, 2020, 13, 1528.	1.3	1
31	Accurate prediction of shear buckling capacity of low-yield-strength steel considering plastic deformations. Journal of Constructional Steel Research, 2020, 172, 106183.	1.7	1
32	Mechanical properties of CNT-reinforced Ni3Al composites: the role of chirality, temperature, and volume fraction. Journal of Physics Condensed Matter, 2020, 32, 205301.	0.7	5
33	Thermal Transport in Graphene Oxide Films: Theoretical Analysis and Molecular Dynamics Simulation. Nanomaterials, 2020, 10, 285.	1.9	12
34	Strain rate effects on dynamic tensile properties of open-hole composite laminates. Composites Communications, 2020, 19, 226-232.	3.3	13
35	Molecular Insights into the Abnormal Wetting Behavior of Ionic Liquids Induced by the Solidified Ionic Layer. Industrial & Engineering Chemistry Research, 2020, 59, 8028-8036.	1.8	14
36	Crease-induced targeted cutting and folding of graphene origami. Carbon, 2020, 165, 259-266.	5.4	11

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37	Wrinkling behavior of graphene on substrates with different surface morphologies. <i>Mechanics of Materials</i> , 2019, 137, 103144.	1.7	18
38	Shear properties of the liquid bridge between two graphene films using a refined molecular kinetics theory and molecular dynamics simulations. <i>Mechanics of Materials</i> , 2019, 137, 103124.	1.7	4
39	Finite element analysis and molecular dynamics simulations of nanoscale crack-hole interactions in chiral graphene nanoribbons. <i>Engineering Fracture Mechanics</i> , 2019, 218, 106571.	2.0	15
40	Failure mode transformation of ZnO nanowires under uniaxial compression: from phase transition to buckling. <i>Nanotechnology</i> , 2019, 30, 375702.	1.3	1
41	Study on the impact resistance of honeycomb sandwich structures under low-velocity/heavy mass. <i>Composite Structures</i> , 2019, 226, 111223.	3.1	51
42	Thermal rectification of graphene on substrates with inhomogeneous stiffness. <i>Carbon</i> , 2019, 154, 81-89.	5.4	19
43	Thermo-breathing vibration of carbon nanoscrolls. <i>Journal of Applied Physics</i> , 2019, 126, 014301.	1.1	2
44	Improvements of mechanical properties of multilayer open-hole graphene papers. <i>Journal of Applied Physics</i> , 2019, 126, 104301.	1.1	7
45	Flexural Wave Propagation in Mass Chain-Filled Carbon Nanotubes. <i>Materials</i> , 2019, 12, 2986.	1.3	2
46	High-sensitive and stretchable resistive strain gauges: Parametric design and DIW fabrication. <i>Composite Structures</i> , 2019, 223, 110955.	3.1	20
47	Thermal Conductivity of Defective Graphene Oxide: A Molecular Dynamic Study. <i>Molecules</i> , 2019, 24, 1103.	1.7	59
48	Fracture Toughnesses and Crack Growth Angles of Single-Layer Graphyne Sheets. <i>Acta Mechanica Sinica</i> , 2019, 32, 339-355.	1.0	6
49	Thermal Conductivity of Two Types of 2D Carbon Allotropes: a Molecular Dynamics Study. <i>Nanoscale Research Letters</i> , 2019, 14, 7.	3.1	10
50	Novel nonlinear coarse-grained potentials of carbon nanotubes. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 128, 79-104.	2.3	37
51	Influence of adhesion strength on cavitation erosion resistance of diamond-like carbon coating. <i>Industrial Lubrication and Tribology</i> , 2019, 71, 724-730.	0.6	4
52	Influence of thermostating on nonequilibrium molecular dynamics simulations of heat conduction in solids. <i>Journal of Chemical Physics</i> , 2019, 151, 234105.	1.2	126
53	A black phosphorus nanoconveyor belt system. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	4
54	High ductile fracture of a low-yield-strength steel with a part-through curve crack. <i>Acta Mechanica</i> , 2019, 230, 319-331.	1.1	3

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55	Strain engineering for thermal conductivity of diamond nanothread forests. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 085301.	1.3	9
56	Buckling behaviors of metal nanowires encapsulating carbon nanotubes by considering surface/interface effects from a refined beam model. <i>Carbon</i> , 2019, 141, 348-362.	5.4	19
57	Size- and edge-effect cohesive energy and shear strength between graphene, carbon nanotubes and nanofibers: Continuum modeling and molecular dynamics simulations. <i>Composite Structures</i> , 2019, 208, 150-167.	3.1	27
58	Efficient selection methods for black phosphorene nanoribbons. <i>Nanoscale</i> , 2018, 10, 4385-4390.	2.8	11
59	Local strain field engineering on interfacial thermal resistance of graphene nanoribbon. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	8
60	The interface strength and delamination of fiber-reinforced composites using a continuum modeling approach. <i>Composites Part B: Engineering</i> , 2018, 137, 225-234.	5.9	22
61	Elastic T-stress and III mixed mode stress intensity factors for a through-wall crack in an inner-pressured pipe. <i>International Journal of Pressure Vessels and Piping</i> , 2018, 159, 67-72.	1.2	10
62	Nonlinear vibrations of circular single-layer black phosphorus resonators. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	13
63	Interfacial thermal conductance of buckling carbon nanotubes. <i>AIP Advances</i> , 2018, 8, 065116.	0.6	1
64	Additive manufacturing of elastomeric foam with cell unit design for broadening compressive stress plateau. <i>Rapid Prototyping Journal</i> , 2018, 24, 1579-1585.	1.6	15
65	Fracture properties of nanoscale single-crystal silicon plates: Molecular dynamics simulations and finite element method. <i>Engineering Fracture Mechanics</i> , 2018, 202, 1-19.	2.0	11
66	Constitutive modeling of neo-Hookean materials with spherical voids in finite deformation. <i>Extreme Mechanics Letters</i> , 2018, 24, 47-57.	2.0	8
67	Buckling behaviors of single-walled carbon nanotubes inserted with a linear carbon-atom chain. <i>Nanotechnology</i> , 2018, 29, 335704.	1.3	11
68	Loading direction-dependent shear behavior at different temperatures of single-layer chiral graphene sheets. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2018, 34, 542-548.	1.5	7
69	Finite Element Simulations of Dynamic Fracture of Full-Scale Gas Transmission Pipelines. <i>Acta Mechanica Solida Sinica</i> , 2018, 31, 357-368.	1.0	2
70	A modified direct measurement of shear moduli of two-dimensional materials. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	2
71	Thermal conductivity of graphene nanoribbons under shear deformation: A molecular dynamics simulation. <i>Scientific Reports</i> , 2017, 7, 41398.	1.6	53
72	Interfacial thermal conductance in graphene/black phosphorus heterogeneous structures. <i>Carbon</i> , 2017, 117, 399-410.	5.4	85

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73	Buckling behaviour of composites with double walled nanotubes from carbon and phosphorus. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10922-10930.	1.3	14
74	Thermo-mechanical vibration of a single-layer graphene sheet and a single-walled carbon nanotube on a substrate. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	7
75	The peeling behavior of nanowires and carbon nanotubes from a substrate using continuum modeling. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	6
76	Nonlinear vibrations of carbon chain resonators tuned by temperature. <i>Materials Research Express</i> , 2017, 4, 105026.	0.8	2
77	A theoretical analysis of peeling behavior between nanowires and substrates in the ambient condition with high relative humidity. <i>Mechanics of Materials</i> , 2017, 114, 243-253.	1.7	8
78	Thermal conductivity of a h-BCN monolayer. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27326-27331.	1.3	44
79	The chirality-dependent fracture properties of single-layer graphene sheets: Molecular dynamics simulations and finite element method. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	8
80	Large stretchability and failure mechanism of graphene kirigami under tension. <i>Soft Matter</i> , 2017, 13, 8930-8939.	1.2	16
81	The Vibration of a Linear Carbon Chain in Carbon Nanotubes. <i>Materials</i> , 2017, 10, 478.	1.3	11
82	The Influence of Crosslink Density on the Failure Behavior in Amorphous Polymers by Molecular Dynamics Simulations. <i>Materials</i> , 2016, 9, 234.	1.3	49
83	The Lightweight Design of a Seismic Low-Yield-Strength Steel Shear Panel Damper. <i>Materials</i> , 2016, 9, 424.	1.3	22
84	Plastic Behavior of Metallic Damping Materials under Cyclical Shear Loading. <i>Materials</i> , 2016, 9, 496.	1.3	6
85	Superhigh moduli and tension-induced phase transition of monolayer gamma-boron at finite temperatures. <i>Scientific Reports</i> , 2016, 6, 23233.	1.6	5
86	The vibration of nanosprings affected by van der Waals interactions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160242.	1.0	3
87	Thermal stability of a free nanotube from single-layer black phosphorus. <i>Nanotechnology</i> , 2016, 27, 235703.	1.3	32
88	Thermal conductivity of graphene kirigami: Ultralow and strain robustness. <i>Carbon</i> , 2016, 104, 203-213.	5.4	69
89	Strength and stability analysis of a single-walled black phosphorus tube under axial compression. <i>Nanotechnology</i> , 2016, 27, 275701.	1.3	19
90	The Young's moduli of three types of carbon allotropes: a molecular mechanics model and a finite-element method. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20150628.	1.0	6

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91	3D flexible water channel: stretchability of nanoscale water bridge. <i>Nanoscale</i> , 2016, 8, 5676-5681.	2.8	23
92	Thermal conductivities of single- and multi-layer phosphorene: a molecular dynamics study. <i>Nanoscale</i> , 2016, 8, 483-491.	2.8	159
93	Study on the dynamics responses of a transmission system made from carbon nanotubes. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	21
94	A stable high-speed rotational transmission system based on nanotubes. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	38
95	Does Hooke's law work in helical nanosprings?. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20990-20997.	1.3	6
96	Binding energy and mechanical stability of two parallel and crossing carbon nanotubes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150229.	1.0	12
97	A nonlinear continuum model of van der Waals interactions in crystalline polymers. <i>Acta Mechanica</i> , 2015, 226, 3495-3499.	1.1	1
98	The interface strength and debonding for composite structures: Review and recent developments. <i>Composite Structures</i> , 2015, 129, 8-26.	3.1	32
99	Temperature-dependent mechanical properties of monolayer black phosphorus by molecular dynamics simulations. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	73
100	The tensile and shear failure behavior dependence on chain length and temperature in amorphous polymers. <i>Computational Materials Science</i> , 2015, 96, 567-572.	1.4	18
101	Continuum modeling of the cohesive energy for the interfaces between films, spheres, coats and substrates. <i>Computational Materials Science</i> , 2015, 96, 432-438.	1.4	20
102	A theoretical analysis of interface debonding for coated sphere with functionally graded interphase. <i>Composite Structures</i> , 2014, 117, 288-297.	3.1	20
103	Binding energy and mechanical stability of single- and multi-walled carbon nanotube serpentines. <i>Journal of Chemical Physics</i> , 2014, 140, 204704.	1.2	17
104	Understanding Water Permeation in Graphene Oxide Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5877-5883.	4.0	415
105	Wetting of Graphene Oxide: A Molecular Dynamics Study. <i>Langmuir</i> , 2014, 30, 3572-3578.	1.6	190
106	Breakdown of fast water transport in graphene oxides. <i>Physical Review E</i> , 2014, 89, 012113.	0.8	164
107	Stochastic predictions of bulk properties of amorphous polyethylene based on molecular dynamics simulations. <i>Mechanics of Materials</i> , 2014, 68, 70-84.	1.7	118
108	Coarse-grained potentials of single-walled carbon nanotubes. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 71, 197-218.	2.3	61

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109	Tension-induced phase transition of single-layer molybdenum disulphide (MoS <sub>2</sub> ) at low temperatures. <i>Nanotechnology</i> , 2014, 25, 295701.	1.3	42
110	Mechanotunable monatomic metal structures at graphene edges. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10295.	1.3	3
111	Ultrafast viscous water flow through nanostrand-channelled graphene oxide membranes. <i>Nature Communications</i> , 2013, 4, 2979.	5.8	673
112	Thermal conductivity of carbon nanocoils. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	28
113	Size-dependent mechanical behavior of nanoscale polymer particles through coarse-grained molecular dynamics simulation. <i>Nanoscale Research Letters</i> , 2013, 8, 541.	3.1	14
114	Defect-activated self-assembly of multilayered graphene paper: a mechanically robust architecture with high strength. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2002-2010.	5.2	12
115	A theoretical analysis of cohesive energy between carbon nanotubes, graphene and substrates. <i>Carbon</i> , 2013, 57, 108-119.	5.4	99
116	The mechanical properties of three types of carbon allotropes. <i>Nanotechnology</i> , 2013, 24, 095702.	1.3	79
117	An analytical solution on interface debonding for large diameter carbon nanotube-reinforced composite with functionally graded variation interphase. <i>Composite Structures</i> , 2013, 104, 261-269.	3.1	37
118	A comparative study of two molecular mechanics models based on harmonic potentials. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	23
119	Effects of the dispersion of polymer wrapped two neighbouring single walled carbon nanotubes (SWNTs) on nanoengineering load transfer. <i>Composites Part B: Engineering</i> , 2013, 45, 1714-1721.	5.9	43
120	Size-sensitive Young's modulus of kinked silicon nanowires. <i>Nanotechnology</i> , 2013, 24, 185702.	1.3	6
121	Challenges of the Modeling Methods for Investigating the Interaction between the CNT and the Surrounding Polymer. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-10.	1.0	27
122	Temperature-dependent mechanical properties of single-layer molybdenum disulphide: Molecular dynamics nanoindentation simulations. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	37
123	Thermal conductivity dependence on chain length in amorphous polymers. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	42
124	Quasi-analytical solution for the stable system of the multi-layer folded graphene wrinkles. <i>Journal of Applied Physics</i> , 2013, 114, 063511.	1.1	14
125	Superior thermal conductivity and extremely high mechanical strength in polyethylene chains from ab initio calculation. <i>Journal of Applied Physics</i> , 2012, 111, 124304.	1.1	28
126	An analytical molecular mechanics model for the elastic properties of crystalline polyethylene. <i>Journal of Applied Physics</i> , 2012, 112, 033516.	1.1	10



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127	Knitted graphene-nanoribbon sheet: a mechanically robust structure. <i>Nanoscale</i> , 2012, 4, 785-791.	2.8	22
128	Three-parameter $K^*T^*T_z$ characterization of the crack-tip fields in compact-tension-shear specimens. <i>Engineering Fracture Mechanics</i> , 2012, 92, 72-88.	2.0	29
129	Loading and unloading of a spherical contact: From elastic to elastic-perfectly plastic materials. <i>International Journal of Mechanical Sciences</i> , 2012, 56, 70-76.	3.6	37
130	Strain engineering of thermal conductivity in graphene sheets and nanoribbons: a demonstration of magic flexibility. <i>Nanotechnology</i> , 2011, 22, 105705.	1.3	346
131	Size-dependent elastic properties of crystalline polymers via a molecular mechanics model. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	17
132	Coarse-Grained Molecular Dynamics Simulations on Size Effect of Glassy Polyethylene Particles. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7340-7342.	0.9	5
133	Thermomechanical properties dependence on chain length in bulk polyethylene: Coarse-grained molecular dynamics simulations. <i>Journal of Materials Research</i> , 2010, 25, 537-544.	1.2	33
134	Elasticity of Single-Crystal Calcite by First-Principles Calculations. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 1181-1188.	0.4	12
135	Three-parameter approach for elastic-plastic stress field of an embedded elliptical crack. <i>Engineering Fracture Mechanics</i> , 2009, 76, 2429-2444.	2.0	20
136	Three-dimensional stress fields near notches and cracks. <i>International Journal of Fracture</i> , 2008, 151, 151-160.	1.1	24
137	The influence of Poisson's ratio on thickness-dependent stress concentration at elliptic holes in elastic plates. <i>International Journal of Fatigue</i> , 2008, 30, 165-171.	2.8	43
138	Three-parameter approach for elastic-plastic fracture of the semi-elliptical surface crack under tension. <i>International Journal of Mechanical Sciences</i> , 2008, 50, 1168-1182.	3.6	34
139	The in-plane and out-of-plane stress constraint factors and $K^*T^*T_z$ description of stress field near the border of a semi-elliptical surface crack. <i>International Journal of Fatigue</i> , 2007, 29, 435-443.	2.8	44
140	The in-plane and out-of-plane stress constraint factors and $K-T-T_z$ description of stress fields near the border of a quarter-elliptical corner crack. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2007, 30, 673-681.	1.7	13
141	Three-parameter description of the stress field near the border of an embedded elliptical crack. <i>Acta Mechanica</i> , 2007, 190, 29-44.	1.1	8
142	Three dimensional $K-T_z$ stress fields around the embedded center elliptical crack front in elastic plates. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2006, 22, 148-155.	1.5	17