

# Zhen Chen

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

160  
papers

3,902  
citations

27  
h-index

58  
g-index

174  
ext. papers

4,428  
ext. citations

3.4  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
160	A particle method for history-dependent materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1994</b> , 118, 179-196	5.7	769
159	Penetration of lipid membranes by gold nanoparticles: insights into cellular uptake, cytotoxicity, and their relationship. <i>ACS Nano</i> , <b>2010</b> , 4, 5421-9	16.7	479
158	Biosorption of nickel and copper onto treated alga ( <i>Undaria pinnatifida</i> ): application of isotherm and kinetic models. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 155, 327-33	12.8	185
157	One-Dimensional Softening With Localization. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>1986</b> , 53, 791-797	2.7	156
156	Two- and Three-Dimensional Ordered Structures of Hollow Silver Spheres Prepared by Colloidal Crystal Templating. <i>Advanced Materials</i> , <b>2004</b> , 16, 417-422	24	129
155	An SPH model for multiphase flows with complex interfaces and large density differences. <i>Journal of Computational Physics</i> , <b>2015</b> , 283, 169-188	4.1	117
154	Generation of fast propagating combustion and shock waves with copper oxide/aluminum nanothermite composites. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 243109	3.4	106
153	The Sandia Fracture Challenge: blind round robin predictions of ductile tearing. <i>International Journal of Fracture</i> , <b>2014</b> , 186, 5-68	2.3	92
152	Material point method for dynamic analysis of saturated porous media under external contact/impact of solid bodies. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2009</b> , 198, 1456-1472	5.7	84
151	A simulation study on nanoscale holes generated by gold nanoparticles on negative lipid bilayers. <i>Langmuir</i> , <b>2011</b> , 27, 8323-32	4	72
150	Simulation Study of Aggregations of Monolayer-Protected Gold Nanoparticles in Solvents. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 18991-18998	3.8	53
149	Development of an implicit material point method for geotechnical applications. <i>Computers and Geotechnics</i> , <b>2016</b> , 71, 159-167	4.4	52
148	An evaluation of the MPM for simulating dynamic failure with damage diffusion. <i>Engineering Fracture Mechanics</i> , <b>2002</b> , 69, 1873-1890	4.2	52
147	Strengthening and toughening by interface-mediated slip transfer reaction in nanotwinned copper. <i>Scripta Materialia</i> , <b>2009</b> , 60, 508-511	5.6	50
146	Enhancement of the material point method using B-spline basis functions. <i>International Journal for Numerical Methods in Engineering</i> , <b>2018</b> , 113, 411-431	2.4	49
145	Transformation of shock compression pulses in glass due to the failure wave phenomena. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 5045-5052	2.5	46
144	Atomistic study of the mechanical response of copper nanowires under torsion. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 135408	3	45

143	Model-based simulation of the synergistic effects of blast and fragmentation on a concrete wall using the MPM. <i>International Journal of Impact Engineering</i> , <b>2006</b> , 32, 2066-2096	4	45
142	A multi-mesh MPM for simulating the meshing process of spur gears. <i>Computers and Structures</i> , <b>2003</b> , 81, 1991-2002	4.5	41
141	Anisotropy of nickel-based superalloy K418 fabricated by selective laser melting. <i>Progress in Natural Science: Materials International</i> , <b>2018</b> , 28, 496-504	3.6	40
140	A stable high-speed rotational transmission system based on nanotubes. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 021909	3.4	35
139	Molecular dynamics study of neck growth in laser sintering of hollow silver nanoparticles with different heating rates. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 335302	3	35
138	Simulation of Soil-Concrete Interfaces with Nonlocal Constitutive Models. <i>Journal of Engineering Mechanics - ASCE</i> , <b>1987</b> , 113, 1665-1677	2.4	34
137	Roles of grain boundary and dislocations at different deformation stages of nanocrystalline copper under tension. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2009</b> , 373, 570-574	2.3	32
136	The effect of calcium phosphate nanoparticles on hormone production and apoptosis in human granulosa cells. <i>Reproductive Biology and Endocrinology</i> , <b>2010</b> , 8, 32	5	32
135	An investigation of the combined size and rate effects on the mechanical responses of FCC metals. <i>International Journal of Solids and Structures</i> , <b>2007</b> , 44, 1180-1195	3.1	32
134	A numerical solution scheme for softening problems involving total strain control. <i>Computers and Structures</i> , <b>1990</b> , 37, 1043-1050	4.5	29
133	A multiphase smoothed particle hydrodynamics model with lower numerical diffusion. <i>Journal of Computational Physics</i> , <b>2019</b> , 382, 177-201	4.1	26
132	A computational model for impact failure with shear-induced dilatancy. <i>International Journal for Numerical Methods in Engineering</i> , <b>2003</b> , 56, 1979-1997	2.4	26
131	A Coupled MPM-FDM Analysis Method for Multi-Phase Elasto-Plastic Soils. <i>Soils and Foundations</i> , <b>2010</b> , 50, 515-532	2.9	24
130	Formation of two conjoint fivefold deformation twins in copper nanowires with molecular dynamics simulation. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 041913	3.4	24
129	An investigation of the effect of interfacial atomic potential on the stress transition in thin films. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2004</b> , 12, S347-S369	2	24
128	On nonlocal damage models for interface problems. <i>International Journal of Solids and Structures</i> , <b>1994</b> , 31, 1241-1261	3.1	24
127	A bifurcation-based decohesion model for simulating the transition from localization to decohesion with the MPM. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , <b>2005</b> , 56, 908-930	1.6	22
126	An Evaluation of the Material Point Method <b>2002</b> ,		22

125	Improved decohesion modeling with the material point method for simulating crack evolution. <i>International Journal of Fracture</i> , <b>2014</b> , 186, 177-184	2.3	21
124	Continuous and Discontinuous Failure Modes. <i>Journal of Engineering Mechanics - ASCE</i> , <b>1996</b> , 122, 80-82	2.4	21
123	The Material Point Method <b>2017</b> , 37-101		20
122	Monte Carlo simulation of grain growth in two-phase nanocrystalline materials. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 144103	3.4	20
121	A study of the failure wave phenomenon in glasses compressed at different levels. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 113523	2.5	20
120	Simulation of geomembrane response to settlement in landfills by using the material point method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>1999</b> , 23, 1977-1994		19
119	An equation of state for the detonation product of copper oxide/aluminum nanothermite composites. <i>Journal of Nanoparticle Research</i> , <b>2010</b> , 12, 719-726	2.3	18
118	Study of Tertiary Creep of Rock Salt. <i>Journal of Engineering Mechanics - ASCE</i> , <b>1997</b> , 123, 77-82	2.4	17
117	An investigation of grain size and nitrogen-doping effects on the mechanical properties of ultrananocrystalline diamond films. <i>International Journal of Solids and Structures</i> , <b>2007</b> , 44, 3379-3392	3.1	17
116	An analytical and numerical study of failure waves. <i>International Journal of Solids and Structures</i> , <b>1999</b> , 36, 3977-3991	3.1	17
115	Secant structural solution strategies under element constraint for incremental damage. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1991</b> , 90, 869-884	5.7	17
114	Multiscale simulation of the responses of discrete nanostructures to extreme loading conditions based on the material point method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2015</b> , 297, 219-238	5.7	16
113	A Numerical Study of the Size and Rate Effects on the Mechanical Response of Single Crystal Diamond and UNCD Films. <i>International Journal of Damage Mechanics</i> , <b>2006</b> , 15, 169-195	3	16
112	A multi-scale simulation of tungsten film delamination from silicon substrate. <i>International Journal of Solids and Structures</i> , <b>2005</b> , 42, 5036-5056	3.1	16
111	A partitioned-modeling approach with moving jump conditions for localization. <i>International Journal of Solids and Structures</i> , <b>1995</b> , 32, 1893-1905	3.1	16
110	Development of generalized interpolation material point method for simulating fully coupled thermomechanical failure evolution. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 332, 325-342	5.7	14
109	A particle-based multiscale simulation procedure within the material point method framework. <i>Computational Particle Mechanics</i> , <b>2014</b> , 1, 147-158	3	14
108	A Neural-Network Model-Based Engineering Tool for Blast Wall Protection of Structures. <i>International Journal of Protective Structures</i> , <b>2011</b> , 2, 159-176	1.5	14

107	Loading path effect on the mechanical behaviour and fivefold twinning of copper nanowires. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 335402	3	14
106	Microstructure and mechanical property of turtle shell. <i>Theoretical and Applied Mechanics Letters</i> , <b>2012</b> , 2, 014009	1.8	14
105	Numerical study of the impact response of woodpecker's head. <i>AIP Advances</i> , <b>2012</b> , 2, 042173	1.5	14
104	Generalized interpolation material point method for coupled thermo-mechanical processes. <i>International Journal of Mechanics and Materials in Design</i> , <b>2016</b> , 12, 577-595	2.5	13
103	Size effects on the impact response of copper nanobeams. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 113512	2.5	13
102	A study of the zona piercing process in piezodriven intracytoplasmic sperm injection. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 044702	2.5	13
101	Hierarchical multiscale simulations of crystalline hexahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX): Generalized interpolation material point method simulations of brittle fracture using an elastodamage model derived from molecular dynamics. <i>International Journal of Damage Mechanics</i> , <b>2017</b> , 26, 293-313	3	12
100	Time-discontinuous material point method for transient problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 328, 663-685	5.7	12
99	Numerical study of the mechanical response of turtle shell. <i>Journal of Bionic Engineering</i> , <b>2012</b> , 9, 330-335	3.7	12
98	Size and surface effects on the mechanical behavior of nanotubes in first gradient elasticity. <i>Composites Part B: Engineering</i> , <b>2012</b> , 43, 27-32	10	12
97	Deformation and Stability of Copper Nanowires under Bending. <i>International Journal for Multiscale Computational Engineering</i> , <b>2009</b> , 7, 205-215	2.4	12
96	Melt flow and heat transfer in laser drilling. <i>International Journal of Thermal Sciences</i> , <b>2016</b> , 107, 141-152	4.1	12
95	On constructing the analytical solutions for localizations in a slender cylinder composed of an incompressible hyperelastic material. <i>International Journal of Solids and Structures</i> , <b>2008</b> , 45, 2613-2628	3.1	11
94	Controllable deformation of salt water-filled carbon nanotubes using an electric field with application to molecular sieving. <i>Nanotechnology</i> , <b>2016</b> , 27, 315702	3.4	10
93	Formation of quasi-icosahedral structures with multi-conjoint fivefold deformation twins in fivefold twinned metallic nanowires. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 041909	3.4	10
92	A study of mechanical properties of pure and nitrogen-doped ultrananocrystalline diamond films under various loading conditions. <i>International Journal of Solids and Structures</i> , <b>2009</b> , 46, 811-823	3.1	10
91	Influence of dry density and confinement environment on the high strain rate response of partially saturated sand. <i>International Journal of Impact Engineering</i> , <b>2018</b> , 116, 65-78	4	9
90	Dynamic response of a carbon nanotube-based rotary nano device with different carbon-hydrogen bonding layout. <i>Applied Surface Science</i> , <b>2016</b> , 365, 352-356	6.7	9

89	Extensional vibration and size-dependent mechanical properties of single-crystal gold nanorods. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 164304	2.5	9
88	An adjustable permeation membrane up to the separation for multicomponent gas mixture. <i>Scientific Reports</i> , <b>2019</b> , 9, 7380	4.9	8
87	Computational study of the nanoscale mechanical properties of C-S-H composites under different temperatures. <i>Computational Materials Science</i> , <b>2018</b> , 146, 42-53	3.2	8
86	An analytical study of the instability of a superelastic shape memory alloy cylinder subject to practical boundary conditions. <i>Smart Materials and Structures</i> , <b>2009</b> , 18, 024007	3.4	8
85	A study of the loading path and crystal orientation effects on size-dependent limit strength. <i>Engineering Fracture Mechanics</i> , <b>2007</b> , 74, 1190-1202	4.2	8
84	Model-based simulation of normal grain growth in a two-phase nanostructured system. <i>Science and Technology of Advanced Materials</i> , <b>2006</b> , 7, 812-818	7.1	8
83	Formulation and computational aspects of plasticity and damage models with application to quasi-brittle materials		8
82	The effects of initial void and dislocation on the onset of plasticity in copper single crystals. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 165104	2.5	7
81	Water filling and electric field-induced enhancement in the mechanical property of carbon nanotubes. <i>Scientific Reports</i> , <b>2015</b> , 5, 17537	4.9	7
80	The effect of interface adhesion on buckling and cracking of hard thin films. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 161912	3.4	7
79	Size effects on the wave propagation and deformation pattern in copper nanobars under symmetric longitudinal impact loading. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 475305	3	7
78	A multiscale material point method for impact simulation. <i>Theoretical and Applied Mechanics Letters</i> , <b>2012</b> , 2, 051003	1.8	7
77	Rate-dependent transition from tensile damage to discrete fracture in dynamic brittle failure. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2001</b> , 35, 229-235	3.7	7
76	A semi-analytical solution procedure for predicting damage evolution at interfaces. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>1993</b> , 17, 807-819	4	7
75	IMPACT-INDUCED BENDING RESPONSE OF SINGLE CRYSTAL AND FIVE-FOLD TWINNED NANOWIRES. <i>International Journal for Multiscale Computational Engineering</i> , <b>2013</b> , 11, 1-16	2.4	7
74	A Partitioned-Solution Method with Moving Boundaries for Nonlocal Plasticity <b>1993</b> , 449-468		7
73	Ultrafast laser-excited vibration and elastic modulus of individual gold nanorods. <i>Optics Letters</i> , <b>2015</b> , 40, 340-3	3	6
72	Mesoscale study of particle sedimentation with inertia effect using dissipative particle dynamics. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 18, 1309-1315	2.8	6

71	A numerical study of the imperfection effect on ultrananocrystalline diamond properties under different loading paths and temperatures. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 2075-2080	8.6	6
70	A Study of the Failure Wave Phenomenon in Brittle Materials. <i>AIP Conference Proceedings</i> , <b>2004</b> ,	0	6
69	Interfacial effect on strengthening nanoscale metallic multilayers - a combined Hall-Petch relation and atomistic simulation study. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 663, 29-37	5.3	6
68	Effect of processing factors on the microstructure and gradual diffusion of tungstenized layers. <i>Applied Surface Science</i> , <b>2019</b> , 477, 232-240	6.7	6
67	Effect of hydrogenation and curvature of rotor on the rotation transmission of a curved nanobearing. <i>Computational Materials Science</i> , <b>2017</b> , 127, 295-300	3.2	5
66	Reversible stretching of pre-strained water-filled carbon nanotubes under electric fields. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 18, 1201-1207	2.8	5
65	Effect of the hot electron blast force on ultrafast laser ablation of nickel thin film. <i>Applied Optics</i> , <b>2015</b> , 54, 1737	1.7	5
64	Breathing mode vibrations and elastic properties of single-crystal and penta-twinned gold nanorods. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 22590-8	3.6	5
63	Concurrence of oscillatory and rotation of the rotors in a thermal nanotube motor. <i>Computational Materials Science</i> , <b>2016</b> , 120, 94-98	3.2	5
62	Effects of copper nanoparticle inclusions on pressure-induced fluid-polynanocrystalline structural transitions in krypton. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 233506	2.5	5
61	The Inverse Hall-Petch effect on the impact response of single crystal copper. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2012</b> , 28, 1042-1048	2	5
60	A study on the link between coupled plasticity and damage and decohesion for multiscale modelling. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2001</b> , 215, 259-263	1.3	5
59	Simulating the evolution of localization based on the diffusion of damage. <i>International Journal of Solids and Structures</i> , <b>2000</b> , 37, 7465-7479	3.1	5
58	Analytical and Numerical Study of the Size Effect on the Failure Response of Hierarchical Structures. <i>International Journal for Multiscale Computational Engineering</i> , <b>2008</b> , 6, 339-348	2.4	5
57	Preliminary effort in developing the smoothed material point method for impact. <i>Computational Particle Mechanics</i> , <b>2019</b> , 6, 45-53	3	4
56	The tunable mechanical property of water-filled carbon nanotubes under an electric field. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 125302	3	4
55	Vibration-Induced Property Change in the Melting and Solidifying Process of Metallic Nanoparticles. <i>Nanoscale Research Letters</i> , <b>2017</b> , 12, 308	5	4
54	Mathematical theory and analytical solutions for the wave catching-up phenomena in a nonlinearly elastic composite bar. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2012</b> , 468, 3882-3901	2.4	4

53	The loading history and crystal orientation effects on the size-dependency of single crystal diamond properties. <i>Computational Mechanics</i> , <b>2008</b> , 42, 619-629	4	4
52	An analytical solution with local elastoplastic models for the evolution of dynamic softening. <i>International Journal of Solids and Structures</i> , <b>2000</b> , 37, 5855-5872	3.1	4
51	An Analytical and Numerical Study to Simulate the Evolution of Dynamic Failure with Local Elastodamage Models. <i>International Journal of Damage Mechanics</i> , <b>2000</b> , 9, 305-328	3	4
50	Rate-Dependent Transition From Thermal Softening to Hardening in Elastomers. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2003</b> , 70, 611-612	2.7	4
49	Combined MPM-DEM for Simulating the Interaction Between Solid Elements and Fluid Particles. <i>Communications in Computational Physics</i> , <b>2017</b> , 21, 1258-1281	2.4	3
48	Simulation of hard-soft material interaction under impact loading employing the material point method. <i>Science China Technological Sciences</i> , <b>2015</b> , 58, 763-768	3.5	3
47	Evolution of Localization Length during Postpeak Response of Steel in Tension: Experimental Study. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2020</b> , 146, 04020069	2.4	3
46	Electron relaxation effect on the sub-100-fs laser interaction with gold thin film. <i>Optics Letters</i> , <b>2013</b> , 38, 2397-400	3	3
45	Grain growth as a stochastic and curvature-driven process. <i>Philosophical Magazine Letters</i> , <b>2006</b> , 86, 787-794		3
44	A Model-based Simulation Procedure for the Evolution of Tertiary Creep with Combined Damage Diffusion and Viscoplasticity. <i>International Journal of Damage Mechanics</i> , <b>2005</b> , 14, 149-163	3	3
43	Molecular Dynamics Study of the Specimen Size and Imperfection Effects on the Failure Responses of Multi-Nanobar Structures. <i>International Journal for Multiscale Computational Engineering</i> , <b>2010</b> , 8, 181-194	2.4	3
42	Study of constituent effect on the failure response of fiber reinforced composites to impact loading with the material point method. <i>Composite Structures</i> , <b>2020</b> , 252, 112751	5.3	3
41	Study on the fully coupled thermodynamic fluid-structure interaction with the material point method. <i>Computational Particle Mechanics</i> , <b>2020</b> , 7, 225-240	3	3
40	Divergent effect of electric fields on the mechanical property of water-filled carbon nanotubes with an application as a nanoscale trigger. <i>Nanotechnology</i> , <b>2018</b> , 29, 025707	3.4	2
39	Torsional properties of metallic nanosprings. <i>Acta Mechanica Solida Sinica</i> , <b>2009</b> , 22, 657-664	2	2
38	An Analytical Study on the Post-Peak Structural Response. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2011</b> , 78,	2.7	2
37	A Numerical Study of Combined Rate, Size and Thermal Effects on the Responses of Ultrananocrystalline Diamond. <i>Key Engineering Materials</i> , <b>2007</b> , 334-335, 621-624	0.4	2
36	Molecular dynamics study on mechanical properties of C-S-H composites. <i>Journal of Ceramic Processing Research</i> , <b>2019</b> , 20, 19-30	0.5	2



35	Comparative investigation of shear-band evolution using discrete and continuum-based particle methods. <i>Acta Geotechnica</i> , <b>2021</b> , 16, 2337-2354	4.9	2
34	A total-Lagrangian material point method for coupled growth and massive deformation of incompressible soft materials. <i>International Journal for Numerical Methods in Engineering</i> , <b>2021</b> , 122, 6180	2.4	2
33	Investigation of the mechanical responses of copper nanowires based on molecular dynamics and coarse-grained molecular dynamics. <i>Computational Particle Mechanics</i> , <b>2019</b> , 6, 177-190	3	2
32	Study on one-dimensional softening with localization via integrated MPM and SPH. <i>Computational Particle Mechanics</i> , <b>2019</b> , 6, 629-636	3	1
31	The Development of the Material Point Method for Simulating Nonlocal Failure Evolution Involved in Multi-phase Interactions. <i>Springer Series in Geomechanics and Geoengineering</i> , <b>2019</b> , 21-24	0.1	1
30	Effect of the Post-Peak Behavior on Collapse of Structural Systems <b>2019</b> ,		1
29	Reduction of the effect of electron relaxation behavior on the femtosecond laser-induced response of copper thin film by ballistic energy transfer. <i>International Journal of Thermal Sciences</i> , <b>2015</b> , 93, 21-28	4.1	1
28	Pressure sensitivity of dislocation density in copper single crystals at submicron scale. <i>Materials Research Express</i> , <b>2018</b> , 5, 016504	1.7	1
27	Loading History Effect on Size-Dependent Shear Strength of Pure and Nitrogen-Doped Ultrananocrystalline Diamond. <i>Mechanics of Advanced Materials and Structures</i> , <b>2009</b> , 16, 504-515	1.8	1
26	An investigation of combined size, rate and thermal effects on the material properties of single crystal diamond. <i>International Journal of Materials and Product Technology</i> , <b>2009</b> , 34, 111	1	1
25	Discontinuous Bifurcation Analysis of a Coupled Rate-Dependent Damage and Plasticity Model for Impact Responses. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2007</b> , 133, 970-980	2.4	1
24	Analytical Solutions for Failure Evolution With a Nonlinear Local Damage Model. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2001</b> , 68, 835-843	2.7	1
23	A simple procedure to simulate the failure evolution. <i>Structural Engineering and Mechanics</i> , <b>1996</b> , 4, 601-612		1
22	Axisymmetric Generalized Interpolation Material Point Method for Fully Coupled Thermomechanical Evaluation of Transient Responses. <i>International Journal of Computational Methods</i> , <b>2020</b> , 17, 1950003	1.1	1
21	Combining peridynamics and generalized interpolation material point method via volume modification for simulating transient responses. <i>Computational Particle Mechanics</i> , <b>2021</b> , 8, 337-347	3	1
20	Atomistic study of shock Hugoniot in columnar nanocrystalline copper. <i>Computational Materials Science</i> , <b>2021</b> , 197, 110635	3.2	1
19	Constitutive Models <b>2017</b> , 175-219		0
18	An adaptive peridynamics material point method for dynamic fracture problem. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2022</b> , 393, 114786	5.7	0

- 17 Effect of hot electron blast force on ultrafast laser ablation of nickel thin film: erratum **2015**, 54, 3216
- 16 Recent Advances in Simulating Failure Evolution with the Material Point Method. *Applied Mechanics and Materials*, **2015**, 784, 193-199 0.3
- 15 Multiscale MPM **2017**, 221-229
- 14 Applications of the MPM **2017**, 231-263
- 13 Coupling of the MPM with FEM **2017**, 143-173
- 12 Finite Element Modelling of Stress-Induced Fracture in Ti-Si-N Films. *Applied Mechanics and Materials*, **2014**, 553, 10-15 0.3
- 11 A PC-Based Tool for Coupled CFD and CSD Simulation of Blast-Barrier Responses **2006**, 1
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