

Guozheng Kang

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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	Ratchetting: Recent progresses in phenomenon observation, constitutive modeling and application. <i>International Journal of Fatigue</i> , 2008 , 30, 1448-1472	5	268
308	Time-dependent ratchetting experiments of SS304 stainless steel. <i>International Journal of Plasticity</i> , 2006 , 22, 858-894	7.6	153
307	A viscoplastic constitutive model incorporated with cyclic hardening for uniaxial/multi-axial ratchetting of SS304 stainless steel at room temperature. <i>Mechanics of Materials</i> , 2002 , 34, 521-531	3.3	136
306	A visco-plastic constitutive model for ratchetting of cyclically stable materials and its finite element implementation. <i>Mechanics of Materials</i> , 2004 , 36, 299-312	3.3	128
305	Uniaxial ratchetting and fatigue failure of tempered 42CrMo steel: Damage evolution and damage-coupled visco-plastic constitutive model. <i>International Journal of Plasticity</i> , 2009 , 25, 838-860	7.6	122
304	Constitutive modeling of strain range dependent cyclic hardening. <i>International Journal of Plasticity</i> , 2003 , 19, 1801-1819	7.6	121
303	Ratchetting deformation of super-elastic and shape-memory NiTi alloys. <i>Mechanics of Materials</i> , 2009 , 41, 139-153	3.3	117
302	Experimental study on ratchetting-fatigue interaction of SS304 stainless steel in uniaxial cyclic stressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 435-436, 396-404	5.3	111
301	Constitutive model for uniaxial transformation ratchetting of super-elastic NiTi shape memory alloy at room temperature. <i>International Journal of Plasticity</i> , 2010 , 26, 441-465	7.6	109
300	Experimental study on uniaxial and nonproportionally multi-axial ratchetting of SS304 stainless steel at room and high temperatures. <i>Nuclear Engineering and Design</i> , 2002 , 216, 13-26	1.8	109
299	Uniaxial ratchetting and low-cycle fatigue failure of the steel with cyclic stabilizing or softening feature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 472, 258-268	5.3	102
298	Crystal plasticity based constitutive model of NiTi shape memory alloy considering different mechanisms of inelastic deformation. <i>International Journal of Plasticity</i> , 2014 , 54, 132-162	7.6	95
297	High-Speed 3D Printing of High-Performance Thermosetting Polymers via Two-Stage Curing. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700809	4.8	92
296	Uniaxial ratchetting and failure behaviors of two steels. <i>Theoretical and Applied Fracture Mechanics</i> , 2005 , 43, 199-209	3.7	88
295	Uniaxial and non-proportionally multi-axial ratchetting of SS304 stainless steel at room temperature: experiments and simulations. <i>International Journal of Non-Linear Mechanics</i> , 2004 , 39, 843-857	2.8	87
294	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
293	A micromechanical constitutive model based on crystal plasticity for thermo-mechanical cyclic deformation of NiTi shape memory alloys. <i>International Journal of Plasticity</i> , 2013 , 44, 161-191	7.6	83

292	Experimental observations on rate-dependent cyclic deformation of super-elastic NiTi shape memory alloy. <i>Mechanics of Materials</i> , 2016 , 97, 48-58	3.3	81
291	Rate-dependent cyclic deformation of super-elastic NiTi shape memory alloy: Thermo-mechanical coupled and physical mechanism-based constitutive model. <i>International Journal of Plasticity</i> , 2015 , 72, 60-90	7.6	77
290	Whole-life transformation ratchetting and fatigue of super-elastic NiTi Alloy under uniaxial stress-controlled cyclic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 535, 228-234	5.3	75
289	Uniaxial and non-proportionally multiaxial ratcheting of U71Mn rail steel: experiments and simulations. <i>Mechanics of Materials</i> , 2002 , 34, 809-820	3.3	75
288	Effect of martensite reorientation and reorientation-induced plasticity on multiaxial transformation ratchetting of super-elastic NiTi shape memory alloy: New consideration in constitutive model. <i>International Journal of Plasticity</i> , 2015 , 67, 69-101	7.6	72
287	Non-proportionally multiaxial ratcheting of cyclic hardening materials at elevated temperatures: Experiments and simulations. <i>Mechanics of Materials</i> , 2005 , 37, 1101-1118	3.3	72
286	OliverPharr indentation method in determining elastic moduli of shape memory alloysA phase transformable material. <i>Journal of the Mechanics and Physics of Solids</i> , 2013 , 61, 2015-2033	5	71
285	Dislocation evolution in 316L stainless steel subjected to uniaxial ratchetting deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5952-5961	5.3	71
284	Constitutive modeling for uniaxial time-dependent ratcheting of SS304 stainless steel. <i>Mechanics of Materials</i> , 2007 , 39, 488-499	3.3	71
283	Uniaxial cyclic ratcheting and plastic flow properties of SS304 stainless steel at room and elevated temperatures. <i>Mechanics of Materials</i> , 2002 , 34, 145-159	3.3	70
282	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
281	Non-proportional multiaxial transformation ratchetting of super-elastic NiTi shape memory alloy: Experimental observations. <i>Mechanics of Materials</i> , 2014 , 70, 94-105	3.3	67
280	A micromechanical constitutive model for anisotropic cyclic deformation of super-elastic NiTi shape memory alloy single crystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2015 , 82, 97-136	5	65
279	Recent Progress on Wear-Resistant Materials: Designs, Properties, and Applications. <i>Advanced Science</i> , 2021 , 8, e2003739	13.6	56
278	Logarithmic stress rate based constitutive model for cyclic loading in finite plasticity. <i>International Journal of Plasticity</i> , 2014 , 54, 34-55	7.6	55
277	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
276	Review on structural fatigue of NiTi shape memory alloys: Pure mechanical and thermo-mechanical ones. <i>Theoretical and Applied Mechanics Letters</i> , 2015 , 5, 245-254	1.8	49
275	Stress-based fatigue failure models for uniaxial ratchettingfatigue interaction. <i>International Journal of Fatigue</i> , 2008 , 30, 1065-1073	5	48

274	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
273	Uniaxial ratchetting of polymer and polymer matrix composites: Time-dependent experimental observations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 523, 13-20	5.3	47
272	A machine-learning fatigue life prediction approach of additively manufactured metals. <i>Engineering Fracture Mechanics</i> , 2021 , 242, 107508	4.2	47
271	Cyclic plastic strain based damage tolerance for railway axles in China. <i>International Journal of Fatigue</i> , 2016 , 93, 64-70	5	46
270	The effect of martensite plasticity on the cyclic deformation of super-elastic NiTi shape memory alloy. <i>Smart Materials and Structures</i> , 2014 , 23, 015008	3.4	46
269	Multiple mechanism based constitutive modeling of gradient nanograin material. <i>International Journal of Plasticity</i> , 2020 , 125, 314-330	7.6	45
268	Thermo-mechanically coupled cyclic elasto-viscoplastic constitutive model of metals: Theory and application. <i>International Journal of Plasticity</i> , 2016 , 79, 111-152	7.6	44
267	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
266	Dynamic Photomask-Assisted Direct Ink Writing Multimaterial for Multilevel Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019 , 29, 1903568	15.6	42
265	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
264	Ratcheting behaviour of high strength rail steels under bi-axial compression-torsion loadings: Experiment and simulation. <i>International Journal of Fatigue</i> , 2014 , 66, 138-154	5	42
263	A physical mechanism based constitutive model for temperature-dependent transformation ratchetting of NiTi shape memory alloy: One-dimensional model. <i>Mechanics of Materials</i> , 2014 , 78, 1-10	3.3	42
262	Temperature damage and constitutive model of frozen soil under dynamic loading. <i>Mechanics of Materials</i> , 2016 , 102, 108-116	3.3	40
261	Cyclic polycrystalline visco-plastic model for ratchetting of 316L stainless steel. <i>Computational Materials Science</i> , 2011 , 50, 1399-1405	3.2	39
260	A multiaxial stress-based fatigue failure model considering ratchetting-fatigue interaction. <i>International Journal of Fatigue</i> , 2010 , 32, 678-684	5	39
259	Uniaxial ratchetting in steels with different cyclic softening/hardening behaviours. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2006 , 29, 93-103	3	38
258	Uniaxial time-dependent ratchetting of SiCP/6061Al composites at room and high temperature. <i>Composites Science and Technology</i> , 2006 , 66, 1418-1430	8.6	38
257	Uniaxial ratchetting of extruded AZ31 magnesium alloy: Effect of mean stress. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 607, 318-327	5.3	37

256	Meso-mechanical constitutive model for ratchetting of particle-reinforced metal matrix composites. <i>International Journal of Plasticity</i> , 2011 , 27, 1896-1915	7.6	37
255	Uniaxial ratchetting of 20 carbon steel: Macroscopic and microscopic experimental observations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5610-5620	5.3	37
254	Effect of daidzein on cell growth, cell cycle, and telomerase activity of human cervical cancer in vitro. <i>International Journal of Gynecological Cancer</i> , 2004 , 14, 882-8	3.5	36
253	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
252	Uniaxial Ratcheting Behaviors of Metals with Different Crystal Structures or Values of Fault Energy: Macroscopic Experiments. <i>Journal of Materials Science and Technology</i> , 2011 , 27, 453-459	9.1	35
251	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
250	Dislocation evolution in 316 L stainless steel during multiaxial ratchetting deformation. <i>Materials Characterization</i> , 2012 , 65, 62-72	3.9	34
249	A cyclic visco-plastic constitutive model for time-dependent ratchetting of particle-reinforced metal matrix composites. <i>International Journal of Plasticity</i> , 2013 , 40, 101-125	7.6	34
248	Ratchetting of porcine skin under uniaxial cyclic loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 498-506	4.1	34
247	Experimental study on the cyclic deformation and plastic flow of U71Mn rail steel. <i>International Journal of Mechanical Sciences</i> , 2002 , 44, 1647-1663	5.5	34
246	A test procedure for separating viscous recovery and accumulated unrecoverable deformation of polymer under cyclic loading. <i>Polymer Testing</i> , 2013 , 32, 1445-1451	4.5	33
245	Multiaxial ratchetting fatigue interactions of annealed and tempered 42CrMo steels: Experimental observations. <i>International Journal of Fatigue</i> , 2008 , 30, 2104-2118	5	33
244	Uniaxial time-dependent ratchetting: Visco-plastic model and finite element application. <i>Theoretical and Applied Fracture Mechanics</i> , 2007 , 47, 133-144	3.7	32
243	Uniaxial ratcheting of SS304 stainless steel at high temperatures: visco-plastic constitutive model. <i>Theoretical and Applied Fracture Mechanics</i> , 2003 , 40, 105-111	3.7	32
242	Non-proportional multiaxial whole-life transformation ratchetting and fatigue failure of super-elastic NiTi shape memory alloy micro-tubes. <i>International Journal of Fatigue</i> , 2015 , 80, 372-380	5	30
241	Observation on rate-dependent cyclic transformation domain of super-elastic NiTi shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 671, 32-47	5.3	30
240	Dynamic stress-strain behavior of frozen soil: Experiments and modeling. <i>Cold Regions Science and Technology</i> , 2014 , 106-107, 153-160	3.8	30
239	A hygro-thermo-mechanical coupled cyclic constitutive model for polymers with considering glass transition. <i>International Journal of Plasticity</i> , 2017 , 89, 29-65	7.6	30

238	Experimental studies on the uniaxial ratchetting of polycarbonate polymer at different temperatures. <i>Polymer Testing</i> , 2014 , 39, 92-100	4.5	29
237	Modeling of competition between shear yielding and crazing in amorphous polymers—scratch. <i>International Journal of Solids and Structures</i> , 2017 , 124, 215-228	3.1	29
236	A thermo-mechanically coupled nonlinear viscoelastic–viscoplastic cyclic constitutive model for polymeric materials. <i>Mechanics of Materials</i> , 2017 , 105, 1-15	3.3	29
235	Effect of grain boundary segregation on the deformation mechanisms and mechanical properties of nanocrystalline binary aluminum alloys. <i>Computational Materials Science</i> , 2016 , 117, 445-454	3.2	28
234	Study on the rate-dependent cyclic deformation of super-elastic NiTi shape memory alloy based on a new crystal plasticity constitutive model. <i>International Journal of Solids and Structures</i> , 2014 , 51, 4386-4405	2.1	27
233	Tensile properties of randomly oriented short Al ₂ O ₃ fiber reinforced aluminum alloy composites: II. Finite element analysis for stress transfer, elastic modulus and stress–strain curve. <i>Composites Part A: Applied Science and Manufacturing</i> , 2002 , 33, 657-667	8.4	27
232	Crystal plasticity finite element analysis of gradient nanostructured TWIP steel. <i>International Journal of Plasticity</i> , 2020 , 130, 102703	7.6	26
231	Non-proportionally multiaxial cyclic deformation of AZ31 magnesium alloy: Experimental observations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 671, 70-81	5.3	26
230	A dislocation-based cyclic polycrystalline visco-plastic constitutive model for ratchetting of metals with face-centered cubic crystal structure. <i>Computational Materials Science</i> , 2014 , 91, 75-82	3.2	26
229	An efficient computational approach to evaluate the ratcheting performance of rail steels under cyclic rolling contact in service. <i>International Journal of Mechanical Sciences</i> , 2015 , 101-102, 214-226	5.5	26
228	Dynamic behavior of frozen soil under uniaxial strain and stress conditions. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2013 , 34, 229-238	3.2	26
227	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
226	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
225	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
224	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
223	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
222	Viscoelastic–viscoplastic Cyclic Deformation of Polycarbonate Polymer: Experiment and Constitutive Model. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016 , 83,	2.7	23
221	In-situ observation of temperature rise during scratch testing of poly (methylmethacrylate) and polycarbonate. <i>Tribology International</i> , 2016 , 95, 1-4	4.9	23

220	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
219	A truncated conical beam model for analysis of the vibration of rat whiskers. <i>Journal of Biomechanics</i> , 2013 , 46, 1987-95	2.9	23
218	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
217	A Dynamic Micromechanical Constitutive Model for Frozen Soil under Impact Loading. <i>Acta Mechanica Sinica</i> , 2016 , 29, 13-21	2	22
216	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
215	Micromechanical constitutive model considering plasticity for super-elastic NiTi shape memory alloy. <i>Computational Materials Science</i> , 2012 , 56, 1-5	3.2	22
214	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
213	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
212	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
211	Macroscopic and microscopic investigations on uniaxial ratchetting of two-phase Ti ₆ Al ₄ V alloy. <i>Materials Characterization</i> , 2014 , 92, 26-35	3.9	21
210	Finite element analysis on bending fretting fatigue of 316L stainless steel considering ratchetting and cyclic hardening. <i>International Journal of Mechanical Sciences</i> , 2014 , 86, 26-33	5.5	21
209	Viscoelastic constitutive model for uniaxial time-dependent ratcheting of polyetherimide polymer. <i>Polymer Engineering and Science</i> , 2012 , 52, 1874-1881	2.3	21
208	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
207	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
206	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
205	An experimental study on uniaxial ratcheting of polycarbonate polymers with different molecular weights. <i>Materials & Design</i> , 2015 , 67, 644-648		20
204	Fundamental elastic field in an infinite medium of two-dimensional hexagonal quasicrystal with a planar crack: 3D exact analysis. <i>International Journal of Solids and Structures</i> , 2015 , 66, 171-183	3.1	20
203	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

202	Crystal plasticity-based impact dynamic constitutive model of magnesium alloy. <i>International Journal of Mechanical Sciences</i> , 2016 , 119, 107-113	5.5	20
201	Closed-form field in an infinite space of transversely isotropic multiferroic composite medium with an elliptical or penny-shaped crack: 3D exact analysis. <i>International Journal of Solids and Structures</i> , 2016 , 80, 96-117	3.1	20
200	Experimental observation on multiaxial ratchetting of polycarbonate polymer at room temperature. <i>Polymer Testing</i> , 2016 , 50, 135-144	4.5	20
199	Crystal plasticity based constitutive model for uniaxial ratchetting of polycrystalline magnesium alloy. <i>Computational Materials Science</i> , 2014 , 84, 63-73	3.2	20
198	Constitutive model for uniaxial time-dependent ratcheting of 6061-T6 aluminum alloy. <i>Computational Materials Science</i> , 2012 , 57, 67-72	3.2	20
197	Axisymmetric thermo-elasticity field in a functionally graded circular plate of transversely isotropic material. <i>Mathematics and Mechanics of Solids</i> , 2013 , 18, 464-475	2.3	20
196	Experimental study on uniaxial time-dependent ratcheting of a polyetherimide polymer. <i>Journal of Zhejiang University: Science A</i> , 2010 , 11, 804-810	2.1	20
195	Effect of interfacial bonding on uniaxial ratchetting of SiCP/6061Al composites: Finite element analysis with 2-D and 3-D unit cells. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 487, 431-444	5.3	20
194	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
193	Influence of Third Particle on the Tribological Behaviors of Diamond-like Carbon Films. <i>Scientific Reports</i> , 2016 , 6, 38279	4.9	20
192	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
191	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
190	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
189	Fundamental thermo-electro-elastic solutions for 1D hexagonal QC. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2015 , 95, 457-468	1	18
188	Finite element implementation of visco-plastic constitutive model with strain-range-dependent cyclic hardening. <i>Communications in Numerical Methods in Engineering</i> , 2005 , 22, 137-153		18
187	Tensile properties of randomly oriented short Al ₂ O ₃ fiber reinforced aluminum alloy composites. I. Microstructure characteristics, fracture mechanisms and strength prediction. <i>Composites Part A: Applied Science and Manufacturing</i> , 2002 , 33, 647-656	8.4	18
186	A uniaxial tensile behavior based fatigue crack growth model. <i>International Journal of Fatigue</i> , 2020 , 131, 105324	5	18
185	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

184	Observation on the transformation domains of super-elastic NiTi shape memory alloy and their evolutions during cyclic loading. <i>Smart Materials and Structures</i> , 2016 , 25, 045003	3.4	17
183	Twinning-induced plasticity (TWIP) and work hardening in Ti-based metallic glass matrix composites. <i>Scientific Reports</i> , 2017 , 7, 1877	4.9	17
182	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
181	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
180	Review on fatigue life prediction models of welded joint. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2020 , 36, 701-726	2	16
179	Steady-state thermo-elastic field in an infinite medium weakened by a penny-shaped crack: Complete and exact solutions. <i>International Journal of Solids and Structures</i> , 2016 , 84, 167-182	3.1	16
178	Three-dimensional fundamental thermo-elastic field in an infinite space of two-dimensional hexagonal quasi-crystal with a penny-shaped/half-infinite plane crack. <i>Theoretical and Applied Fracture Mechanics</i> , 2017 , 88, 18-30	3.7	16
177	Vertical short-crack behavior and its application in rolling contact fatigue. <i>International Journal of Fatigue</i> , 2006 , 28, 804-811	5	16
176	Numerical simulation for uniaxial cyclic deformation of discontinuously reinforced metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 426, 66-76	5.3	16
175	Damage-based life prediction model for uniaxial low-cycle stress fatigue of super-elastic NiTi shape memory alloy microtubes. <i>Smart Materials and Structures</i> , 2015 , 24, 085007	3.4	15
174	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
173	Multiaxial ratcheting of 20 carbon steel: Macroscopic experiments and microscopic observations. <i>Materials Characterization</i> , 2013 , 83, 1-12	3.9	15
172	Uniaxial cyclic deformation and internal heat production of ultra-high molecular weight polyethylene. <i>Journal of Polymer Research</i> , 2015 , 22, 1	2.7	15
171	Uniaxial Time-Dependent Ratcheting of SS304 Stainless Steel at High Temperatures. <i>Journal of Iron and Steel Research International</i> , 2007 , 14, 53-59	1.2	15
170	Multiaxial low-cycle fatigue failure mechanism of super-elastic NiTi shape memory alloy micro-tubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 665, 17-25	5.3	15
169	A novel method of multiaxial fatigue life prediction based on deep learning. <i>International Journal of Fatigue</i> , 2021 , 151, 106356	5	15
168	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
167	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

166	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
165	Accelerated ratcheting testing of polycarbonate using the time-temperature-stress equivalence method. <i>Polymer Testing</i> , 2015 , 44, 8-14	4.5	14
164	Experimental observations on uniaxial whole-life transformation ratchetting and low-cycle stress fatigue of super-elastic NiTi shape memory alloy micro-tubes. <i>Smart Materials and Structures</i> , 2015 , 24, 075004	3.4	14
163	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
162	Finite element analysis for uniaxial time-dependent ratcheting of SiCP/6061Al composites at room and high temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 458, 170-183	5.3	14
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