

# Zhijia Wang

## List of Publications by Citations

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191  
papers

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ext. papers

5,488  
ext. citations

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#	Paper	IF	Citations
191	Deformation and failure of blast-loaded metallic sandwich panels. Experimental investigations. <i>International Journal of Impact Engineering</i> , <b>2008</b> , 35, 937-951	4	180
190	Dynamic response of sandwich structures with graded auxetic honeycomb cores under blast loading. <i>Composites Part B: Engineering</i> , <b>2016</b> , 106, 206-217	10	115
189	Superior high tensile elongation of a single-crystal CoCrFeNiAl <sub>0.3</sub> high-entropy alloy by Bridgman solidification. <i>Intermetallics</i> , <b>2014</b> , 54, 104-109	3.5	113
188	Experiments on curved sandwich panels under blast loading. <i>International Journal of Impact Engineering</i> , <b>2010</b> , 37, 960-970	4	93
187	Analytical investigation and optimal design of sandwich panels subjected to shock loading. <i>Materials &amp; Design</i> , <b>2009</b> , 30, 91-100		87
186	Dynamic crushing behavior of 3D closed-cell foams based on Voronoi random model. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 4281-4289		87
185	Finite element analysis of sandwich panels with stepwise graded aluminum honeycomb cores under blast loading. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 80, 1-12	8.4	81
184	The dynamic response of sandwich beams with open-cell metal foam cores. <i>Composites Part B: Engineering</i> , <b>2011</b> , 42, 1-10	10	81
183	Studies on the dynamic compressive properties of open-cell aluminum alloy foams. <i>Scripta Materialia</i> , <b>2006</b> , 54, 83-87	5.6	81
182	Dynamic behavior of aluminum honeycomb sandwich panels under air blast: Experiment and numerical analysis. <i>Composite Structures</i> , <b>2014</b> , 108, 1001-1008	5.3	79
181	Plastic Deformation, Failure and Energy Absorption of Sandwich Structures with Metallic Cellular Cores. <i>International Journal of Protective Structures</i> , <b>2010</b> , 1, 507-541	1.5	71
180	Response of aluminium corrugated sandwich panels under air blast loadings: Experiment and numerical simulation. <i>International Journal of Impact Engineering</i> , <b>2014</b> , 65, 79-88	4	69
179	Simultaneous enhancement of strength and ductility in a NiCoCrFe high-entropy alloy upon dynamic tension: Micromechanism and constitutive modeling. <i>International Journal of Plasticity</i> , <b>2020</b> , 124, 226-246	7.6	69
178	Dynamic response of sandwich spherical shell with graded metallic foam cores subjected to blast loading. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2014</b> , 56, 262-271	8.4	65
177	Some theoretical considerations on the dynamic response of sandwich structures under impulsive loading. <i>International Journal of Impact Engineering</i> , <b>2010</b> , 37, 625-637	4	65
176	Sandwich panels with layered graded aluminum honeycomb cores under blast loading. <i>Composite Structures</i> , <b>2017</b> , 173, 242-254	5.3	63
175	Large deformation of an auxetic structure in tension: Experiments and finite element analysis. <i>Composite Structures</i> , <b>2018</b> , 184, 92-101	5.3	62

174	Damping behavior of Al <sub>x</sub> CoCrFeNi high-entropy alloys by a dynamic mechanical analyzer. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 604, 331-339	5.7	61
173	Structural Response and Energy Absorption of Sandwich Panels with an Aluminium Foam Core under Blast Loading. <i>Advances in Structural Engineering</i> , <b>2008</b> , 11, 525-536	1.9	61
172	Dynamic response of cylindrical sandwich shells with metallic foam cores under blast loading. Numerical simulations. <i>Composite Structures</i> , <b>2013</b> , 99, 213-223	5.3	60
171	Dynamic response of functionally graded cellular materials based on the Voronoi model. <i>Composites Part B: Engineering</i> , <b>2016</b> , 85, 176-187	10	57
170	Microstructural features and tensile behaviors of the Al <sub>0.5</sub> CrCuFeNi <sub>2</sub> high-entropy alloys by cold rolling and subsequent annealing. <i>Materials and Design</i> , <b>2015</b> , 88, 1057-1062	8.1	57
169	Tribological Properties of AlCrCuFeNi <sub>2</sub> High-Entropy Alloy in Different Conditions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 3312-3321	2.3	57
168	Dynamic response of metallic lattice sandwich structures to impulsive loading. <i>International Journal of Impact Engineering</i> , <b>2012</b> , 43, 1-5	4	57
167	Compressive behavior of closed-cell aluminum alloy foams at medium strain rates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 2326-2330	5.3	55
166	Axial-impact buckling modes and energy absorption properties of thin-walled corrugated tubes with sinusoidal patterns. <i>Thin-Walled Structures</i> , <b>2015</b> , 94, 410-423	4.7	54
165	The structural response of clamped sandwich beams subjected to impact loading. <i>Composite Structures</i> , <b>2011</b> , 93, 1300-1308	5.3	53
164	On crushing response of the three-dimensional closed-cell foam based on Voronoi model. <i>Mechanics of Materials</i> , <b>2014</b> , 68, 85-94	3.3	52
163	Failure behaviors of reinforced concrete beams subjected to high impact loading. <i>Engineering Failure Analysis</i> , <b>2015</b> , 56, 233-243	3.2	51
162	Mechanical response and deformation behavior of Al <sub>0.6</sub> CoCrFeNi high-entropy alloys upon dynamic loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 727, 208-213	5.3	48
161	Strain rate effects on the dynamic mechanical properties of the AlCrCuFeNi <sub>2</sub> high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 649, 35-38	5.3	48
160	Surface Texture-Based Surface Treatments on Ti6Al4V Titanium Alloys for Tribological and Biological Applications: A Mini Review. <i>Materials</i> , <b>2018</b> , 11,	3.5	47
159	Effects of experimental variables on PMMA nano-indentation measurements. <i>Polymer Testing</i> , <b>2015</b> , 41, 1-6	4.5	45
158	Effect of cold rolling on the microstructure and mechanical properties of Al <sub>0.25</sub> CoCrFe <sub>1.25</sub> Ni <sub>1.25</sub> high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 645, 163-169	5.3	43
157	Energy absorption and failure mechanism of metallic cylindrical sandwich shells under impact loading. <i>Materials &amp; Design</i> , <b>2013</b> , 52, 470-480		42

156	An experimental study of the dynamic response of cylindrical sandwich shells with metallic foam cores subjected to blast loading. <i>International Journal of Impact Engineering</i> , <b>2014</b> , 71, 60-72	4	42
155	3D meso-scale modeling of reinforcement concrete with high volume fraction of randomly distributed aggregates. <i>Construction and Building Materials</i> , <b>2018</b> , 164, 350-361	6.7	41
154	Dynamic deformation behaviors and constitutive relations of an AlCoCr 1.5 Fe 1.5 NiTi 0.5 high-entropy alloy. <i>Scripta Materialia</i> , <b>2017</b> , 136, 15-19	5.6	40
153	Dynamic crushing behavior of random and functionally graded metal hollow sphere foams. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 561, 352-361	5.3	40
152	The dynamic response of sandwich panels with cellular metal cores to localized impulsive loading. <i>Composites Part B: Engineering</i> , <b>2016</b> , 94, 52-63	10	39
151	Tensile behavior of an auxetic structure: Analytical modeling and finite element analysis. <i>International Journal of Mechanical Sciences</i> , <b>2018</b> , 136, 143-154	5.5	38
150	Synergistic effect of different graphene-CNT heterostructures on mechanical and self-healing properties of thermoplastic polyurethane composites. <i>Materials and Design</i> , <b>2018</b> , 137, 438-445	8.1	36
149	Uniaxial and biaxial failure behaviors of aluminum alloy foams. <i>Composites Part B: Engineering</i> , <b>2014</b> , 61, 340-349	10	36
148	Surface damage mitigation of Ti6Al4V alloy via thermal oxidation for oil and gas exploitation application: characterization of the microstructure and evaluation of the surface performance. <i>RSC Advances</i> , <b>2017</b> , 7, 13517-13535	3.7	35
147	Novel Si-added CrCoNi medium entropy alloys achieving the breakthrough of strength-ductility trade-off. <i>Materials and Design</i> , <b>2021</b> , 197, 109202	8.1	35
146	Finite element simulation of metallic cylindrical sandwich shells with graded aluminum tubular cores subjected to internal blast loading. <i>International Journal of Mechanical Sciences</i> , <b>2015</b> , 96-97, 1-12	5.5	34
145	Effect of heat treatments on the crushing behaviour and energy absorbing performance of aluminium alloy foams. <i>Materials &amp; Design</i> , <b>2009</b> , 30, 977-982		31
144	Experimental study on the effects of specimen in-plane size on the mechanical behavior of aluminum hexagonal honeycombs. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 635, 23-35	5.3	30
143	In-plane compression of 3D-printed self-similar hierarchical honeycombs: Static and dynamic analysis. <i>Thin-Walled Structures</i> , <b>2020</b> , 157, 106990	4.7	30
142	Designing ductile CuZr-based metallic glass matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 682, 542-549	5.3	29
141	The mechanism of power-law scaling behavior by controlling shear bands in bulk metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 639, 663-670	5.3	27
140	Plasticity improvement for dendrite/metallic glass matrix composites by pre-deformation. <i>Materials and Design</i> , <b>2015</b> , 86, 266-271	8.1	26
139	Distinguished work-hardening capacity of a Ti-based metallic glass matrix composite upon dynamic loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 585, 277-280	5.3	26

138	Mechanical behavior and failure mode of woven carbon/epoxy laminate composites under dynamic compressive loading. <i>Composites Part B: Engineering</i> , <b>2014</b> , 60, 531-536	10	26
137	A lattice deformation based model of metallic lattice sandwich plates subjected to impulsive loading. <i>International Journal of Solids and Structures</i> , <b>2012</b> , 49, 2854-2862	3.1	26
136	Effect of laser surface texturing (LST) on tribological behavior of double glow plasma surface zirconizing coating on Ti6Al4V alloy. <i>Surface and Coatings Technology</i> , <b>2019</b> , 368, 97-109	4.4	25
135	Quasi-static and dynamic deformation behaviors of an in-situ Ti-based metallic glass matrix composite. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 640, 305-310	5.7	25
134	Blast response of gradient honeycomb sandwich panels with basalt fiber metal laminates as skins. <i>International Journal of Impact Engineering</i> , <b>2019</b> , 123, 126-139	4	25
133	3D mesoscale fracture analysis of concrete under complex loading. <i>Engineering Fracture Mechanics</i> , <b>2019</b> , 220, 106646	4.2	24
132	Response of metallic cylindrical sandwich shells subjected to projectile impact. Experimental investigations. <i>Composite Structures</i> , <b>2014</b> , 107, 36-47	5.3	24
131	Loading rate effect on yield surface of aluminum alloy foams. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 543, 193-199	5.3	24
130	Shear-compression failure behavior of PMMA at different loading rates. <i>Materials Letters</i> , <b>2013</b> , 109, 151-153	3.3	24
129	Determination of fracture parameters in center cracked circular discs of concrete under diametral loading: A numerical analysis and experimental results. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 85, 355-366	3.7	24
128	Analytical model of thin-walled corrugated tubes with sinusoidal patterns under axial impacting. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 128-129, 1-16	5.5	23
127	Plastic flows of in-situ metallic glass matrix composites upon dynamic loading. <i>Materials Letters</i> , <b>2014</b> , 119, 92-95	3.3	23
126	Sample size effect on the mechanical behavior of aluminum foam. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 151, 622-638	5.5	23
125	Surface damage mitigation of TC4 alloy via micro arc oxidation for oil and gas exploitation application: Characterizations of microstructure and evaluations on surface performance. <i>Applied Surface Science</i> , <b>2018</b> , 436, 467-476	6.7	23
124	In-situ fabrication of gradient titanium oxide ceramic coating on laser surface textured Ti6Al4V alloy with improved mechanical property and wear performance. <i>Vacuum</i> , <b>2020</b> , 176, 109327	3.7	22
123	An approximate theoretical analysis for clamped cylindrical sandwich shells with metallic foam cores subjected to impulsive loading. <i>Composites Part B: Engineering</i> , <b>2014</b> , 60, 150-157	10	22
122	Experimental investigation on the yield behavior of Nomex honeycombs under combined shear-compression. <i>Latin American Journal of Solids and Structures</i> , <b>2012</b> , 9, 515-530	1.4	22
121	Quasi-static failure behaviour of PMMA under combined shear-compression loading. <i>Polymer Testing</i> , <b>2015</b> , 42, 181-184	4.5	21

120	Deformation and failure of clamped shallow sandwich arches with foam core subjected to projectile impact. <i>Composites Part B: Engineering</i> , <b>2013</b> , 44, 330-338	10	21
119	Experimental investigation on the mechanical behavior of foamed concrete under uniaxial and triaxial loading. <i>Construction and Building Materials</i> , <b>2019</b> , 209, 41-51	6.7	20
118	Biomechanical analysis of the fixation systems for anterior column and posterior hemi-transverse acetabular fractures. <i>Acta Orthopaedica Et Traumatologica Turcica</i> , <b>2017</b> , 51, 248-253	1.3	19
117	Dynamic failure of basalt/epoxy laminates under blast Experimental observation. <i>International Journal of Impact Engineering</i> , <b>2017</b> , 102, 16-26	4	19
116	Surface Texturing-Plasma Nitriding Duplex Treatment for Improving Tribological Performance of AISI 316 Stainless Steel. <i>Materials</i> , <b>2016</b> , 9,	3.5	19
115	Mechanical properties and deformation behavior of dual-phase Al <sub>0.6</sub> CoCrFeNi high-entropy alloys with heterogeneous structure at room and cryogenic temperatures. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 816, 152663	5.7	19
114	The effects of non-uniform temperature distribution and locally distributed anisotropic properties on thermal buckling of laminated panels. <i>Composite Structures</i> , <b>2015</b> , 119, 610-619	5.3	18
113	Experimental investigation on yield behavior of PMMA under combined shear-compression loading. <i>Results in Physics</i> , <b>2016</b> , 6, 265-269	3.7	18
112	The Influence of Pelvic Ramus Fracture on the Stability of Fixed Pelvic Complex Fracture. <i>Computational and Mathematical Methods in Medicine</i> , <b>2015</b> , 2015, 790575	2.8	17
111	Quasi-static bending behavior of sandwich beams with thin-walled tubes as core. <i>International Journal of Mechanical Sciences</i> , <b>2015</b> , 103, 55-62	5.5	16
110	Dynamic failure of fibre-metal laminates under impact loading Experimental observations. <i>Journal of Reinforced Plastics and Composites</i> , <b>2016</b> , 35, 305-319	2.9	16
109	Quasi-static and dynamic experimental studies on the tensile strength and failure pattern of concrete and mortar discs. <i>Scientific Reports</i> , <b>2017</b> , 7, 15305	4.9	16
108	A numerical study on the impact behavior of foam-cored cylindrical sandwich shells subjected to normal/oblique impact. <i>Latin American Journal of Solids and Structures</i> , <b>2015</b> , 12, 2045-2060	1.4	16
107	Surface damage mitigation of titanium and its alloys via thermal oxidation: A brief review. <i>Reviews on Advanced Materials Science</i> , <b>2019</b> , 58, 132-146	4.8	15
106	Response of aluminum corrugated sandwich panels under foam projectile impact Experiment and numerical simulation. <i>Journal of Sandwich Structures and Materials</i> , <b>2017</b> , 19, 595-615	2.1	14
105	Preparation of titanizing coating on AISI 316 stainless steel by pack cementation to mitigate surface damage: Estimations of corrosion resistance and tribological behavior. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 129, 387-400	3.9	14
104	Ultra-high strain-rate strengthening in ductile refractory high entropy alloys upon dynamic loading. <i>Intermetallics</i> , <b>2020</b> , 121, 106699	3.5	14
103	Effects of strain rate on PMMA failure behavior. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	14

102	Improved plasticity of bulk metallic glasses by electrodeposition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 615, 240-246	5.3	14
101	Crack Identification in Stepped Cantilever Beam Combining Wavelet Analysis with Transform Matrix. <i>Acta Mechanica Solida Sinica</i> , <b>2009</b> , 22, 360-368	2	14
100	Biomechanical Comparison of Modified TARP Technique Versus Modified Goel Technique for the Treatment of Basilar Invagination: A Finite Element Analysis. <i>Spine</i> , <b>2016</b> , 41, E459-66	3.3	14
99	Dynamic crushing behavior of open-cell aluminum foam with negative Poisson's ratio. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	13
98	Hollow SnNi@PEO nanospheres as anode materials for lithium ion batteries. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 15290-15298	6.7	13
97	Quasi-static and dynamic compression behaviors of metallic glass matrix composites. <i>Intermetallics</i> , <b>2015</b> , 60, 66-71	3.5	13
96	Effect of loading rate on the compressive properties of open-cell metal foams. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 592, 221-229	5.3	13
95	Temperature Effects on Tensile and Compressive Mechanical Behaviors of C-S-H Structure via Atomic Simulation. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-6	3.2	13
94	Dynamic crushing of uniform and density graded cellular structures based on the circle arc model. <i>Latin American Journal of Solids and Structures</i> , <b>2015</b> , 12, 1102-1125	1.4	13
93	REVIEW ON IMPROVING WEAR AND CORROSION RESISTANCE OF STEELS VIA PLASMA ELECTROLYTIC SATURATION TECHNOLOGY. <i>Surface Review and Letters</i> , <b>2016</b> , 23, 1630002	1.1	13
92	Investigation on the yield behavior of AZ91 magnesium alloy. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 738, 79-88	5.7	13
91	Large deflection behavior of circular sandwich plates with metal foam-core. <i>European Journal of Mechanics, A/Solids</i> , <b>2016</b> , 55, 57-66	3.7	12
90	Mechanical properties of cured isotropic conductive adhesive (ICA) under hygrothermal aging investigated by micro-indentation. <i>International Journal of Solids and Structures</i> , <b>2017</b> , 122-123, 81-90	3.1	12
89	Validation and Investigation on the Mechanical Behavior of Concrete Using a Novel 3D Mesoscale Method. <i>Materials</i> , <b>2019</b> , 12,	3.5	12
88	Improved mechanical performance of graphene oxide based artificial nacre composites by regulating the micro-laminated structure and interface bonding. <i>Composites Science and Technology</i> , <b>2019</b> , 179, 63-68	8.6	12
87	Experimental study of blast mitigation by foamed concrete. <i>International Journal of Protective Structures</i> , <b>2016</b> , 7, 179-192	1.5	12
86	A combined surface treatment of surface texturing-double glow plasma surface titanizing on AISI 316 stainless steel to combat surface damage: Comparative appraisals of corrosion resistance and wear resistance. <i>Applied Surface Science</i> , <b>2019</b> , 493, 747-765	6.7	12
85	Predicting burst sizes in amorphous alloys during plastic flows. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 609, 222-225	5.3	12

84	Pulse Shaper and Dynamic Compressive Property Investigation on Ice Using a Large-Sized Modified Split Hopkinson Pressure Bar. <i>Latin American Journal of Solids and Structures</i> , <b>2016</b> , 13, 391-406	1.4	12
83	Random Vibration Control of Laminated Composite Plates with Piezoelectric Fiber Reinforced Composites. <i>Acta Mechanica Solida Sinica</i> , <b>2016</b> , 29, 316-327	2	12
82	Experimental, numerical, and theoretical studies of the response of short cylindrical stainless steel tubes under lateral air blast loading. <i>International Journal of Impact Engineering</i> , <b>2019</b> , 124, 48-60	4	12
81	Dynamic response of Kevlar® 29/epoxy laminates under projectile impact-experimental investigation. <i>Mechanics of Advanced Materials and Structures</i> , <b>2017</b> , 24, 114-121	1.8	11
80	A pressure-dependent phenomenological constitutive model for transversely isotropic foams. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 120, 237-248	5.5	11
79	Dynamic response of aluminum honeycomb sandwich panels under foam projectile impact. <i>Mechanics of Advanced Materials and Structures</i> , <b>2018</b> , 25, 637-646	1.8	11
78	Effect of defects on creep behavior of cellular materials. <i>Materials Letters</i> , <b>2014</b> , 136, 37-40	3.3	11
77	Experimental and numerical studies of the anti-penetration performance of sandwich panels with aluminum foam cores. <i>Acta Mechanica Solida Sinica</i> , <b>2015</b> , 28, 735-746	2	11
76	Experimental investigation on the yield loci of PA66. <i>Polymer Testing</i> , <b>2016</b> , 51, 148-150	4.5	11
75	Excellent plasticity of a new Ti-based metallic glass matrix composite upon dynamic loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 677, 376-383	5.3	11
74	Electrochemical performance and morphological evolution of hollow Sn microspheres. <i>Solid State Ionics</i> , <b>2018</b> , 325, 120-127	3.3	11
73	Ballistic resistance and energy absorption of honeycomb structures filled with reactive powder concrete prisms. <i>Journal of Sandwich Structures and Materials</i> , <b>2017</b> , 19, 544-571	2.1	10
72	Different deformation behaviors of two in-situ Ti-based metallic glass matrix composites upon quasi-static and dynamic compressions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 639, 717-723	5.3	10
71	A local mesh replacement method for modeling near-interfacial crack growth in 2D composite structures. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2015</b> , 75, 70-77	3.7	10
70	Strengthening of an Al <sub>0.45</sub> CoCrFeNi high-entropy alloy via in situ fabricated duplex-structured composites. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 7894-7909	4.3	10
69	Strain-rate-sensitive mechanical response, twinning, and texture features of NiCoCrFe high-entropy alloy: Experiments, multi-level crystal plasticity and artificial neural networks modeling. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 845, 155911	5.7	10
68	Study on the penetration performance of concept projectile for high-speed penetration (CPHP). <i>International Journal of Impact Engineering</i> , <b>2016</b> , 94, 1-12	4	10
67	Plasticity enhancement in NiB amorphous alloy/Ni/Zr-based metallic glass composites with a sandwich structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 643, 175-182	5.3	9



66	Dynamic blast loading response of sandwich beam with origami-inspired core. <i>Results in Physics</i> , <b>2018</b> , 10, 946-955	3.7	9
65	Shear softening of Ta-containing metallic glass matrix composites upon dynamic loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 704, 322-328	5.3	9
64	A numerical simulation of metallic cylindrical sandwich shells subjected to air blast loading. <i>Latin American Journal of Solids and Structures</i> , <b>2013</b> , 10, 631-645	1.4	9
63	The mechanical response of metallic sandwich beams under foam projectile impact loading. <i>Latin American Journal of Solids and Structures</i> , <b>2011</b> , 8, 107-120	1.4	9
62	Biomechanical Role of the C1 Lateral Mass Screws in Occipitoatlantoaxial Fixation: A Finite Element Analysis. <i>Spine</i> , <b>2016</b> , 41, E1312-E1318	3.3	9
61	Numerical investigations on the effect of reinforcement on penetration resistance of concrete slabs using a 3D meso-scale method. <i>Construction and Building Materials</i> , <b>2018</b> , 188, 793-808	6.7	9
60	Underbody blast effect on the pelvis and lumbar spine: A computational study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 79, 9-19	4.1	8
59	Simulating Initial and Progressive Failure of Open-Hole Composite Laminates under Tension. <i>Applied Composite Materials</i> , <b>2016</b> , 23, 1209-1218	2	8
58	Multiscale finite element analyses on mechanical properties of graphene-reinforced composites. <i>Mechanics of Advanced Materials and Structures</i> , <b>2019</b> , 26, 1735-1742	1.8	8
57	Investigation on the yield behaviour and macroscopic phenomenological constitutive law of PA66. <i>Polymer Testing</i> , <b>2018</b> , 69, 563-582	4.5	8
56	Structural Degradation of Cu Current Collector During Electrochemical Cycling of Sn-Based Lithium-Ion Batteries. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 7543-7550	1.9	7
55	Energy-absorbing performance of graded Voronoi foams. <i>Journal of Cellular Plastics</i> , <b>2019</b> , 55, 589-613	1.5	7
54	Performance of concrete targets mixed with coarse aggregates against rigid projectile impact. <i>International Journal of Impact Engineering</i> , <b>2020</b> , 141, 103565	4	7
53	Role of local chemical fluctuations in the shock dynamics of medium entropy alloy CoCrNi. <i>Acta Materialia</i> , <b>2021</b> , 221, 117380	8.4	7
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