

Yong-Cheng Lin

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200
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205
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ext. citations

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L-index

#	Paper	IF	Citations
200	A critical review of experimental results and constitutive descriptions for metals and alloys in hot working. <i>Materials & Design</i> , 2011 , 32, 1733-1759		883
199	Constitutive modeling for elevated temperature flow behavior of 42CrMo steel. <i>Computational Materials Science</i> , 2008 , 42, 470-477	3.2	461
198	EBSO study of a hot deformed nickel-based superalloy. <i>Journal of Alloys and Compounds</i> , 2015 , 640, 101-113	3.7	338
197	Dynamic recrystallization behavior of a typical nickel-based superalloy during hot deformation. <i>Materials & Design</i> , 2014 , 57, 568-577		321
196	Prediction of 42CrMo steel flow stress at high temperature and strain rate. <i>Mechanics Research Communications</i> , 2008 , 35, 142-150	2.2	238
195	A modified Johnson-Cook model for tensile behaviors of typical high-strength alloy steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6980-6986	5.3	222
194	Constitutive descriptions for hot compressed 2124-T851 aluminum alloy over a wide range of temperature and strain rate. <i>Computational Materials Science</i> , 2010 , 50, 227-233	3.2	207
193	Hot deformation and processing map of a typical AlZnMgCu alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 550, 438-445	5.7	201
192	Application of neural networks to predict the elevated temperature flow behavior of a low alloy steel. <i>Computational Materials Science</i> , 2008 , 43, 752-758	3.2	194
191	Hot deformation behavior and processing map of a typical Ni-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 591, 183-192	5.3	188
190	A physically-based constitutive model for a typical nickel-based superalloy. <i>Computational Materials Science</i> , 2014 , 83, 282-289	3.2	183
189	EBSO analysis of evolution of dynamic recrystallization grains and phase in a nickel-based superalloy during hot compressive deformation. <i>Materials and Design</i> , 2016 , 97, 13-24	8.1	173
188	Moisture sorption-desorption characteristics and its effect on the mechanical behavior of the epoxy system. <i>Polymer</i> , 2005 , 46, 11994-12003	3.9	152
187	Effect of temperature and strain rate on the compressive deformation behavior of 42CrMo steel. <i>Journal of Materials Processing Technology</i> , 2008 , 205, 308-315	5.3	150
186	Constitutive models for high-temperature flow behaviors of a Ni-based superalloy. <i>Materials & Design</i> , 2014 , 59, 115-123		138
185	Hot tensile deformation behaviors and fracture characteristics of a typical Ni-based superalloy. <i>Materials & Design</i> , 2014 , 55, 949-957		131
184	The kinetics of dynamic recrystallization of 42CrMo steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 260-266	5.3	125

183	Microstructural evolution and constitutive models to predict hot deformation behaviors of a nickel-based superalloy. <i>Vacuum</i> , 2017 , 137, 104-114	3.7	118
182	Hot tensile deformation and fracture behaviors of AZ31 magnesium alloy. <i>Materials & Design</i> , 2013 , 49, 209-219		118
181	Microstructural evolution of a nickel-based superalloy during hot deformation. <i>Materials & Design</i> , 2015 , 77, 41-49		116
180	Work-hardening behaviors of typical solution-treated and aged Ni-based superalloys during hot deformation. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 372-379	5.7	113
179	Hot tensile deformation behaviors and constitutive model of an Al ₇₀ Ni ₂₀ Mg ₁₀ Ti alloy. <i>Materials & Design</i> , 2014 , 59, 141-150		112
178	A phenomenological constitutive model for high temperature flow stress prediction of Al ₇₀ Ti ₂₀ Mg ₁₀ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 534, 654-662	5.3	106
177	Effects of initial β phase on hot tensile deformation behaviors and fracture characteristics of a typical Ni-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 598, 251-262	5.3	105
176	A review of the influencing factors on anisotropic conductive adhesives joining technology in electrical applications. <i>Journal of Materials Science</i> , 2008 , 43, 3072-3093	4.3	104
175	Study of dynamic recrystallization in a Ni-based superalloy by experiments and cellular automaton model. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 626, 432-440	5.3	102
174	A new dynamic recrystallization kinetics model for a Nb containing Ni-Fe-Cr-base superalloy considering influences of initial β phase. <i>Vacuum</i> , 2017 , 141, 316-327	3.7	98
173	Precipitation hardening of 2024-T3 aluminum alloy during creep aging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 420-429	5.3	98
172	A combined Johnson-Cook and Zerilli-Armstrong model for hot compressed typical high-strength alloy steel. <i>Computational Materials Science</i> , 2010 , 49, 628-633	3.2	98
171	Microstructural evolution and support vector regression model for an aged Ni-based superalloy during two-stage hot forming with stepped strain rates. <i>Materials and Design</i> , 2018 , 154, 51-62	8.1	95
170	Study of static recrystallization kinetics in a low alloy steel. <i>Computational Materials Science</i> , 2008 , 44, 316-321	3.2	94
169	Effects of initial aging time on processing map and microstructures of a nickel-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 620, 319-332	5.3	92
168	Investigation of uniaxial low-cycle fatigue failure behavior of hot-rolled AZ91 magnesium alloy. <i>International Journal of Fatigue</i> , 2013 , 48, 122-132	5	91
167	Investigation of moisture diffusion in epoxy system: Experiments and molecular dynamics simulations. <i>Chemical Physics Letters</i> , 2005 , 412, 322-326	2.5	90
166	Hot compressive deformation behavior of 7075 Al alloy under elevated temperature. <i>Journal of Materials Science</i> , 2012 , 47, 1306-1318	4.3	87

165	A new mathematical model for predicting flow stress of typical high-strength alloy steel at elevated high temperature. <i>Computational Materials Science</i> , 2010 , 48, 54-58	3.2	87
164	New constitutive model for high-temperature deformation behavior of inconel 718 superalloy. <i>Materials & Design</i> , 2015 , 74, 108-118		86
163	Numerical simulation for stress/strain distribution and microstructural evolution in 42CrMo steel during hot upsetting process. <i>Computational Materials Science</i> , 2008 , 43, 1117-1122	3.2	86
162	Low cycle fatigue and creep-fatigue interaction behavior of nickel-base superalloy GH4169 at elevated temperature of 650 °C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 655, 175-182	5.3	85
161	Microstructural evolution in 42CrMo steel during compression at elevated temperatures. <i>Materials Letters</i> , 2008 , 62, 2132-2135	3.3	84
160	Effects of pre-treatments on aging precipitates and corrosion resistance of a creep-aged AlZnMgCu alloy. <i>Materials and Design</i> , 2015 , 83, 866-875	8.1	82
159	Study of metadynamic recrystallization behaviors in a low alloy steel. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 2477-2482	5.3	80
158	Uniaxial ratcheting and fatigue failure behaviors of hot-rolled AZ31B magnesium alloy under asymmetrical cyclic stress-controlled loadings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 573, 234-244	5.3	79
157	Effects of initial microstructures on hot tensile deformation behaviors and fracture characteristics of Ti-6Al-4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 711, 293-302	5.3	79
156	Phase transformation and dynamic recrystallization behaviors in a Ti55511 titanium alloy during hot compression. <i>Journal of Alloys and Compounds</i> , 2019 , 795, 471-482	5.7	78
155	Uniaxial ratcheting and low-cycle fatigue failure behaviors of AZ91D magnesium alloy under cyclic tension deformation. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 6838-6843	5.7	76
154	Study of static recrystallization behavior in hot deformed Ni-based superalloy using cellular automaton model. <i>Materials and Design</i> , 2016 , 99, 107-114	8.1	70
153	Dislocation substructures evolution and an adaptive-network-based fuzzy inference system model for constitutive behavior of a Ni-based superalloy during hot deformation. <i>Journal of Alloys and Compounds</i> , 2017 , 708, 938-946	5.7	67
152	Phase transformation and constitutive models of a hot compressed TC18 titanium alloy in the β regime. <i>Vacuum</i> , 2018 , 157, 83-91	3.7	67
151	Effect of creep-aging on precipitates of 7075 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 347-356	5.3	67
150	Effects of deformation temperatures on stress/strain distribution and microstructural evolution of deformed 42CrMo steel. <i>Materials & Design</i> , 2009 , 30, 908-913		66
149	EBSD study of grain growth behavior and annealing twin evolution after full recrystallization in a nickel-based superalloy. <i>Journal of Alloys and Compounds</i> , 2017 , 724, 198-207	5.7	65
148	A unified physically based constitutive model for describing strain hardening effect and dynamic recovery behavior of a Ni-based superalloy. <i>Journal of Materials Research</i> , 2015 , 30, 3784-3794	2.5	64

147	Uniaxial ratchetting behavior of anisotropic conductive adhesive film under cyclic tension. <i>Polymer Testing</i> , 2011 , 30, 8-15	4.5	64
146	Precipitation in AlCuMg alloy during creep exposure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 796-800	5.3	62
145	A Phenomenological Constitutive Model for Describing Thermo-Viscoplastic Behavior of Al-Zn-Mg-Cu Alloy Under Hot Working Condition. <i>Experimental Mechanics</i> , 2012 , 52, 993-1002	2.6	62
144	Study of microstructural evolution during metadynamic recrystallization in a low-alloy steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 501, 229-234	5.3	62
143	Effects of hygrothermal aging on epoxy-based anisotropic conductive film. <i>Materials Letters</i> , 2006 , 60, 2958-2963	3.3	61
142	Dynamic softening mechanism in Ti-13V-11Cr-3Al beta Ti alloy during hot compressive deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 665, 154-160	5.3	59
141	Effect of pre-treatment on hot deformation behavior and processing map of an aged nickel-based superalloy. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 1075-1084	5.7	58
140	Effects of strain on the workability of a high strength low alloy steel in hot compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 523, 139-144	5.3	58
139	2D cellular automaton simulation of hot deformation behavior in a Ni-based superalloy under varying thermal-mechanical conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 691, 88-99	5.3	56
138	Hot tensile deformation behaviors and constitutive model of 42CrMo steel. <i>Materials & Design</i> , 2014 , 53, 349-356		50
137	Isothermal tensile deformation behaviors and fracture mechanism of Ti-5Al-5Mo-5V-1Cr-1Fe alloy in β phase field. <i>Vacuum</i> , 2018 , 156, 187-197	3.7	49
136	Modeling the high-temperature creep behaviors of 7075 and 2124 aluminum alloys by continuum damage mechanics model. <i>Computational Materials Science</i> , 2013 , 73, 72-78	3.2	49
135	A new method to predict the metadynamic recrystallization behavior in 2124 aluminum alloy. <i>Computational Materials Science</i> , 2011 , 50, 2038-2043	3.2	49
134	Effects of solution treatment on microstructures and micro-hardness of a Sr-modified Al-Si-Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 725, 530-540	5.3	48
133	A precise BP neural network-based online model predictive control strategy for die forging hydraulic press machine. <i>Neural Computing and Applications</i> , 2018 , 29, 585-596	4.8	47
132	Effects of pre-treatments on mechanical properties and fracture mechanism of a nickel-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 679, 401-409	5.3	46
131	Kinetics equations and microstructural evolution during metadynamic recrystallization in a nickel-based superalloy with β phase. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 971-978	5.7	46
130	A new phenomenological constitutive model for hot tensile deformation behaviors of a typical AlCuMg alloy. <i>Materials & Design</i> , 2013 , 52, 118-127		45

129	Microstructural evolution and high temperature flow behaviors of a homogenized Sr-modified Al-Si-Mg alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 739, 590-599	5-7	44
128	Low-cycle fatigue behaviors of hot-rolled AZ91 magnesium alloy under asymmetrical stress-controlled cyclic loadings. <i>Journal of Alloys and Compounds</i> , 2013 , 579, 540-548	5-7	44
127	Stress-based fatigue life prediction models for AZ31B magnesium alloy under single-step and multi-step asymmetric stress-controlled cyclic loadings. <i>Computational Materials Science</i> , 2013 , 73, 128-138	3-3	44
126	A novel unified dislocation density-based model for hot deformation behavior of a nickel-based superalloy under dynamic recrystallization conditions. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	44
125	A unified constitutive model based on dislocation density for an Al-Zn-Mg-Cu alloy at time-variant hot deformation conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 718, 165-172	5-3	43
124	Dissolution mechanisms and kinetics of β phase in an aged Ni-based superalloy in hot deformation process. <i>Materials and Design</i> , 2018 , 156, 262-271	8.1	43
123	Hot deformation characteristics and dislocation substructure evolution of a nickel-base alloy considering effects of β phase. <i>Journal of Alloys and Compounds</i> , 2018 , 764, 1008-1020	5-7	43
122	Microstructural evolution of a Ni-Fe-Cr-base superalloy during non-isothermal two-stage hot deformation. <i>Vacuum</i> , 2018 , 151, 283-293	3-7	42
121	Effect of creep-aging processing on corrosion resistance of an AlZnMgCu alloy. <i>Materials & Design</i> , 2014 , 61, 228-238		42
120	Numerical simulation and experimental verification of void evolution inside large forgings during hot working. <i>International Journal of Plasticity</i> , 2013 , 49, 53-70	7.6	42
119	Effects of solution temperature and cooling rate on microstructure and micro-hardness of a hot compressed Ti-6Al-4V alloy. <i>Vacuum</i> , 2019 , 159, 191-199	3-7	42
118	Modeling and simulation of dynamic recrystallization behavior for 42CrMo steel by an extended cellular automaton method. <i>Vacuum</i> , 2017 , 146, 142-151	3-7	41
117	Study of microstructural evolution during static recrystallization in a low alloy steel. <i>Journal of Materials Science</i> , 2009 , 44, 835-842	4-3	40
116	Evolution of precipitates during two-stage stress-aging of an Al-Zn-Mg-Cu alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 684, 177-187	5-7	39
115	A comparative study on phenomenon and deep belief network models for hot deformation behavior of an AlZnMgCu alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	38
114	Effects of annealing parameters on microstructural evolution of a typical nickel-based superalloy during annealing treatment. <i>Materials Characterization</i> , 2018 , 141, 212-222	3-9	38
113	Modeling the creep behavior of 2024-T3 Al alloy. <i>Computational Materials Science</i> , 2013 , 67, 243-248	3-2	38
112	A novel constitutive model for hot deformation behaviors of Ti6Al4V alloy based on probabilistic method. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	38

111	Microstructural variations and kinetic behaviors during metadynamic recrystallization in a nickel base superalloy with pre-precipitated γ phase. <i>Materials and Design</i> , 2019 , 165, 107584	8.1	38
110	Influences of solution cooling on microstructures, mechanical properties and hot corrosion resistance of a nickel-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 746, 372-383	5.3	38
109	Effects of creep-aging processing on the corrosion resistance and mechanical properties of an AlCuMg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 605, 192-202	5.3	36
108	High-temperature creep behavior of AlCuMg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 550, 125-130	5.3	36
107	A physically-based model considering dislocation-solute atom dynamic interactions for a nickel-based superalloy at intermediate temperatures. <i>Materials and Design</i> , 2019 , 183, 108122	8.1	35
106	Hot compressive deformation behavior and microstructure evolution of a Ti-55511 alloy with basket-weave microstructures. <i>Vacuum</i> , 2019 , 169, 108878	3.7	35
105	Effects of two-stage creep-aging on precipitates of an AlCuMg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 614, 45-53	5.3	34
104	Investigation of the effect of hygrothermal conditions on epoxy system by fractography and computer simulation. <i>Materials Letters</i> , 2005 , 59, 3831-3836	3.3	34
103	New Constitutive Model for Hot Deformation Behaviors of Ni-Based Superalloy Considering the Effects of Initial γ Phase. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 3527-3538	1.6	33
102	Effects of initial microstructures on serrated flow features and fracture mechanisms of a nickel-based superalloy. <i>Materials Characterization</i> , 2018 , 144, 9-21	3.9	33
101	Influences of pre-precipitated γ phase on microstructures and hot compressive deformation features of a nickel-based superalloy. <i>Vacuum</i> , 2019 , 161, 242-250	3.7	33
100	A dislocation density-based model and processing maps of Ti-55511 alloy with bimodal microstructures during hot compression in β region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 790, 139692	5.3	31
99	Prediction of metadynamic softening in a multi-pass hot deformed low alloy steel using artificial neural network. <i>Journal of Materials Science</i> , 2008 , 43, 5508-5515	4.3	31
98	A new method to predict the metadynamic recrystallization behavior in a typical nickel-based superalloy. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	31
97	Hot tensile properties, microstructure evolution and fracture mechanisms of Ti-6Al-4V alloy with initial coarse equiaxed phases. <i>Materials Characterization</i> , 2020 , 163, 110272	3.9	30
96	Corrosion resistance of a two-stage stress-aged AlCuMg alloy: Effects of stress-aging temperature. <i>Journal of Alloys and Compounds</i> , 2016 , 657, 855-865	5.7	30
95	Improved dislocation density-based models for describing hot deformation behaviors of a Ni-based superalloy. <i>Journal of Materials Research</i> , 2016 , 31, 2415-2429	2.5	28
94	Investigation of the Moisture-Desorption Characteristics of Epoxy Resin. <i>Journal of Polymer Research</i> , 2007 , 13, 369-374	2.7	28

93	Effects of hygrothermal aging on anisotropic conductive adhesive joints: experiments and theoretical analysis. <i>Journal of Adhesion Science and Technology</i> , 2006 , 20, 1383-1399	2	28
92	Microstructural evolution of an aged Ni-based superalloy under two-stage hot compression with different strain rates. <i>Materials and Design</i> , 2016 , 111, 344-352	8.1	27
91	Effects of pressure on anisotropic elastic properties and minimum thermal conductivity of D022-Ni3Nb phase: First-principles calculations. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 285-293	5.7	27
90	Spheroidization and dynamic recrystallization mechanisms of Ti-55511 alloy with bimodal microstructures during hot compression in β region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 782, 139282	5.3	27
89	Hot deformation behavior of a Sr-modified Al-Si-Mg alloy: Constitutive model and processing maps. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 592-603	3.3	26
88	Effects of two-stage creep-aging processing on mechanical properties of an AlCuMg alloy. <i>Materials & Design</i> , 2015 , 79, 127-135		25
87	Hot Tensile Deformation Mechanism and Dynamic Softening Behavior of Ti6Al4V Alloy with Thick Lamellar Microstructures. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901193	3.5	25
86	Effects of Initial β Phase on Creep Behaviors and Fracture Characteristics of a Nickel-Based Superalloy. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700820	3.5	25
85	Microstructure Characteristics and Comparative Analysis of Constitutive Models for Flow Stress Prediction of Inconel 718 Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 3320-3331	1.6	24
84	Precipitation behavior of a β quenched Ti-5Al-5Mo-5V-1Cr-1Fe alloy during high-temperature compression. <i>Materials Characterization</i> , 2019 , 151, 358-367	3.9	24
83	Microstructural evolution and grain refinement mechanisms of a Ni-based superalloy during a two-stage annealing treatment. <i>Materials Characterization</i> , 2019 , 151, 445-456	3.9	24
82	A strategy to control microstructures of a Ni-based superalloy during hot forging based on particle swarm optimization algorithm. <i>Advances in Manufacturing</i> , 2019 , 7, 238-247	2.7	23
81	Investigation on strain dependence of metadynamic recrystallization behaviors of GH4169 superalloy. <i>Vacuum</i> , 2018 , 149, 1-11	3.7	23
80	Precipitation behaviors and orientation evolution mechanisms of β phases in Ti-55511 titanium alloy during heat treatment and subsequent hot deformation. <i>Materials Characterization</i> , 2020 , 167, 110471	3.9	23
79	Microstructure evolution and a unified constitutive model for a Ti-55511 alloy deformed in β region. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159534	5.7	23
78	Effects of deformation parameters and stress triaxiality on the fracture behaviors and microstructural evolution of an Al-Zn-Mg-Cu alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 832, 154988	5.7	22
77	Formation mechanism of large grains inside annealed microstructure of GH4169 superalloy by cellular automation method. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1403-1411	9.1	21
76	Cyclic Plasticity Constitutive Model for Uniaxial Ratcheting Behavior of AZ31B Magnesium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 1820-1833	1.6	20

75	Effects of creep-aging parameters on aging precipitates of a two-stage creep-aged Al ₇₀ Zn ₁₀ Mg ₁₀ Cu alloy under the extra compressive stress. <i>Journal of Alloys and Compounds</i> , 2018 , 743, 448-455	5.7	20
74	Effects of initial γ phase (Ni ₃ Nb) on hot tensile deformation behaviors and material constants of Ni-based superalloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 107-117	3.3	20
73	A design framework for optimizing forming processing parameters based on matrix cellular automaton and neural network-based model predictive control methods. <i>Applied Mathematical Modelling</i> , 2019 , 76, 918-937	4.5	20
72	Effects of solutionizing cooling processing on γ (Ni ₃ Nb) phase and work hardening characteristics of a Ni-Fe-Cr-base superalloy. <i>Vacuum</i> , 2017 , 144, 86-93	3.7	20
71	A New Creep Constitutive Model for 7075 Aluminum Alloy Under Elevated Temperatures. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 4350-4357	1.6	20
70	Reliability of Anisotropic Conductive Adhesive Joints in Electronic Packaging Applications. <i>Journal of Adhesion Science and Technology</i> , 2008 , 22, 1631-1657	2	20
69	Study on the structural transition and thermal properties of Ni ₃ Nb-D022 phase: First-principles calculation. <i>Materials and Design</i> , 2018 , 139, 16-24	8.1	20
68	Corrosion resistance of a two-stage stress-aged Al ₇₀ Zn ₁₀ Mg alloy: Effects of external stress. <i>Journal of Alloys and Compounds</i> , 2016 , 661, 221-230	5.7	19
67	An improved kinetics model to describe dynamic recrystallization behavior under inconstant deformation conditions. <i>Journal of Materials Research</i> , 2016 , 31, 2994-3003	2.5	19
66	Precipitation and dissolution behaviors of γ phase inside a deformed nickel-based superalloy during annealing treatment. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	18
65	A deep belief network to predict the hot deformation behavior of a Ni-based superalloy. <i>Neural Computing and Applications</i> , 2018 , 29, 1015-1023	4.8	18
64	Electrochemical corrosion behaviors of a stress-aged Al-Zn-Mg-Cu alloy. <i>Journal of Materials Research</i> , 2016 , 31, 2493-2505	2.5	18
63	Effects of ultrasonic bonding process on polymer-based anisotropic conductive film joints in chip-on-glass assemblies. <i>Polymer Testing</i> , 2011 , 30, 318-323	4.5	18
62	Three-Dimensional Crystal Plasticity Finite Element Simulation of Hot Compressive Deformation Behaviors of 7075 Al Alloy. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 1294-1304	1.6	17
61	Methods and mechanisms for uniformly refining deformed mixed and coarse grains inside a solution-treated Ni-based superalloy by two-stage heat treatment. <i>Journal of Materials Science and Technology</i> , 2021 , 77, 47-57	9.1	17
60	EBSD Study of Microstructural Evolution in a Nickel-Base Superalloy during Two-Pass Hot Compressive Deformation. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800129	3.5	16
59	A Particle Swarm Optimization-Based Multi-level Processing Parameters Optimization Method for Controlling Microstructures of an Aged Superalloy During Isothermal Forging. <i>Metals and Materials International</i> , 2019 , 25, 1246-1257	2.4	15
58	Precipitation of Secondary Phase and Phase Transformation Behavior of a Solution-Treated Ti ₆ Al ₄ V Alloy during High-Temperature Aging. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901436	3.5	15

57	Constitutive Model and Processing Maps for a Ti-55511 Alloy in β Region. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900930	3.5	15
56	Effects of aging on precipitation behavior and mechanical properties of a tensile deformed AlCu alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 843, 155975	5.7	14
55	Influences of Initial Microstructures on Portevin-Le Chatelier Effect and Mechanical Properties of a NiBeCrBase Superalloy. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800234	3.5	14
54	Influence of Stress-Aging Processing on Precipitates and Mechanical Properties of a 7075 Aluminum Alloy. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700583	3.5	13
53	Influences of stress-aging on the precipitation behavior of β phase (Ni ₃ Nb) in a nickel-based superalloy. <i>Materials and Design</i> , 2021 , 197, 109256	8.1	13
52	Staggered spinning of thin-walled Hastelloy C-276 cylindrical parts: Numerical simulation and experimental investigation. <i>Thin-Walled Structures</i> , 2019 , 140, 466-476	4.7	12
51	Prediction of Ductile Fracture Behaviors for 42CrMo Steel at Elevated Temperatures. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 221-228	1.6	12
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