

Guozheng Kang

List of Publications by Year in Descending Order

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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.

309
papers

6,877
citations

42
h-index

66
g-index

327
ext. papers

8,460
ext. citations

4.1
avg. IF

6.68
L-index

#	Paper	IF	Citations
309	Application of cyclic plasticity for modeling ratcheting in metals 2022 , 325-355		
308	Dynamic constitutive model of U75VG rail flash-butt welded joint and its application in wheel-rail transient rolling contact simulation. <i>Engineering Failure Analysis</i> , 2022 , 134, 106078	3.2	2
307	Crystal plasticity modeling of the multiaxial ratchetting of extruded AZ31 Mg alloy. <i>International Journal of Plasticity</i> , 2022 , 152, 103242	7.6	0
306	Phase field study on the microscopic mechanism of the cyclic degradation of shape memory effect in nano-polycrystalline NiTi shape memory alloys. <i>European Journal of Mechanics, A/Solids</i> , 2022 , 104544	3.7	0
305	Size-dependent yield stress in ultrafine-grained polycrystals: A multiscale discrete dislocation dynamics study. <i>International Journal of Plasticity</i> , 2022 , 149, 103183	7.6	0
304	Temperature effect on tensile behavior of an interstitial high entropy alloy: Crystal plasticity modeling. <i>International Journal of Plasticity</i> , 2022 , 150, 103201	7.6	4
303	Laser shock peened Ti-6Al-4 V alloy: Experiments and modeling. <i>International Journal of Mechanical Sciences</i> , 2022 , 213, 106874	5.5	2
302	Experimental study and life prediction on fatigue failure of NiTi shape memory alloy under multi-axial one-way shape memory cyclic loadings. <i>International Journal of Fatigue</i> , 2022 , 155, 106609	5	2
301	A comprehensive study on the effective thermal conductivity of random hybrid polymer composites. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 182, 121936	4.9	2
300	A novel deep learning approach of multiaxial fatigue life-prediction with a self-attention mechanism characterizing the effects of loading history and varying temperature. <i>International Journal of Fatigue</i> , 2022 , 106851	5	1
299	A two-scale thermo-mechanically coupled model for anomalous martensite transformation and elastocaloric switching effect of shape memory alloy. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 104893	5	2
298	Multiple-mechanism and microstructure-based crystal plasticity modeling for cyclic shear deformation of TRIP steel. <i>International Journal of Mechanical Sciences</i> , 2022 , 107269	5.5	1
297	Thermo-mechanically coupled sliding contact shakedown analysis of functionally graded coating-substrate structures. <i>International Journal of Mechanical Sciences</i> , 2022 , 222, 107241	5.5	2
296	Improved elastocaloric effect of NiTi shape memory alloys via microstructure engineering: A phase field simulation. <i>International Journal of Mechanical Sciences</i> , 2022 , 222, 107256	5.5	0
295	Experimental study on uniaxial ratchetting of VHB 4910 dielectric elastomer. <i>Polymer Testing</i> , 2022 , 109, 107557	4.5	0
294	Semi-analytical and numerical models for magnetic field induced magneto-elastocaloric cooling in the multiferroic composite system. <i>Composite Structures</i> , 2022 , 289, 115409	5.3	
293	The effect of microstructure evolution on the ratchetting-fatigue interaction of carbide-free bainite rail steels under different heat-treatment conditions. <i>International Journal of Fatigue</i> , 2022 , 160, 106872	5	1

292	Cyclic degeneration of elastocaloric effect for NiTi shape memory alloy: Experimental observation and constitutive model. <i>International Journal of Solids and Structures</i> , 2022 , 248, 111638	3.1	1
291	A circumferential SH wave piezoelectric transducer array for damage detection in large-diameter pipes. <i>Journal of Physics: Conference Series</i> , 2022 , 2184, 012030	0.3	
290	Effect of hydrogen on super-elastic behavior of NiTi shape memory alloy wires: Experimental observation and diffusional-mechanically coupled constitutive model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022 , 132, 105276	4.1	0
289	Phase field simulation on the martensite transformation and reorientation toughening behaviors of single crystal NiTi shape memory alloy: Effects of crystalline orientation and temperature. <i>Engineering Fracture Mechanics</i> , 2022 , 270, 108585	4.2	
288	Molecular dynamics simulations on the intergranular crack propagation of magnesium bicrystals. <i>Computational Materials Science</i> , 2021 , 111058	3.2	1
287	Elastic shakedown analysis of two-dimensional thermo-elastic rolling/sliding contact for a functionally graded coating/substrate structure with arbitrarily varying thermo-elastic properties. <i>Composite Structures</i> , 2021 , 280, 114891	5.3	1
286	Recent Progress on Wear-Resistant Materials: Designs, Properties, and Applications. <i>Advanced Science</i> , 2021 , 8, e2003739	13.6	56
285	Hyperelastic model for polyacrylamide-gelatin double network shape-memory hydrogels. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021 , 37, 748-756	2	1
284	Excitation and manipulation of guided shear-horizontal plane wave using elastic metasurfaces. <i>Smart Materials and Structures</i> , 2021 , 30, 055013	3.4	2
283	Experimental study on uniaxial ratcheting-fatigue interaction of extruded AZ31 magnesium alloy with different plastic deformation mechanisms. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	2
282	Numerical study on the ratcheting performance of rail flash butt welds in heavy haul operations. <i>International Journal of Mechanical Sciences</i> , 2021 , 199, 106434	5.5	4
281	In-situ synchrotron X-ray tomography investigation of damage mechanism of an extruded magnesium alloy in uniaxial low-cycle fatigue with ratcheting. <i>Acta Materialia</i> , 2021 , 211, 116881	8.4	13
280	Effects of high entropy and twin boundary on the nanoindentation of CoCrNiFeMn high-entropy alloy: A molecular dynamics study. <i>Computational Materials Science</i> , 2021 , 195, 110495	3.2	6
279	Numerical investigation on the rolling contact wear and fatigue of laser dispersed quenched U71Mn rail. <i>International Journal of Fatigue</i> , 2021 , 143, 106010	5	6
278	Molecular dynamics simulation on the cyclic deformation of magnesium single crystals. <i>Computational Materials Science</i> , 2021 , 186, 110003	3.2	10
277	Secondary phase induced cracking initiation of high-speed railway gearbox. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 799, 140064	5.3	2
276	Dislocation-grain boundary interaction-based discrete dislocation dynamics modeling and its application to bicrystals with different misorientations. <i>Acta Materialia</i> , 2021 , 202, 88-98	8.4	20
275	A machine-learning fatigue life prediction approach of additively manufactured metals. <i>Engineering Fracture Mechanics</i> , 2021 , 242, 107508	4.2	47

274	Low-cycle electro-mechanical fatigue of dielectric elastomers: Pure-shear experiments and life-prediction model. <i>International Journal of Fatigue</i> , 2021 , 148, 106220	5	0
273	Phase field simulation on the super-elasticity, elastocaloric and shape memory effect of geometrically graded nano-polycrystalline NiTi shape memory alloys. <i>International Journal of Mechanical Sciences</i> , 2021 , 201, 106462	5.5	6
272	Experimental and modeling investigation on the viscoelastic-viscoplastic deformation of polyamide 12 printed by Multi Jet Fusion. <i>International Journal of Plasticity</i> , 2021 , 143, 103029	7.6	3
271	The tension-compression behavior of gradient structured materials: A deformation-mechanism-based strain gradient plasticity model. <i>Mechanics of Materials</i> , 2021 , 159, 103942	7.3	5
270	New incremental secant linearization method for mean-field homogenization approach of elasto-viscoplastic microscopic heterogeneous materials. <i>Composite Structures</i> , 2021 , 271, 114125	5.3	0
269	A novel method of multiaxial fatigue life prediction based on deep learning. <i>International Journal of Fatigue</i> , 2021 , 151, 106356	5	15
268	Phase field study on the microscopic mechanism of grain size dependent cyclic degradation of super-elasticity and shape memory effect in nano-polycrystalline NiTi alloys. <i>International Journal of Plasticity</i> , 2021 , 145, 103075	7.6	5
267	Size-dependent plasticity of hetero-structured laminates: A constitutive model considering deformation heterogeneities. <i>International Journal of Plasticity</i> , 2021 , 145, 103063	7.6	9
266	A multiscale magneto-thermo-mechanically coupled model for ultra-low-field induced magneto-elastocaloric effect in magnetostrictive-shape memory alloy composite system. <i>International Journal of Engineering Science</i> , 2021 , 168, 103539	5.7	2
265	Molecular dynamics simulations on one-way shape memory effect of nanocrystalline NiTi shape memory alloy and its cyclic degeneration. <i>International Journal of Mechanical Sciences</i> , 2021 , 211, 106777	5.5	2
264	Cyclic Plasticity of CoCrFeMnNi High-Entropy Alloy (HEA): A Molecular Dynamics Simulation. <i>International Journal of Applied Mechanics</i> , 2021 , 13, 2150006	2.4	2
263	Cyclic plasticity of an interstitial high-entropy alloy: experiments, crystal plasticity modeling, and simulations. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 142, 103971	5	17
262	Life prediction for rate-dependent low-cycle fatigue of PA6 polymer considering ratchetting: Semi-empirical model and neural network based approach. <i>International Journal of Fatigue</i> , 2020 , 136, 105619	5	22
261	Review on fatigue life prediction models of welded joint. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2020 , 36, 701-726	2	16
260	A new damage-coupled cyclic plastic model for whole-life ratchetting of heat-treated U75V steel. <i>International Journal of Damage Mechanics</i> , 2020 , 29, 1397-1415	3	2
259	A low-cycle fatigue life-prediction model for SUS301L stainless steel butt-welded joint with considering ratchetting. <i>International Journal of Fatigue</i> , 2020 , 139, 105777	5	4
258	Modeling uniaxial ratchetting of magnesium alloys by a new crystal plasticity considering dislocation slipping, twinning and detwinning mechanisms. <i>International Journal of Mechanical Sciences</i> , 2020 , 179, 105660	5.5	6
257	A crystal plasticity based constitutive model accounting for R phase and two-step phase transition of polycrystalline NiTi shape memory alloys. <i>International Journal of Solids and Structures</i> , 2020 , 193-194, 503-526	3.1	5

256	Phase-field theory based finite element simulation on thermo-mechanical cyclic deformation of polycrystalline super-elastic NiTi shape memory alloy. <i>Computational Materials Science</i> , 2020 , 184, 109899 ^{3.2}	10
255	Crystal plasticity finite element analysis of gradient nanostructured TWIP steel. <i>International Journal of Plasticity</i> , 2020 , 130, 102703	7.6 26
254	Ratcheting behaviour of flash butt welds in heat-treated hypereutectoid steel rails under uniaxial and biaxial cyclic loadings. <i>International Journal of Mechanical Sciences</i> , 2020 , 176, 105539	5.5 9
253	Circumferential SH Wave Piezoelectric Transducer System for Monitoring Corrosion-Like Defect in Large-Diameter Pipes. <i>Sensors</i> , 2020 , 20,	3.8 11
252	An Elasto-plastic Contact Solving Method for Two Spheres. <i>Acta Mechanica Solida Sinica</i> , 2020 , 33, 612-634	1
251	Achieving work hardening by forming boundaries on the nanoscale in a Ti-based metallic glass matrix composite. <i>Journal of Materials Science and Technology</i> , 2020 , 50, 192-203	9.1 7
250	An electro-mechanically coupled visco-hyperelastic-plastic constitutive model for cyclic deformation of dielectric elastomers. <i>Mechanics of Materials</i> , 2020 , 150, 103575	3.3 7
249	Experimental investigation on electro-mechanically coupled cyclic deformation of laterally constrained dielectric elastomer. <i>Polymer Testing</i> , 2020 , 81, 106220	4.5 5
248	Phase field simulation on the cyclic degeneration of one-way shape memory effect of NiTi shape memory alloy single crystal. <i>International Journal of Mechanical Sciences</i> , 2020 , 168, 105303	5.5 13
247	Molecular dynamics simulations on nanocrystalline super-elastic NiTi shape memory alloy by addressing transformation ratchetting and its atomic mechanism. <i>International Journal of Plasticity</i> , 2020 , 125, 374-394	7.6 22
246	A uniaxial tensile behavior based fatigue crack growth model. <i>International Journal of Fatigue</i> , 2020 , 131, 105324	5 18
245	Modeling the anisotropic elastocaloric effect of textured NiMnGa ferromagnetic shape memory alloys. <i>International Journal of Solids and Structures</i> , 2020 , 191-192, 509-528	3.1 3
244	Experimental study on rate-dependent uniaxial whole-life ratchetting and fatigue behavior of polyamide 6. <i>International Journal of Fatigue</i> , 2020 , 132, 105402	5 5
243	Phase field simulation on the grain size dependent super-elasticity and shape memory effect of nanocrystalline NiTi shape memory alloys. <i>International Journal of Engineering Science</i> , 2020 , 156, 103373 ^{5.7}	20
242	Modeling the two-way shape memory and elastocaloric effects of bamboo-grained oligocrystalline shape memory alloy microwire. <i>Acta Materialia</i> , 2020 , 198, 10-24	8.4 6
241	Experimental study on whole-life one-way shape memory cyclic degradation and fatigue failure of NiTi shape memory alloy. <i>Materials Today Communications</i> , 2020 , 25, 101621	2.5 5
240	Experimental study on the whole-life heterogeneous ratchetting and ratchetting-fatigue interaction of SUS301L stainless steel butt-welded joint. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 36-50	3 5
239	Multiple mechanism based constitutive modeling of gradient nanograined material. <i>International Journal of Plasticity</i> , 2020 , 125, 314-330	7.6 45

238	Crystal-Plasticity-Based Dynamic Constitutive Model of AZ31B Magnesium Alloy at Elevated Temperature and with Explicit Plastic-Strain-Rate Control. <i>Acta Mechanica Solida Sinica</i> , 2020 , 33, 31-50	2	1
237	Forced vibration analysis of blade after selective laser shock processing based on Timoshenko beam theory. <i>Composite Structures</i> , 2020 , 243, 112249	5.3	6
236	Plastic deformation of a film-substrate with inhomogeneous inclusions under contact loading. <i>Acta Mechanica</i> , 2019 , 230, 4463-4479	2.1	1
235	Dynamic Photomask-Assisted Direct Ink Writing Multimaterial for Multilevel Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019 , 29, 1903568	15.6	42
234	Thermo-elastic-viscoplastic-damage model for self-heating and mechanical behavior of thermoplastic polymers. <i>International Journal of Plasticity</i> , 2019 , 121, 227-243	7.6	21
233	Rate-dependent transformation ratcheting-fatigue interaction of super-elastic NiTi alloy under uniaxial and torsional loadings: Experimental observation. <i>International Journal of Fatigue</i> , 2019 , 127, 470-478	5	14
232	In Situ Observation on Rate-Dependent Strain Localization of Thermo-Induced Shape Memory Polyurethane. <i>Polymers</i> , 2019 , 11,	4.5	7
231	A 3D thermo-mechanically coupled model for describing rate-dependent super-elastic degeneration of NiTi shape memory alloys. <i>Mechanics Research Communications</i> , 2019 , 99, 32-41	2.2	3
230	First-order pinning interaction in type-II superconductors with Ginzburg-Landau descriptions. <i>European Physical Journal B</i> , 2019 , 92, 1	1.2	
229	Mean-field homogenization of elasto-viscoplastic composites based on a new mapping-tangent linearization approach. <i>Science China Technological Sciences</i> , 2019 , 62, 736-746	3.5	2
228	A micromechanical constitutive model for unusual temperature-dependent deformation of Mg/NiTi composites. <i>International Journal of Solids and Structures</i> , 2019 , 170, 38-52	3.1	3
227	Modelling the stress-induced multi-step martensite transformation of single crystal NiMnGa ferromagnetic shape memory alloys. <i>Mechanics of Materials</i> , 2019 , 134, 204-218	3.3	3
226	A Review of Magneto-Elastic Interaction and Its Theoretical Descriptions in Type-II Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 797-803	1.5	
225	Torsional whole-life transformation ratchetting under pure-torsional and non-proportional multiaxial cyclic loadings of NiTi SMA at human-body temperature: Experimental observations and life-prediction model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 94, 267-278	4.1	2
224	Modeling the martensite reorientation and resulting zero/negative thermal expansion of shape memory alloys. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 127, 295-331	5	20
223	A meso-mechanical constitutive model of bulk metallic glass composites considering the local failure of matrix. <i>International Journal of Plasticity</i> , 2019 , 115, 238-267	7.6	8
222	Effect of crystalline content on ratchetting of ultra-high molecular weight polyethylene polymers: Experimental investigation and constitutive model. <i>Mechanics of Materials</i> , 2019 , 133, 37-54	3.3	9
221	Phase field modeling to transformation induced plasticity in super-elastic NiTi shape memory alloy single crystal. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 045001	2	13

220	The Kitagawa-Takahashi fatigue diagram to hybrid welded AA7050 joints via synchrotron X-ray tomography. <i>International Journal of Fatigue</i> , 2019 , 125, 210-221	5	23
219	Phase field simulation to one-way shape memory effect of NiTi shape memory alloy single crystal. <i>Computational Materials Science</i> , 2019 , 161, 276-292	3.2	14
218	Three-dimensional constitutive model for magneto-mechanical deformation of NiMnGa ferromagnetic shape memory alloy single crystals. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019 , 35, 563-588	2	4
217	Experimental study on pure-shear-like cyclic deformation of VHB 4910 dielectric elastomer. <i>Journal of Polymer Research</i> , 2019 , 26, 1	2.7	11
216	Effects of twin boundary orientation on plasticity of bicrystalline copper micropillars: A discrete dislocation dynamics simulation study. <i>Acta Materialia</i> , 2019 , 176, 289-296	8.4	24
215	Effect of charging hydrogen on the tensile properties of A7N01 aluminum alloy friction stir welded joints. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1940043	1.1	1
214	Damage Tolerance Assessment of a Brake Unit Bracket for High-Speed Railway Welded Bogie Frames. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2019 , 32,	2.5	12
213	Numerical study on toughening mechanism of bulk metallic glass composites from martensite transformation of toughening phase. <i>Journal of Non-Crystalline Solids</i> , 2019 , 506, 88-97	3.9	6
212	Dislocation mechanism based size-dependent crystal plasticity modeling and simulation of gradient nano-grained copper. <i>International Journal of Plasticity</i> , 2019 , 113, 52-73	7.6	69
211	High fatigue life and cooling efficiency of NiTi shape memory alloy under cyclic compression. <i>Scripta Materialia</i> , 2019 , 159, 62-67	5.6	36
210	Analytical model of friction behavior during polymer scratching with conical tip. <i>Friction</i> , 2019 , 7, 466-478	3.6	7
209	A new microplane model for non-proportionally multiaxial deformation of shape memory alloys addressing both the martensite transformation and reorientation. <i>International Journal of Mechanical Sciences</i> , 2019 , 152, 63-80	5.5	5
208	Theory of adhesive contact on multi-ferroic composite materials: Spherical indenter. <i>International Journal of Engineering Science</i> , 2019 , 134, 77-116	5.7	10
207	Thermal activation based constitutive model for high-temperature dynamic deformation of AZ31B magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 743, 24-31	5.3	5
206	Theory of dislocation loops in multilayered anisotropic solids with magneto-electro-elastic couplings. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 125, 440-471	5	11
205	Deformation mechanisms based constitutive modelling and strength-ductility mapping of gradient nano-grained materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 400-408	5.3	24
204	Experimental investigation on temperature-dependent uniaxial ratchetting of AZ31B magnesium alloy. <i>International Journal of Fatigue</i> , 2019 , 120, 33-45	5	12
203	A micromechanical constitutive model for grain size dependent thermo-mechanically coupled inelastic deformation of super-elastic NiTi shape memory alloy. <i>International Journal of Plasticity</i> , 2018 , 105, 99-127	7.6	42

202	A Multi-mechanism Model Describing Reorientation and Reorientation-Induced Plasticity of NiTi Shape Memory Alloy. <i>Acta Mechanica Solida Sinica</i> , 2018 , 31, 445-458	2	8
201	An equivalent local constitutive model for grain size dependent deformation of NiTi polycrystalline shape memory alloys. <i>International Journal of Mechanical Sciences</i> , 2018 , 138-139, 34-41	5.5	15
200	On the residual life assessment of high-speed railway axles due to induction hardening. <i>International Journal of Rail Transportation</i> , 2018 , 6, 218-232	2.1	34
199	High-Speed 3D Printing of High-Performance Thermosetting Polymers via Two-Stage Curing. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700809	4.8	92
198	Fabrication of tough epoxy with shape memory effects by UV-assisted direct-ink write printing. <i>Soft Matter</i> , 2018 , 14, 1879-1886	3.6	86
197	Negative and Zero Thermal Expansion NiTi Superelastic Shape Memory Alloy by Microstructure Engineering. <i>Shape Memory and Superelasticity</i> , 2018 , 4, 158-164	2.8	2
196	Numerical simulation on the deformation behaviors of bulk metallic glass composites under uniaxial tension and compression. <i>Composite Structures</i> , 2018 , 187, 411-428	5.3	14
195	A variable-frequency bidirectional shear horizontal (SH) wave transducer based on dual face-shear (d) piezoelectric wafers. <i>Ultrasonics</i> , 2018 , 89, 13-21	3.5	20
194	Experimental and numerical investigations of evaluation criteria and material parameters' coupling effect on polypropylene scratch. <i>Polymer Engineering and Science</i> , 2018 , 58, 118-122	2.3	7
193	Atomistic study on the super-elasticity of single crystal bulk NiTi shape memory alloy under adiabatic condition. <i>Computational Materials Science</i> , 2018 , 142, 38-46	3.2	18
192	Investigation on the Anisotropic Transformation Surfaces of Super-Elastic NiTi Shape Memory Alloys Under Multiaxial Cyclic Loading Conditions. <i>Acta Mechanica Solida Sinica</i> , 2018 , 31, 744-757	2	5
191	Experimental study on uniaxial ratchetting-fatigue interaction of polyamide-6. <i>Polymer Testing</i> , 2018 , 69, 545-555	4.5	8
190	Uniaxial Ratchetting of Filled Rubber: Experiments and Damage-Coupled Hyper-Viscoelastic-Plastic Constitutive Model. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018 , 85,	2.7	5
189	A micromechanical model for the grain size dependent super-elasticity degeneration of NiTi shape memory alloys. <i>Mechanics of Materials</i> , 2018 , 125, 35-51	3.3	23
188	A failure mechanism based constitutive model for bulk metallic glass. <i>Mechanics of Materials</i> , 2018 , 125, 52-69	3.3	12
187	On the fatigue performance and residual life of intercity railway axles with inside axle boxes. <i>Engineering Fracture Mechanics</i> , 2018 , 197, 176-191	4.2	47
186	Probabilistic fatigue assessment for high-speed railway axles due to foreign object damages. <i>International Journal of Fatigue</i> , 2018 , 117, 90-100	5	49
185	Phase field modeling for cyclic phase transition of NiTi shape memory alloy single crystal with super-elasticity. <i>Computational Materials Science</i> , 2018 , 143, 212-224	3.2	21

184	Axisymmetric thermo-elastic field in an infinite one-dimensional hexagonal quasi-crystal space containing a penny-shaped crack under anti-symmetric uniform heat fluxes. <i>Engineering Fracture Mechanics</i> , 2018 , 190, 74-92	4.2	11
183	Indentation on a transversely isotropic half-space of multiferroic composite medium with a circular contact region. <i>International Journal of Engineering Science</i> , 2018 , 123, 236-289	5.7	17
182	Ginzburg-Landau Theory for Magneto-Elastic Interaction and Magnetization in Type-II Superconductors. <i>Annalen Der Physik</i> , 2018 , 530, 1800266	2.6	2
181	Fatigue Crack Growth in Cold-Rolled and Annealed Polycrystalline Superelastic NiTi Alloys. <i>Acta Mechanica Sinica</i> , 2018 , 31, 599-607	2	4
180	A Thermo-Magneto-Mechanically Coupled Constitutive Model of Magnetic Shape Memory Alloys. <i>Acta Mechanica Sinica</i> , 2018 , 31, 535-556	2	3
179	Atomistic study on the super-elasticity of nanocrystalline NiTi shape memory alloy subjected to a cyclic deformation. <i>Computational Materials Science</i> , 2018 , 152, 85-92	3.2	26
178	Thermo-Mechanically Coupled Thermo-Elasto-Visco-Plastic Modeling of Thermo-Induced Shape Memory Polyurethane at Finite Deformation. <i>Acta Mechanica Sinica</i> , 2018 , 31, 141-160	2	8
177	A macroscopic multi-mechanism based constitutive model for the thermo-mechanical cyclic degeneration of shape memory effect of NiTi shape memory alloy. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017 , 33, 619-634	2	14
176	Molecular dynamics simulations to the pseudo-elasticity of NiTi shape memory alloy nano-pillar subjected to cyclic compression. <i>Computational Materials Science</i> , 2017 , 131, 132-138	3.2	21
175	A finite cyclic elasto-plastic constitutive model to improve the description of cyclic stress-strain hysteresis loops. <i>International Journal of Plasticity</i> , 2017 , 95, 191-215	7.6	42
174	The competitive nucleation of misfit dislocation dipole and misfit extended dislocation dipole in nanocomposites. <i>Acta Mechanica</i> , 2017 , 228, 2541-2554	2.1	5
173	Three-dimensional fundamental solution of a penny-shaped crack in an infinite thermo-magneto-electro-elastic medium with transverse isotropy. <i>International Journal of Mechanical Sciences</i> , 2017 , 130, 203-220	5.5	13
172	Physical mechanism based crystal plasticity model of NiTi shape memory alloys addressing the thermo-mechanical cyclic degeneration of shape memory effect. <i>Mechanics of Materials</i> , 2017 , 112, 1-17 ^{3,3}		19
171	Cyclic Plasticity of Metals 2017 , 35-122		
170	Cyclic Plasticity of Metals 2017 , 123-217		
169	Thermomechanically Coupled Cyclic Plasticity of Metallic Materials at Finite Strain 2017 , 219-266		
168	Cyclic Viscoelasticity/Viscoplasticity of Polymers 2017 , 267-329		
167	Cyclic Plasticity of Particle-Reinforced Metal Matrix Composites 2017 , 331-403		

166	Thermomechanical Cyclic Deformation of Shape-Memory Alloys 2017 , 405-530		4
165	Crack tip electric polarization saturation of a thermally loaded penny-shaped crack in an infinite thermo-piezo-elastic medium. <i>International Journal of Solids and Structures</i> , 2017 , 117, 67-79	3.1	8
164	Three-dimensional exact magneto-electro-elastic field in an infinite transversely isotropic space with an elliptical crack under uniform loads: Shear mode. <i>International Journal of Engineering Science</i> , 2017 , 116, 104-129	5.7	16
163	Effects of peak stress and stress amplitude on multiaxial transformation ratchetting and fatigue life of superelastic NiTi SMA micro-tubes: Experiments and life-prediction model. <i>International Journal of Fatigue</i> , 2017 , 96, 252-260	5	20
162	Experimental investigation on the heterogeneous ratchetting of SUS301L stainless steel butt weld joint during uniaxial cyclic loading. <i>International Journal of Fatigue</i> , 2017 , 105, 169-179	5	24
161	Electric and magnetic polarization saturations for a thermally loaded penny-shaped crack in a magneto-electro-thermo-elastic medium. <i>Smart Materials and Structures</i> , 2017 , 26, 095049	3.4	3
160	Dislocation-dynamics-based dynamic constitutive model of magnesium alloy. <i>Acta Mechanica</i> , 2017 , 228, 1415-1422	2.1	2
159	Non-proportional multiaxial fatigue of super-elastic NiTi shape memory alloy micro-tubes: Damage evolution law and life-prediction model. <i>International Journal of Mechanical Sciences</i> , 2017 , 131-132, 325-333	5.5	22
158	Twinning-induced plasticity (TWIP) and work hardening in Ti-based metallic glass matrix composites. <i>Scientific Reports</i> , 2017 , 7, 1877	4.9	17
157	Magneto-elastic coupling model of deformable anisotropic superconductors. <i>Europhysics Letters</i> , 2017 , 118, 27006	1.6	3
156	Modeling of competition between shear yielding and crazing in amorphous polymers. <i>International Journal of Solids and Structures</i> , 2017 , 124, 215-228	3.1	29
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3	Dynamic Deformation of Frozen Soil at a High Strain Rate: Experiments and Damage-Coupled Constitutive Model. <i>Acta Mechanica Solida Sinica</i> ,1	2	2
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