Zhen Chen

List of Publications by Year
in descending order

168 papers	5,118 citations	159358 30 h-index	102304 66 g-index
175 all docs	175 docs citations	175 times ranked	4419 citing authors

#	ARTICLE	IF	CITATIONS
1	A particle method for history-dependent materials. Computer Methods in Applied Mechanics and Engineering, 1994, 118, 179-196.	3.4	1,052
2	Penetration of Lipid Membranes by Gold Nanoparticles: Insights into Cellular Uptake, Cytotoxicity, and Their Relationship. ACS Nano, 2010, 4, 5421-5429.	7.3	571
3	Biosorption of nickel and copper onto treated alga (Undaria pinnatifida): Application of isotherm and kinetic models. Journal of Hazardous Materials, 2008, 155, 327-333.	6.5	216
4	One-Dimensional Softening With Localization. Journal of Applied Mechanics, Transactions ASME, 1986, 53, 791-797.	1.1	172
5	An SPH model for multiphase flows with complex interfaces and large density differences. Journal of Computational Physics, 2015, 283, 169-188.	1.9	154
6	Two- and Three-Dimensional Ordered Structures of Hollow Silver Spheres Prepared by Colloidal Crystal Templating. Advanced Materials, 2004, 16, 417-422.	11.1	135
7	Generation of fast propagating combustion and shock waves with copper oxide/aluminum nanothermite composites. Applied Physics Letters, 2007, 91, .	1.5	122
8	The Sandia Fracture Challenge: blind round robin predictions of ductile tearing. International Journal of Fracture, 2014, 186, 5-68.	1.1	115
9	Material point method for dynamic analysis of saturated porous media under external contact/impact of solid bodies. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 1456-1472.	3.4	113
10	Enhancement of the material point method using B‑spline basis functions. International Journal for Numerical Methods in Engineering, 2018, 113, 411-431.	1.5	91
11	Development of an implicit material point method for geotechnical applications. Computers and Geotechnics, 2016, 71, 159-167.	2.3	86
12	A Simulation Study on Nanoscale Holes Generated by Gold Nanoparticles on Negative Lipid Bilayers. Langmuir, 2011, 27, 8323-8332.	1.6	79
13	Anisotropy of nickel-based superalloy K418 fabricated by selective laser melting. Progress in Natural Science: Materials International, 2018, 28, 496-504.	1.8	70
14	An evaluation of the MPM for simulating dynamic failure with damage diffusion. Engineering Fracture Mechanics, 2002, 69, 1873-1890.	2.0	66
15	Model-based simulation of the synergistic effects of blast and fragmentation on a concrete wall using the MPM. International Journal of Impact Engineering, 2006, 32, 2066-2096.	2.4	63
16	Simulation Study of Aggregations of Monolayer-Protected Gold Nanoparticles in Solvents. Journal of Physical Chemistry C, 2011, 115, 18991-18998.	1.5	61
17	Atomistic study of the mechanical response of copper nanowires under torsion. Journal Physics D: Applied Physics, 2009, 42, 135408.	1.3	57
18	Strengthening and toughening by interface-mediated slip transfer reaction in nanotwinned copper. Scripta Materialia, 2009, 60, 508-511.	2.6	56

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19	Transformation of shock compression pulses in glass due to the failure wave phenomena. Journal of Applied Physics, 2002, 92, 5045-5052.	1.1	53
20	Molecular dynamics study of neck growth in laser sintering of hollow silver nanoparticles with different heating rates. Journal Physics D: Applied Physics, 2013, 46, 335302.	1.3	51
21	A multi-mesh MPM for simulating the meshing process of spur gears. Computers and Structures, 2003, 81, 1991-2002.	2.4	48
22	Simulation of Soil–Concrete Interfaces with Nonlocal Constitutive Models. Journal of Engineering Mechanics - ASCE, 1987, 113, 1665-1677.	1.6	40
23	The effect of calcium phosphate nanoparticles on hormone production and apoptosis in human granulosa cells. Reproductive Biology and Endocrinology, 2010, 8, 32.	1.4	39
24	The Material Point Method. , 2017, , 37-101.		39
25	A stable high-speed rotational transmission system based on nanotubes. Applied Physics Letters, 2015, 106, .	1.5	38
26	An investigation of the combined size and rate effects on the mechanical responses of FCC metals. International Journal of Solids and Structures, 2007, 44, 1180-1195.	1.3	37
27	Roles of grain boundary and dislocations at different deformation stages of nanocrystalline copper under tension. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 570-574.	0.9	37
28	A numerical solution scheme for softening problems involving total strain control. Computers and Structures, 1990, 37, 1043-1050.	2.4	34
29	A computational model for impact failure with shear-induced dilatancy. International Journal for Numerical Methods in Engineering, 2003, 56, 1979-1997.	1.5	34
30	Numerical study of the impact response of woodpecker's head. AIP Advances, 2012, 2, .	0.6	33
31	A Coupled MPM-FDM Analysis Method for Multi-Phase Elasto-Plastic Soils. Soils and Foundations, 2010, 50, 515-532.	1.3	32
32	A multiphase smoothed particle hydrodynamics model with lower numerical diffusion. Journal of Computational Physics, 2019, 382, 177-201.	1.9	32
33	An investigation of the effect of interfacial atomic potential on the stress transition in thin films. Modelling and Simulation in Materials Science and Engineering, 2004, 12, S347-S369.	0.8	29
34	A study of the failure wave phenomenon in glasses compressed at different levels. Journal of Applied Physics, 2005, 98, 113523.	1.1	28
35	On nonlocal damage models for interface problems. International Journal of Solids and Structures, 1994, 31, 1241-1261.	1.3	27
36	Formation of two conjoint fivefold deformation twins in copper nanowires with molecular dynamics simulation. Applied Physics Letters, 2008, 92, 041913.	1.5	27

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37	Continuous and Discontinuous Failure Modes. Journal of Engineering Mechanics - ASCE, 1996, 122, 80-82.	1.6	26
38	A bifurcation-based decohesion model for simulating the transition from localization to decohesion with the MPM. Zeitschrift Fur Angewandte Mathematik Und Physik, 2005, 56, 908-930.	0.7	26
39	Simulation of geomembrane response to settlement in landfills by using the material point method. International Journal for Numerical and Analytical Methods in Geomechanics, 1999, 23, 1977-1994.	1.7	24
40	Improved decohesion modeling with the material point method for simulating crack evolution. International Journal of Fracture, 2014, 186, 177-184.	1.1	24
41	Development of generalized interpolation material point method for simulating fully coupled thermomechanical failure evolution. Computer Methods in Applied Mechanics and Engineering, 2018, 332, 325-342.	3.4	24
42	Monte Carlo simulation of grain growth in two-phase nanocrystalline materials. Applied Physics Letters, 2006, 88, 144103.	1.5	23
43	An investigation of grain size and nitrogen-doping effects on the mechanical properties of ultrananocrystalline diamond films. International Journal of Solids and Structures, 2007, 44, 3379-3392.	1.3	22
44	Multiscale simulation of the responses of discrete nanostructures to extreme loading conditions based on the material point method. Computer Methods in Applied Mechanics and Engineering, 2015, 297, 219-238.	3.4	22
45	A multi-scale simulation of tungsten film delamination from silicon substrate. International Journal of Solids and Structures, 2005, 42, 5036-5056.	1.3	21
46	A study of the zona piercing process in piezodriven intracytoplasmic sperm injection. Journal of Applied Physics, 2008, 104, .	1.1	21
47	Generalized interpolation material point method for coupled thermo-mechanical processes. International Journal of Mechanics and Materials in Design, 2016, 12, 577-595.	1.7	21
48	Study of Tertiary Creep of Rock Salt. Journal of Engineering Mechanics - ASCE, 1997, 123, 77-82.	1.6	20
49	A Numerical Study of the Size and Rate Effects on the Mechanical Response of Single Crystal Diamond and UNCD Films. International Journal of Damage Mechanics, 2006, 15, 169-195.	2.4	20
50	Loading path effect on the mechanical behaviour and fivefold twinning of copper nanowires. Journal Physics D: Applied Physics, 2010, 43, 335402.	1.3	20
51	A Neural-Network Model-Based Engineering Tool for Blast Wall Protection of Structures. International Journal of Protective Structures, 2011, 2, 159-176.	1.4	20
52	A particle-based multiscale simulation procedure within the material point method framework. Computational Particle Mechanics, 2014, 1, 147-158.	1.5	20
53	An analytical and numerical study of failure waves. International Journal of Solids and Structures, 1999, 36, 3977-3991.	1.3	19
54	An equation of state for the detonation product of copper oxide/aluminum nanothermite composites. Journal of Nanoparticle Research, 2010, 12, 719-726.	0.8	19

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55	Melt flow and heat transfer in laser drilling. International Journal of Thermal Sciences, 2016, 107, 141-152.	2.6	19
56	Secant structural solution strategies under element constraint for incremental damage. Computer Methods in Applied Mechanics and Engineering, 1991, 90, 869-884.	3.4	18
57	Microstructure and mechanical property of turtle shell. Theoretical and Applied Mechanics Letters, 2012, 2, 014009.	1.3	18
58	Numerical study of the mechanical response of turtle shell. Journal of Bionic Engineering, 2012, 9, 330-335.	2.7	18
59	Size effects on the impact response of copper nanobeams. Journal of Applied Physics, 2012, 111, .	1.1	18
60	A partitioned-modeling approach with moving jump conditions for localization. International Journal of Solids and Structures, 1995, 32, 1893-1905.	1.3	17
61	Influence of dry density and confinement environment on the high strain rate response of partially saturated sand. International Journal of Impact Engineering, 2018, 116, 65-78.	2.4	16
62	Time-discontinuous material point method for transient problems. Computer Methods in Applied Mechanics and Engineering, 2018, 328, 663-685.	3.4	16
63	Computational study of the nanoscale mechanical properties of C-S-H composites under different temperatures. Computational Materials Science, 2018, 146, 42-53.	1.4	15
64	A study of mechanical properties of pure and nitrogen-doped ultrananocrystalline diamond films under various loading conditions. International Journal of Solids and Structures, 2009, 46, 811-823.	1.3	14
65	On constructing the analytical solutions for localizations in a slender cylinder composed of an incompressible hyperelastic material. International Journal of Solids and Structures, 2008, 45, 2613-2628.	1.3	13
66	Hierarchical multiscale simulations of crystalline Î²-octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (Î²-HMX): Generalized interpolation material point method simulations of brittle fracture using an elastodamage model derived from molecular dynamics. International Journal of Damage Mechanics, 2017, 26, 293-313.	2.4	13
67	Deformation and Stability of Copper Nanowires under Bending. International Journal for Multiscale Computational Engineering, 2009, 7, 205-215.	0.8	13
68	A multiscale material point method for impact simulation. Theoretical and Applied Mechanics Letters, 2012, 2, 051003.	1.3	12
69	Size and surface effects on the mechanical behavior of nanotubes in first gradient elasticity. Composites Part B: Engineering, 2012, 43, 27-32.	5.9	12
70	Controllable deformation of salt water-filled carbon nanotubes using an electric field with application to molecular sieving. Nanotechnology, 2016, 27, 315702.	1.3	12
71	An adjustable permeation membrane up to the separation for multicomponent gas mixture. Scientific Reports, 2019, 9, 7380.	1.6	12
72	Formation of quasi-icosahedral structures with multi-conjoint fivefold deformation twins in fivefold twinned metallic nanowires. Applied Physics Letters, 2013, 103, .	1.5	11

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73	Size effects on the wave propagation and deformation pattern in copper nanobars under symmetric longitudinal impact loading. Journal Physics D: Applied Physics, 2012, 45, 475305.	1.3	10
74	Extensional vibration and size-dependent mechanical properties of single-crystal gold nanorods. Journal of Applied Physics, 2015, 118, .	1.1	10
75	Mesoscale study of particle sedimentation with inertia effect using dissipative particle dynamics. Microfluidics and Nanofluidics, 2015, 18, 1309-1315.	1.0	10
76	Dynamic response of a carbon nanotube-based rotary nano device with different carbon-hydrogen bonding layout. Applied Surface Science, 2016, 365, 352-356.	3.1	10
77	A <scp>total Lagrangian</scp> material point method for coupled growth and massive deformation of incompressible soft materials. International Journal for Numerical Methods in Engineering, 2021, 122, 6180-6202.	1.5	10
78	An adaptive peridynamics material point method for dynamic fracture problem. Computer Methods in Applied Mechanics and Engineering, 2022, 393, 114786.	3.4	10
79	Rate-dependent transition from tensile damage to discrete fracture in dynamic brittle failure. Theoretical and Applied Fracture Mechanics, 2001, 35, 229-235.	2.1	9
80	Model-based simulation of normal grain growth in a two-phase nanostructured system. Science and Technology of Advanced Materials, 2006, 7, 812-818.	2.8	9
81	A study of the loading path and crystal orientation effects on size-dependent limit strength. Engineering Fracture Mechanics, 2007, 74, 1190-1202.	2.0	9
82	An analytical study of the instability of a superelastic shape memory alloy cylinder subject to practical boundary conditions. Smart Materials and Structures, 2009, 18, 024007.	1.8	9
83	The effect of interface adhesion on buckling and cracking of hard thin films. Applied Physics Letters, 2014, 105, .	1.5	9
84	Ultrafast laser-excited vibration and elastic modulus of individual gold nanorods. Optics Letters, 2015, 40, 340.	1.7	9
85	Interfacial effect on strengthening nanoscale metallic multilayers - a combined Hall-Petch relation and atomistic simulation study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 663, 29-37.	2.6	9
86	Effect of processing factors on the microstructure and gradual diffusion of tungstenized layers. Applied Surface Science, 2019, 477, 232-240.	3.1	9
87	Study on the fully coupled thermodynamic fluid–structure interaction with the material point method. Computational Particle Mechanics, 2020, 7, 225-240.	1.5	9
88	A Partitioned-Solution Method with Moving Boundaries for Nonlocal Plasticity. , 1993, , 449-468.		9
89	Analytical and Numerical Study of the Size Effect on the Failure Response of Hierarchical Structures. International Journal for Multiscale Computational Engineering, 2008, 6, 339-348.	0.8	9
90	IMPACT-INDUCED BENDING RESPONSE OF SINGLE CRYSTAL AND FIVE-FOLD TWINNED NANOWIRES. International Journal for Multiscale Computational Engineering, 2013, 11, 1-16.	0.8	8

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91	A semi-analytical solution procedure for predicting damage evolution at interfaces. International Journal for Numerical and Analytical Methods in Geomechanics, 1993, 17, 807-819.	1.7	7
92	Simulating the evolution of localization based on the diffusion of damage. International Journal of Solids and Structures, 2000, 37, 7465-7479.	1.3	7
93	A Study of the Failure Wave Phenomenon in Brittle Materials. AIP Conference Proceedings, 2004, , .	0.3	7
94	A numerical study of the imperfection effect on ultrananocrystalline diamond properties under different loading paths and temperatures. Composites Science and Technology, 2009, 69, 2075-2080.	3.8	7
95	Water filling and electric field-induced enhancement in the mechanical property of carbon nanotubes. Scientific Reports, 2015, 5, 17537.	1.6	7
96	Effect of the hot electron blast force on ultrafast laser ablation of nickel thin film. Applied Optics, 2015, 54, 1737.	0.9	7
97	Breathing mode vibrations and elastic properties of single-crystal and penta-twinned gold nanorods. Physical Chemistry Chemical Physics, 2016, 18, 22590-22598.	1.3	7
98	Concurrence of oscillatory and rotation of the rotors in a thermal nanotube motor. Computational Materials Science, 2016, 120, 94-98.	1.4	7
99	The effects of initial void and dislocation on the onset of plasticity in copper single crystals. Journal of Applied Physics, 2019, 126, 165104.	1.1	7
100	An analytical solution with local elastoplastic models for the evolution of dynamic softening. International Journal of Solids and Structures, 2000, 37, 5855-5872.	1.3	6
101	The loading history and crystal orientation effects on the size-dependency of single crystal diamond properties. Computational Mechanics, 2008, 42, 619-629.	2.2	6
102	The "Inverse Hall-Petch" effect on the impact response of single crystal copper. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 1042-1048.	1.5	6
103	Effects of copper nanoparticle inclusions on pressure-induced fluid-polynanocrystalline structural transitions in krypton. Journal of Applied Physics, 2014, 116, .	1.1	6
104	Effect of hydrogenation and curvature of rotor on the rotation transmission of a curved nanobearing. Computational Materials Science, 2017, 127, 295-300.	1.4	6
105	Preliminary effort in developing the smoothed material point method for impact. Computational Particle Mechanics, 2019, 6, 45-53.	1.5	6
106	A study on the link between coupled plasticity and damage and decohesion for multiscale modelling. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2001, 215, 259-263.	1.1	5
107	Grain growth as a stochastic and curvature-driven process. Philosophical Magazine Letters, 2006, 86, 787-794.	0.5	5
108	Loading History Effect on Size-Dependent Shear Strength of Pure and Nitrogen-Doped Ultrananocrystalline Diamond. Mechanics of Advanced Materials and Structures, 2009, 16, 504-515.	1.5	5

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109	Mathematical theory and analytical solutions for the wave catching-up phenomena in a nonlinearly elastic composite bar. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 3882-3901.	1.0	5
110	Reversible stretching of pre-strained water-filled carbon nanotubes under electric fields. Microfluidics and Nanofluidics, 2015, 18, 1201-1207.	1.0	5
111	Vibration-Induced Property Change in the Melting and Solidifying Process of Metallic Nanoparticles. Nanoscale Research Letters, 2017, 12, 308.	3.1	5
112	Investigation of the mechanical responses of copper nanowires based on molecular dynamics and coarse-grained molecular dynamics. Computational Particle Mechanics, 2019, 6, 177-190.	1.5	5
113	Molecular Dynamics Study of the Specimen Size and Imperfection Effects on the Failure Responses of Multi-Nanobar Structures. International Journal for Multiscale Computational Engineering, 2010, 8, 181-194.	0.8	5
114	The tunable mechanical property of water-filled carbon nanotubes under an electric field. Journal Physics D: Applied Physics, 2014, 47, 125302.	1.3	4
115	Combined MPM-DEM for Simulating the Interaction Between Solid Elements and Fluid Particles. Communications in Computational Physics, 2017, 21, 1258-1281.	0.7	4
116	Study of constituent effect on the failure response of fiber reinforced composites to impact loading with the material point method. Composite Structures, 2020, 252, 112751.	3.1	4
117	Evolution of Localization Length during Postpeak Response of Steel in Tension: Experimental Study. Journal of Engineering Mechanics - ASCE, 2020, 146, .	1.6	4
118	Combining peridynamics and generalized interpolation material point method via volume modification for simulating transient responses. Computational Particle Mechanics, 2021, 8, 337-347.	1.5	4
119	Comparative investigation of shear-band evolution using discrete and continuum-based particle methods. Acta Geotechnica, 2021, 16, 2337-2354.	2.9	4
120	Atomistic study of shock Hugoniot in columnar nanocrystalline copper. Computational Materials Science, 2021, 197, 110635.	1.4	4
121	An Analytical and Numerical Study to Simulate the Evolution of Dynamic Failure with Local Elastodamage Models. International Journal of Damage Mechanics, 2000, 9, 305-328.	2.4	4
122	Rate-Dependent Transition From Thermal Softening to Hardening in Elastomers. Journal of Applied Mechanics, Transactions ASME, 2003, 70, 611-612.	1.1	4
123	A Model-based Simulation Procedure for the Evolution of Tertiary Creep with Combined Damage Diffusion and Viscoplasticity. International Journal of Damage Mechanics, 2005, 14, 149-163.	2.4	3
124	A Numerical Study of Combined Rate, Size and Thermal Effects on the Responses of Ultrananocrystalline Diamond. Key Engineering Materials, 2007, 334-335, 621-624.	0.4	3
125	An investigation of combined size, rate and thermal effects on the material properties of single crystal diamond. International Journal of Materials and Product Technology, 2009, 34, 111.	0.1	3
126	An Analytical Study on the Post-Peak Structural Response. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	1.1	3

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127	Electron relaxation effect on the sub-100-fs laser interaction with gold thin film. Optics Letters, 2013, 38, 2397.	1.7	3
128	Simulation of hard-soft material interaction under impact loading employing the material point method. Science China Technological Sciences, 2015, 58, 763-768.	2.0	3
129	Constitutive Models. , 2017, , 175-219.		3
130	Divergent effect of electric fields on the mechanical property of water-filled carbon nanotubes with an application as a nanoscale trigger. Nanotechnology, 2018, 29, 025707.	1.3	3
131	Study on one-dimensional softening with localization via integrated MPM and SPH. Computational Particle Mechanics, 2019, 6, 629-636.	1.5	3
132	Molecular dynamics study on mechanical properties of C-S-H composites. Journal of Ceramic Processing Research, 2019, 20, 19-30.	0.4	3
133	A Study of Localization Problems based on the Transition between Governing Equations. Advances in Structural Engineering, 1999, 2, 289-304.	1.2	2
134	Study of the Combined Temperature, Rate, and Size Effects on the Tungsten Crystalline Block Strength. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2005, 219, 111-122.	0.1	2
135	Torsional properties of metallic nanosprings. Acta Mechanica Solida Sinica, 2009, 22, 657-664.	1.0	2
136	Reduction of the effect of electron relaxation behavior on the femtosecond laser-induced response of copper thin film by ballistic energy transfer. International Journal of Thermal Sciences, 2015, 93, 21-28.	2.6	2
137	Pressure sensitivity of dislocation density in copper single crystals at submicron scale. Materials Research Express, 2018, 5, 016504.	0.8	2
138	Effect of the Post-Peak Behavior on Collapse of Structural Systems. , 2019, , .		2
139	Analyical Solutions for Failure Evolution With a Nonlinear Local Damage Model. Journal of Applied Mechanics, Transactions ASME, 2001, 68, 835-843.	1.1	1
140	Discontinuous Bifurcation Analysis of a Coupled Rate-Dependent Damage and Plasticity Model for Impact Responses. Journal of Engineering Mechanics - ASCE, 2007, 133, 970-980.	1.6	1
141	Applications of the MPM. , 2017, , 231-263.		1
142	Physical characteristics of nanoscale titanium-aluminum alloy powder during 3D printing laser sintering process â€" A molecular dynamics study. , 2018, , .		1
143	The Development of the Material Point Method for Simulating Nonlocal Failure Evolution Involved in Multi-phase Interactions. Springer Series in Geomechanics and Geoengineering, 2019, , 21-24.	0.0	1
144	Axisymmetric Generalized Interpolation Material Point Method for Fully Coupled Thermomechanical Evaluation of Transient Responses. International Journal of Computational Methods, 2020, 17, 1950003.	0.8	1

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145	A simple procedure to simulate the failure evolution. Structural Engineering and Mechanics, 1996, 4, 601-612.	1.0	1
146	Bifurcation Analyses of Steel and Concrete with Rate-Dependent Properties Part Two: Bifurcation Analyses and Demonstration. Advances in Structural Engineering, 2002, 4, 225-232.	1.2	0
147	Bifurcation Analyses of Steel and Concrete with Rate-Dependent Properties Part One: Model Formulation and Verification. Advances in Structural Engineering, 2002, 4, 217-224.	1.2	0
148	A PC-Based Tool for Coupled CFD and CSD Simulation of Blast-Barrier Responses. , 2006, , 1.		0
149	A Study of the Failure Wave Phenomenon in Glasses at Peak Stresses Exceeding the HEL. AIP Conference Proceedings, 2006, , .	0.3	0
150	Model-based simulation of the responses of ultrananocrystalline diamond and nano structures. , 2009, , .		0
151	Recent Findings on the Mechanical Responses of Nanostructures to Extreme Loading Conditions. , 2010, , .		0
152	SPECIAL ISSUE BASED ON THE MINI-SYMPOSIUM ENTITLED "BIO- AND NANO-MECHANICS AND MATERIALS WITH APPLICATIONS" FOR THE 9THWORLD CONGRESS ON COMPUTATIONAL MECHANICS (WCCM 2010). International Journal for Multiscale Computational Engineering, 2013, 11, vii-viii.	0.8	0
153	Finite Element Modelling of Stress-Induced Fracture in Ti-Si-N Films. Applied Mechanics and Materials, 0, 553, 10-15.	0.2	0
154	Effect of hot electron blast force on ultrafast laser ablation of nickel thin film: erratum. Applied Optics, 2015, 54, 3216.	2.1	0
155	Recent Advances in Simulating Failure Evolution with the Material Point Method. Applied Mechanics and Materials, 0, 784, 193-199.	0.2	0
156	Concurrent material point method and molecular dynamics approach for simulating transient responses. AIP Conference Proceedings, 2017, , .	0.3	0
157	Multiscale MPM. , 2017, , 221-229.		0
158	Coupling of the MPM with FEM. , 2017, , 143-173.		0
159	Physical characteristics of nanoscale niobium-zirconium alloy powder during 3D printing laser sintering process â€" A molecular dynamics study. , 2018, , .		0
160	On the continuous and discontinuous approaches for simulating localized damage. , 2003, , .		0
161	Recent Advances in Multiscale Simulation of UNCD Strength. , 2007, , 361-361.		0
162	Combined Stochastic Diffusion and Mean-Field Model for Grain Growth. , 2007, , 234-234.		0

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163	A combined stochastic diffusion and mean-field model for grain growth. Interaction and Multiscale Mechanics, 2008, 1, 369-379.	0.4	0
164	A Study on the Collapse of Self-Similar Hardening Behavior of Nanostructures. International Journal for Multiscale Computational Engineering, 2009, 7, 195-204.	0.8	0
165	Recent findings about combined size and rate effects on material properties. WIT Transactions on the Built Environment, 2012, , .	0.0	0
166	A Partitioned-Modeling Approach for Domain-Transition Problems. , 1995, , 1721-1726.		0
167	A REVIEW ON THE NUMERICAL SOLUTION SCHEMES FOR LOCALIZATION PROBLEMS. , 1999, , 111-124.		0
168	Combined loading rate and specimen size effects on the material properties. , 2007, , 67-84.		0