

Min Zhou

List of Publications by Year in descending order

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157
papers

6,277
citations

81743

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h-index

74018

75
g-index

160
all docs

160
docs citations

160
times ranked

4441
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic behavior of concrete at high strain rates and pressures: I. experimental characterization. International Journal of Impact Engineering, 2001, 25, 869-886.	2.4	591
2	A new look at the atomic level virial stress: on continuum-molecular system equivalence. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2003, 459, 2347-2392.	1.0	465
3	Dynamically propagating shear bands in impact-loaded prenotched platesâ€”I. Experimental investigations of temperature signatures and propagation speed. Journal of the Mechanics and Physics of Solids, 1996, 44, 981-1006.	2.3	246
4	Orientation and size dependence of the elastic properties of zinc oxide nanobelts. Nanotechnology, 2005, 16, 2749-2756.	1.3	239
5	Shape Memory Effect in Cu Nanowires. Nano Letters, 2005, 5, 2039-2043.	4.5	229
6	Siliconâ€”Carbon Nanotube Coaxial Sponge as Liâ€”ion Anodes with High Areal Capacity. Advanced Energy Materials, 2011, 1, 523-527.	10.2	220
7	Dynamically propagating shear bands in impact-loaded prenotched platesâ€”II. Numerical simulations. Journal of the Mechanics and Physics of Solids, 1996, 44, 1007-1032.	2.3	183
8	Novel Phase Transformation in ZnO Nanowires under Tensile Loading. Physical Review Letters, 2006, 97, 105502.	2.9	171
9	Bounds for element size in a variable stiffness cohesive finite element model. International Journal for Numerical Methods in Engineering, 2004, 61, 1894-1920.	1.5	160
10	Atomistic simulations reveal shape memory of fcc metal nanowires. Physical Review B, 2006, 73, .	1.1	146
11	Atomistic investigation of the effects of temperature and surface roughness on diffusion bonding between Cu and Al. Acta Materialia, 2007, 55, 3169-3175.	3.8	142
12	A Lagrangian framework for analyzing microstructural level response of polymer-bonded explosives. Modelling and Simulation in Materials Science and Engineering, 2011, 19, 055001.	0.8	136
13	Dynamic behavior of concrete at high strain rates and pressures: II. numerical simulation. International Journal of Impact Engineering, 2001, 25, 887-910.	2.4	108
14	Finite element simulations of shear localization in plate impact. Journal of the Mechanics and Physics of Solids, 1994, 42, 423-458.	2.3	105
15	Energy localization in HMX-Estane polymer-bonded explosives during impact loading. Journal of Applied Physics, 2012, 111, .	1.1	101
16	Micromechanical Simulation of Dynamic Fracture Using the Cohesive Finite Element Method. Journal of Engineering Materials and Technology, Transactions of the ASME, 2004, 126, 179-191.	0.8	89
17	Pseudoelasticity of Single Crystalline Cu Nanowires Through Reversible Lattice Reorientations. Journal of Engineering Materials and Technology, Transactions of the ASME, 2005, 127, 423-433.	0.8	82
18	Ignition criterion for heterogeneous energetic materials based on hotspot size-temperature threshold. Journal of Applied Physics, 2013, 113, .	1.1	81

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19	Molecular dynamics and density functional studies of a body-centered-tetragonal polymorph of ZnO. <i>Physical Review B</i> , 2007, 76, .	1.1	80
20	Coupled mechano-diffusional driving forces for fracture in electrode materials. <i>Journal of Power Sources</i> , 2013, 230, 176-193.	4.0	77
21	High-speed digital imaging and computational modeling of dynamic failure in composite structures subjected to underwater impulsive loads. <i>International Journal of Impact Engineering</i> , 2015, 77, 147-165.	2.4	77
22	Response of copper nanowires in dynamic tensile deformation. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2004, 218, 599-606.	1.1	73
23	Strong stress-enhanced diffusion in amorphous lithium alloy nanowire electrodes. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	73
24	Size-dependent thermal conductivity of zinc oxide nanobelts. <i>Applied Physics Letters</i> , 2006, 88, 141921.	1.5	72
25	Prediction of fracture toughness of ceramic composites as function of microstructure: I. Numerical simulations. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 472-488.	2.3	72
26	Novel mechanical behavior of ZnO nanorods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 3182-3189.	3.4	67
27	Stability of wurtzite, unbuckled wurtzite, and rocksalt phases of SiC, GaN, InN, ZnO, and CdSe under loading of different triaxialities. <i>Physical Review B</i> , 2008, 77, .	1.1	62
28	Prediction of shock initiation thresholds and ignition probability of polymer-bonded explosives using mesoscale simulations. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 114, 97-116.	2.3	58
29	Finite element analysis of micromechanical failure modes in a heterogeneous ceramic material system. <i>International Journal of Fracture</i> , 2000, 101, 161-180.	1.1	54
30	Experimental investigation and multiscale modeling of ultra-high-performance concrete panels subject to blast loading. <i>International Journal of Impact Engineering</i> , 2014, 69, 95-103.	2.4	54
31	Equivalent continuum for dynamically deforming atomistic particle systems. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002, 82, 2547-2574.	0.8	49
32	Dynamic Constitutive and Failure Behavior of a Two-Phase Tungsten Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1997, 64, 487-494.	1.1	46
33	Effect of Facesheet Thickness on Dynamic Response of Composite Sandwich Plates to Underwater Impulsive Loading. <i>Experimental Mechanics</i> , 2012, 52, 83-93.	1.1	46
34	Separation of elastic waves in split Hopkinson bars using one-point strain measurements. <i>Experimental Mechanics</i> , 1999, 39, 287-294.	1.1	45
35	Micro-crack initiation and propagation in a high strength aluminum alloy during very high cycle fatigue. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 715, 404-413.	2.6	45
36	An analysis of the dynamic shear failure resistance of structural metals. <i>Journal of the Mechanics and Physics of Solids</i> , 1998, 46, 2155-2170.	2.3	42

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37	Prediction of probabilistic ignition behavior of polymer-bonded explosives from microstructural stochasticity. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	42
38	Microstructural level response of HMX- ϵ -Estane polymer-bonded explosive under effects of transient stress waves. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 3725-3744.	1.0	41
39	Deterministic and stochastic analyses of fracture processes in a brittle microstructure system. <i>Engineering Fracture Mechanics</i> , 2005, 72, 1920-1941.	2.0	40
40	Determination of fracture toughness of AZ31 Mg alloy using the cohesive finite element method. <i>Engineering Fracture Mechanics</i> , 2012, 96, 401-415.	2.0	40
41	Surface-effects-dominated thermal and mechanical responses of zinc oxide nanobelts. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2006, 22, 217-224.	1.5	39
42	Computational analysis of temperature rises in microstructures of HMX-Estane PBXs. <i>Computational Mechanics</i> , 2013, 52, 151-159.	2.2	38
43	Analyses of tensile deformation of nanocrystalline $\hat{\text{I}}\pm\text{-Fe}_2\text{O}_3\text{+fcc-Al}$ composites using molecular dynamics simulations. <i>Journal of the Mechanics and Physics of Solids</i> , 2007, 55, 1053-1085.	2.3	37
44	A semi-analytical method for quantifying the size-dependent elasticity of nanostructures. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2008, 16, 025002.	0.8	37
45	Compressive response of sandwich plates to water-based impulsive loading. <i>International Journal of Impact Engineering</i> , 2016, 93, 196-210.	2.4	37
46	Prediction of fracture toughness of ceramic composites as function of microstructure: II. analytical model. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 489-503.	2.3	34
47	Mechanical reliability of alloy-based electrode materials for rechargeable Li-ion batteries. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 1205-1224.	0.7	33
48	Exceptional Properties by Design. <i>Science</i> , 2013, 339, 1161-1162.	6.0	33
49	Effect of microstructure on load-carrying and energy-dissipation capacities of UHPC. <i>Cement and Concrete Research</i> , 2013, 43, 34-50.	4.6	33
50	Computational prediction of probabilistic ignition threshold of pressed granular Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) under shock loading. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	33
51	Energy dissipation in polymer-bonded explosives with various levels of constituent plasticity and internal friction. <i>Computational Materials Science</i> , 2019, 159, 136-149.	1.4	32
52	Ignition probability of polymer-bonded explosives accounting for multiple sources of material stochasticity. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	31
53	Effect of Microstructure on Dynamic Failure Resistance of Titanium Diboride/Alumina Ceramics. <i>Journal of the American Ceramic Society</i> , 2003, 86, 449-457.	1.9	30
54	Wurtzite-to-tetragonal structure phase transformation and size effect in ZnO nanorods. <i>Journal of Applied Physics</i> , 2010, 107, 023512.	1.1	30

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55	Stress relaxation through interdiffusion in amorphous lithium alloy electrodes. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 579-596.	2.3	30
56	Tension-compression strength asymmetry of nanocrystalline Fe_2O_3 +fcc-Al ceramic-metal composites. <i>Applied Physics Letters</i> , 2006, 88, 233107.	1.5	29
57	A micromechanical continuum model for the tensile behavior of shape memory metal nanowires. <i>Journal of the Mechanics and Physics of Solids</i> , 2007, 55, 1729-1761.	2.3	29
58	Synergistic Enhancement of Thermal Conductivity and Dielectric Properties in $\text{Al}_2\text{O}_3/\text{BaTiO}_3/\text{PP}$ Composites. <i>Materials</i> , 2018, 11, 1536.	1.3	29
59	On the growth of shear bands and failure-mode transition in prenotched plates: A comparison of singly and doubly notched specimens. <i>International Journal of Plasticity</i> , 1998, 14, 435-451.	4.1	27
60	Classical molecular-dynamics potential for the mechanical strength of nanocrystalline composite fccAl+ Fe_2O_3 . <i>Physical Review B</i> , 2006, 73, .	1.1	27
61	Simulation of single fiber pullout response with account of fiber morphology. <i>Cement and Concrete Composites</i> , 2014, 48, 42-52.	4.6	27
62	Discovery, characterization and modelling of novel shape memory behaviour of fcc metal nanowires. <i>Philosophical Magazine</i> , 2007, 87, 2191-2220.	0.7	26
63	Analysis of thermomechanical response of polycrystalline HMX under impact loading through mesoscale simulations. <i>AIP Advances</i> , 2014, 4, .	0.6	26
64	A general scenario of fish-eye crack initiation on the life of high-strength steels in the very high-cycle fatigue regime. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 2183-2194.	1.7	26
65	Thermomechanical continuum representation of atomistic deformation at arbitrary size scales. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2005, 461, 3437-3472.	1.0	25
66	Quantification of probabilistic ignition thresholds of polymer-bonded explosives with microstructure defects. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	25
67	Tunable thermal response of ZnO nanowires. <i>Nanotechnology</i> , 2007, 18, 435706.	1.3	24
68	Density functional theory study of the mechanism of Li diffusion in rutile RuO_2 . <i>AIP Advances</i> , 2014, 4, .	0.6	24
69	Thermal and mechanical response of [0001]-oriented GaN nanowires during tensile loading and unloading. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	21
70	Strong dependency of lithium diffusion on mechanical constraints in high-capacity Li-ion battery electrodes. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 1068-1077.	1.5	21
71	Ab initio study of the fracture energy of $\text{LiFePO}_4/\text{FePO}_4$ interfaces. <i>Journal of Power Sources</i> , 2013, 243, 706-714.	4.0	21
72	Dynamic ductile rupture under conditions of plane strain. <i>International Journal of Impact Engineering</i> , 1997, 19, 189-206.	2.4	20

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73	Experimental characterization of the dynamic failure behavior of mortar under impact loading. <i>Journal of Applied Physics</i> , 2001, 89, 2115-2123.	1.1	20
74	Strain dependence of thermal conductivity of [0001]-oriented GaN nanowires. <i>Applied Physics Letters</i> , 2011, 98, 041909.	1.5	19
75	Time-Resolved Impact Response and Damage of Fiber-Reinforced Composite Laminates. <i>Journal of Composite Materials</i> , 2000, 34, 879-904.	1.2	17
76	Response of Cylindrical Composite Structures to Underwater Impulsive Loading. <i>Procedia Engineering</i> , 2014, 88, 69-76.	1.2	17
77	Exploration of CdTe quantum dots as mesoscale pressure sensors via time-resolved shock-compression photoluminescent emission spectroscopy. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	17
78	Effect of grain orientations on fracture behavior of polycrystalline metals. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 151, 104384.	2.3	17
79	The growth of shear bands in composite microstructures. <i>International Journal of Plasticity</i> , 1998, 14, 733-754.	4.1	16
80	Laser-excited optical emission response of CdTe quantum dot/polymer nanocomposite under shock compression. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	16
81	Surface transformation and inversion domain boundaries in gallium nitride nanorods. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	15
82	Response of submerged metallic sandwich structures to underwater impulsive loads. <i>Journal of Mechanics of Materials and Structures</i> , 2015, 10, 17-41.	0.4	15
83	Grain boundary sliding mechanism in plastic deformation of nano-grained YAG transparent ceramics: Generalized self-consistent model and nanoindentation experimental validation. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2705-2715.	2.8	15
84	Novel experimental and 3D multiphysics computational framework for analyzing deformation and failure of composite laminates subjected to water blasts. <i>International Journal of Impact Engineering</i> , 2017, 106, 223-237.	2.4	14
85	Prediction of Probabilistic Detonation Threshold via Millimeter-scale Microstructure-Explicit and Void-Explicit Simulations. <i>Propellants, Explosives, Pyrotechnics</i> , 2020, 45, 254-269.	1.0	14
86	Effect of core density on deformation and failure in sandwich composites subjected to underwater impulsive loads. <i>International Journal of Multiphysics</i> , 2012, 6, 241-266.	0.3	14
87	Effect of load triaxiality on polymorphic transitions in zinc oxide. <i>Mechanics Research Communications</i> , 2008, 35, 73-80.	1.0	13
88	Effect of competing mechanisms on fracture toughness of metals with ductile grain structures. <i>Engineering Fracture Mechanics</i> , 2019, 205, 14-27.	2.0	13
89	Microwave Stimulation of Energetic Al-Based Nanoparticle Composites for Ignition Modulation. <i>ACS Applied Nano Materials</i> , 2022, 5, 2460-2469.	2.4	13
90	A novel technique for time-resolved detection and tracking of interfacial and matrix fracture in layered materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 2771-2799.	2.3	12

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91	Prediction of fracture toughness scatter of composite materials. Computational Materials Science, 2016, 116, 44-51.	1.4	12
92	Novel Capability for Microscale In-situ Imaging of Temperature and Deformation Fields under Dynamic Loading. Experimental Mechanics, 2019, 59, 775-790.	1.1	12
93	Three-dimensional microstructure-explicit and void-explicit mesoscale simulations of detonation of HMX at millimeter sample size scale. Journal of Applied Physics, 2020, 127, .	1.1	12
94	Effects of flexoelectric and piezoelectric properties on the impact-driven ignition sensitivity of P(VDF-TrFE)/nAl films. Combustion and Flame, 2022, 242, 112181.	2.8	12
95	Dynamic high-strain-rate mechanical behavior of microstructurally biased two-phase TiB ₂ +Al ₂ O ₃ ceramics. Journal of Applied Physics, 2002, 91, 1921-1927.	1.1	11
96	Computational Analysis of Ignition in Heterogeneous Energetic Materials. Materials Science Forum, 0, 767, 13-21.	0.3	11
97	Response of Cylindrical Composite Structures Subjected to Underwater Impulsive Loading: Experimentations and Computations. Journal of Engineering Materials and Technology, Transactions of the ASME, 2017, 139, .	0.8	11
98	Integrated Lagrangian and Eulerian 3D microstructure-explicit simulations for predicting macroscopic probabilistic SDT thresholds of energetic materials. Computational Mechanics, 2019, 64, 547-561.	2.2	11
99	A computational framework for predicting the fracture toughness of metals as function of microstructure. Journal of the Mechanics and Physics of Solids, 2020, 142, 103955.	2.3	11
100	High-speed x-ray phase contrast imaging and digital image correlation analysis of microscale shock response of an additively manufactured energetic material simulant. Journal of Applied Physics, 2020, 127, .	1.1	11
101	Characterization of novel pseudoelastic behaviour of zinc oxide nanowires. Philosophical Magazine, 2007, 87, 2117-2134.	0.7	10
102	Mechanism for the Pseudoelastic Behavior of FCC Shape Memory Nanowires. Experimental Mechanics, 2009, 49, 183-190.	1.1	10
103	Size and Strain Rate Effects in Tensile Deformation of Cu Nanowires. , 2003, , .		9
104	Ignition Desensitization of PBX via Aluminization. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4578-4586.	1.1	9
105	Implosion of composite cylinders due to underwater impulsive loads. , 2017, , 239-262.		9
106	Heating in microstructures of HMX/Estane PBX during dynamic deformation. , 2012, , .		8
107	Effect of void positioning on the detonation sensitivity of a heterogeneous energetic material. Journal of Applied Physics, 2022, 131, .	1.1	8
108	Continuum characterization of novel pseudoelasticity of ZnO nanowires. Journal of the Mechanics and Physics of Solids, 2008, 56, 2473-2493.	2.3	7

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109	Electrochemical synthesis of Li-Mo-O compounds as novel and high performance anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 712, 555-559.	2.8	7
110	Indentation on a one-dimensional hexagonal quasi-crystal half-space by an elliptic indenter. <i>Meccanica</i> , 2019, 54, 1225-1243.	1.2	7
111	Ignition thresholds of aluminized HMX-based polymer-bonded explosives. <i>AIP Advances</i> , 2019, 9, .	0.6	7
112	Experimental method for dynamic residual strength characterisation of aircraft sandwich structures. <i>International Journal of Crashworthiness</i> , 2013, 18, 64-81.	1.1	6
113	Dynamic Fracture and Dissipation Behaviors of Concrete at the Mesoscale. <i>International Journal of Applied Mechanics</i> , 2015, 07, 1550038.	1.3	6
114	High-speed Digital Imaging and Computational Modeling of Hybrid Metal-Composite Plates Subjected to Water-based Impulsive Loading. <i>Experimental Mechanics</i> , 2016, 56, 545-567.	1.1	6
115	Multi-scale peridynamic modeling of dynamic fracture in concrete. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	6
116	Deformation-induced blueshift in emission spectrum of CdTe quantum dot composites. <i>Composites Part B: Engineering</i> , 2017, 120, 54-62.	5.9	6
117	Piezoelectric response of energetic composites under an electrostatic excitation. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	6
118	Characterization of Impact in Composite Laminates. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	5
119	Effect of viscoplasticity on ignition sensitivity of an HMX based PBX. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	5
120	Computational study of ignition behavior and hotspot dynamics of a potential class of aluminized explosives. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018, 26, 085004.	0.8	5
121	Computational Design of Three-Dimensional Multi-Constituent Material Microstructure Sets with Prescribed Statistical Constituent and Geometric Attributes. <i>Multiscale Science and Engineering</i> , 2020, 2, 7-19.	0.9	5
122	Prediction of Probabilistic Shock Initiation Thresholds of Energetic Materials Through Evolution of Thermal-Mechanical Dissipation and Reactive Heating. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	1.1	5
123	Modelling of micromechanical fracture using a cohesive finite element method. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	4
124	Thermal conductivity prediction for GaN nanowires from atomistic potential. <i>AIP Advances</i> , 2013, 3, .	0.6	4
125	Equivalent continuum for dynamically deforming atomistic particle systems. , 0, .		4
126	A Molecular Dynamics Simulation Framework for an Al+Fe ₂ O ₃ Reactive Metal Powder Mixture. <i>Materials Research Society Symposia Proceedings</i> , 2004, 821, 140.	0.1	3

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127	Microstructure-performance relations of ultra-high-performance concrete accounting for effect of alpha-quartz-to-coesite silica phase transformation. International Journal of Solids and Structures, 2013, 50, 1879-1896.	1.3	3
128	Structure and thermomechanical behavior of bent GaN nanowires. Computational Materials Science, 2014, 81, 524-529.	1.4	3
129	Size- and structure-dependence of thermal and mechanical behaviors of single-crystalline and polytypic superlattice ZnS nanowires. Journal of Applied Physics, 2015, 117, 214307.	1.1	3
130	Micromechanical Modeling of Mixed-Mode Crack Growth in Ceramic Composites. , 1999, , 174-200.		3
131	Molecular Dynamics Simulation of Shock Induced Detonation. AIP Conference Proceedings, 2004, , .	0.3	2
132	A Study of Shock-Wave Propagation in Single Crystalline fcc-Al and $\hat{1}\pm$ -Fe ₂ O ₃ and an Interface between Two Such Phases Using MD Simulations. Materials Research Society Symposia Proceedings, 2005, 896, 31.	0.1	2
133	Strength Analyses of Fe ₂ O ₃ +Al Nanocomposites Using Classical Molecular Dynamics. , 2005, , 439.		2
134	A Framework for Analyzing the Microstructure Level Thermomechanical Response Polymer Bonded Explosives. Materials Science Forum, 2011, 673, 21-33.	0.3	2
135	Energy dissipation in ultra-high performance fiber-reinforced concrete (UHPFRC) subjected to rapid loading. , 2012, , .		2
136	Time-Resolved Impact Response and Damage of Fiber-Reinforced Composite Laminates. , 0, .		2
137	Repeatable mechanical energy absorption of ZnO nanopillars. Materials Today Communications, 2021, 29, 102904.	0.9	2
138	A Multiscale Framework for Predicting Fracture Toughness of Polycrystalline Metals. Materials Performance and Characterization, 2014, 3, 20130064.	0.2	2
139	The Virial Stress Is Not a Measure of Mechanical Stress. Materials Research Society Symposia Proceedings, 2002, 731, 261.	0.1	1
140	Molecular Dynamics Modeling of Shock Wave Propagation in fcc-Al, $\hat{1}\pm$ -Fe ₂ O ₃ , and their Interfaces. AIP Conference Proceedings, 2006, , .	0.3	1
141	Multi-Physics Modeling of Fire-Induced Damage in High-Performance Concrete. International Journal of Multiphysics, 2014, 8, 101-122.	0.3	1
142	Microscopic modelling of ignition and burning for well-arranged energetic crystals in response to drop-weight impact. Journal of Physics: Conference Series, 2014, 500, 052051.	0.3	1
143	Ignition behavior of an aluminum-bonded explosive (ABX). AIP Conference Proceedings, 2017, , .	0.3	1
144	Thermo-Mechanical Response of an Additively Manufactured Energetic Material Simulant to Dynamic Loading. Journal of Dynamic Behavior of Materials, 2020, 6, 502-519.	1.1	1

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145	Modeling and Simulation of the Mechanical Response of Nanowires. , 2003, , 125-155.		1
146	Experimental Analysis of Dynamic Deformation and Damage in Composite Sandwich Structures Subjected to Underwater Impulsive Loads. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 275-286.	0.3	1
147	Post-Impact Behaviour of Polymeric Composites and the Effects of Salt Water Aging on Tensile Properties. Advanced Composites Letters, 1999, 8, 096369359900800.	1.3	0
148	An experimental characterization of the dynamic impact failure of mortar. AIP Conference Proceedings, 2000, , .	0.3	0
149	Special Issue on Nanomaterials and Nanomechanics. Journal of Engineering Materials and Technology, Transactions of the ASME, 2005, 127, 357-357.	0.8	0
150	Cohesive Finite Element Simulation of the Impact Response of Polymer Bonded Explosives. , 2009, , .		0
151	Dynamic Damage Tolerance for Aircraft Sandwich Structures: Experiments and Modeling. , 2011, , .		0
152	Prediction of Fracture Toughness via Microstructure-Level Simulations. , 2012, , .		0
153	Effect of Competing Mechanisms on Fracture Toughness of Polycrystalline Metals. , 2015, , .		0
154	Geometry and Size Effects in Response of Composite Structures Subjected to Water-Based Impulsive Loading. Springer Transactions in Civil and Environmental Engineering, 2018, , 443-470.	0.3	0
155	Characterization of Defect Nucleation and Propagation in Fe ₂ O ₃ +FCC-Al Nanocomposites During Uniaxial Tensile and Compressive Deformations. , 2006, , .		0
156	Thermomechanical Behavior of GaN Nanowires During Tensile Loading and Unloading. , 2012, , .		0
157	Effect of Structure on Response of a Three-Dimensional-Printed Photopolymer-Particulate Composite Under Intermediate Strain Rate Loading. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	1.1	0