

Yong-Cheng Lin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1642494/yong-cheng-lin-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

200
papers

10,929
citations

59
h-index

98
g-index

205
ext. papers

12,541
ext. citations

4.1
avg. IF

6.97
L-index

#	Paper	IF	Citations
200	Physical property and failure mechanism of self-piercing riveting joints between foam metal sandwich composite aluminum plate and aluminum alloy. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 139-149	5.5	3
199	Effect of cooling recrystallization annealing treatment on properties of an initial aged deformed GH4169 superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142232	5.3	2
198	Spheroidization and dynamic recrystallization mechanisms of a novel HIPed P/M superalloy during hot deformation. <i>Journal of Alloys and Compounds</i> , 2022 , 164909	5.7	4
197	An innovative annealing treatment method and its mechanism to refine deformed mixed grains of initial aged GH4169 superalloy. <i>Journal of Alloys and Compounds</i> , 2022 , 907, 164325	5.7	1
196	High-temperature deformation behavior and recrystallization mechanism of a near beta titanium alloy Ti-55511 in β phase region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143335	5.3	1
195	Evolution of Annealing Twins in a Hot Deformed Nickel-Based Superalloy.. <i>Materials</i> , 2021 , 15,	3.5	1
194	Microstructure Evolution and a Unified Constitutive Model of Ti-55511 Alloy Compressed at Stepped Strain Rates. <i>Materials</i> , 2021 , 14,	3.5	5
193	Effects of Deformation Processing Parameters on the Microstructure Evolution and Microhardness of GH4169 Superalloy during Annealing Treatment. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100104	3.5	2
192	Effect of initial mixed grain microstructure state of deformed Ni-based superalloy on its refinement behavior during two-stage annealing treatment. <i>Materials Characterization</i> , 2021 , 176, 111130	3.9	8
191	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
190	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
189	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
188	An Enhanced Johnson-Cook Model for Hot Compressed A356 Aluminum Alloy. <i>Advanced Engineering Materials</i> , 2021 , 23, 2000704	3.5	10
187	Stacked Auto-Encoder Network to Predict Tensile Deformation Behavior of a Typical Nickel-Based Superalloy Considering Portevin-Le Chatelier Effects. <i>Metals and Materials International</i> , 2021 , 27, 254-261	3.4	2
186	Dislocation Density-Based Model and Stacked Auto-Encoder Model for Ti-55511 Alloy with Basket-Weave Microstructures Deformed in β Region. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001307	3.5	4
185	Localised edge-region-based active contour for medical image segmentation. <i>IET Image Processing</i> , 2021 , 15, 1567-1582	1.7	2
184	Dynamic Softening Mechanism and an Improved Unified Constitutive Model for an Al-Cu-Mn-Be-Zr Alloy during Warm Deformation. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100015	3.5	3

183	Effects of Aging Treatment on Corrosion Behavior of a Tensile Deformed Al-Cu-Mn-Fe-Zr Alloy in 3.5% NaCl Solution. <i>Materials</i> , 2021 , 14,	3.5	1
182	A unified dislocation density-based model for an aged polycrystalline Ni-based superalloy considering the coupled effects of complicate deformation mechanisms and initial β phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 827-142062	5.3	7
181	Microstructural Evolution of Ti-55511 Titanium Alloy During Quasi-Beta Forging. <i>Minerals, Metals and Materials Series</i> , 2021 , 1189-1197	0.3	
180	The positron and mechanical parameters of a cold-worked aluminum alloy (3004) Using PALT, PADBT and HV**. <i>Journal of the Mechanical Behavior of Materials</i> , 2021 , 30, 292-303	1.9	
179	Creep Characteristics and Fracture Mechanisms of a Ni-Based Superalloy with β Phases at Intermediate Temperatures. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000144	3.5	10
178	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
177	A New Method to Increase the Spheroidization Rate of Lamellar β Microstructure during Hot Deformation of a Ti β Al β V Alloy. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000447	3.5	5
176	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
175	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
174	Cu/Li Ratio on the Microstructure Evolution and Corrosion Behaviors of AlCuLiMg Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 1201-1216	2.5	3
173	Deformation Behavior and Precipitation Features in a Stretched Al-Cu Alloy at Intermediate Temperatures. <i>Materials</i> , 2020 , 13,	3.5	12
172	Effects of solution time and cooling rate on microstructures and mechanical properties of 2219 Al alloy for a larger spun thin-wall ellipsoidal head. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 3566-3577	5.5	10
171	Precipitation of Secondary Phase and Phase Transformation Behavior of a Solution-Treated Ti β Al β V Alloy during High-Temperature Aging. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901436	3.5	15
170	The dynamic responses of lamellar and equiaxed near β Ti alloys subjected to multi-pass cross rolling. <i>Journal of Materials Science and Technology</i> , 2020 , 43, 220-229	9.1	10
169	Marginal-restraint mandrel-free spinning process for thin-walled ellipsoidal heads. <i>Advances in Manufacturing</i> , 2020 , 8, 189-203	2.7	3
168	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
167	Influences of feed rate and wall thickness reduction on the microstructures of thin-walled Hastelloy C-276 cylindrical parts during staggered spinning. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 106, 3809-3821	3.2	6
166	Hot Tensile Deformation Mechanism and Dynamic Softening Behavior of Ti β Al β V Alloy with Thick Lamellar Microstructures. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901193	3.5	25

165	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
164	Effects of spinning parameters on microstructures of ellipsoidal heads during marginal-restraint mandrel-free spinning. <i>Advances in Manufacturing</i> , 2020 , 8, 457-472	2.7	1
163	Constitutive Model and Processing Maps for a Ti-55511 Alloy in β Region. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900930	3.5	15
162	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
161	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
160	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
159	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
158	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
157	Precipitation and dissolution behaviors of β 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
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	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
154	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
153	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
152	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
151	Online optimizing hot forming parameters for alloy parts based on action-dependent heuristic dynamic programming. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 3745-3757	3.2	5
150	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
149	Annealing Treatment Methods and Mechanisms for Refining Mixed and Coarse Grains in a Solution Treatment Nickel-Based Superalloy. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900558	3.5	12
148	Effects of solution temperature and cooling rate on β phases and mechanical properties of a forged Ti-55511 alloy. <i>Materials Research Express</i> , 2019 , 6, 1165h2	1.7	9

147	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
146	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
145	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
144	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
143	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
142	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
141	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
140	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
139	Effect of Post-deformation Annealing Treatment on the Microstructural Evolution of a Cold-Worked Corrosion-Resistant Superalloy (CRSA) Steel. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 1168-1176	1.6	2
138	Effects of creep-aging parameters on aging precipitates of a two-stage creep-aged Al ₇₀ Ni ₁₀ Mg ₁₀ Ti alloy under the extra compressive stress. <i>Journal of Alloys and Compounds</i> , 2018 , 743, 448-455	5.7	20
137	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
136	Investigation on strain dependence of metadynamic recrystallization behaviors of GH4169 superalloy. <i>Vacuum</i> , 2018 , 149, 1-11	3.7	23
135	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
134	A Yield Stress Model for a Solution-Treated Ni-Based Superalloy during Plastic Deformation. <i>High Temperature Materials and Processes</i> , 2018 , 37, 849-856	0.9	2
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	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
131	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
130	Dissolution mechanisms and kinetics of γ phase in an aged Ni-based superalloy in hot deformation process. <i>Materials and Design</i> , 2018 , 156, 262-271	8.1	43

129	Modeling the two-stage creep-aging behaviors of an Al-Cu-Mg alloy. <i>Materials Research Express</i> , 2018 , 5, 096514	1.7	5
128	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
127	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
126	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
125	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
124	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
123	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
122	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
121	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
120	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
119	Influences of Initial Microstructures on Portevin-Le Chatelier Effect and Mechanical Properties of a Ni-Fe-Cr-Base Superalloy. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800234	3.5	14
118	Hot deformation behaviors of a solution-treated Ni-based superalloy under constant and changed strain rates. <i>Vacuum</i> , 2018 , 155, 531-538	3.7	9
117	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
116	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
115	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
114	A comparative study on phenomenon and deep belief network models for hot deformation behavior of an Al ₇₀ Ni ₂₀ Mg ₁₀ Ti alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	38
113	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
112	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

111	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
110	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
109	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
108	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
107	Kinetics equations and microstructural evolution during metadynamic recrystallization in a nickel-based superalloy with δ phase. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 971-978	5.7	46
106	Dynamic recrystallization behaviors of typical solution-treated and aged Ni-based superalloy under stepped strain rates. <i>Procedia Engineering</i> , 2017 , 207, 2125-2130		4
105	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
104	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
103	Effects of initial δ phase (Ni3Nb) 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
102	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
101	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
100	Corrosion resistance of a two-stage stress-aged AlCuMg alloy: Effects of external stress. <i>Journal of Alloys and Compounds</i> , 2016 , 661, 221-230	5.7	19
99	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
98	EBSD analysis of evolution of dynamic recrystallization grains and δ phase in a nickel-based superalloy during hot compressive deformation. <i>Materials and Design</i> , 2016 , 97, 13-24	8.1	173
97	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
96	The nonlinear unloading behavior of a typical Ni-based superalloy during hot deformation: a unified elasto-viscoplastic constitutive model. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	6
95	The nonlinear unloading behavior of a typical Ni-based superalloy during hot deformation: a new elasto-viscoplastic constitutive model. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	9
94	Study of Flow Softening Mechanisms of a Nickel-Based Superalloy With δ Phase. <i>Archives of Metallurgy and Materials</i> , 2016 , 61, 1537-1546		9

93	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
92	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
91	Effects of pre-treatments on precipitate microstructures and creep-rupture behavior of an Al-Zn-Mg-Cu alloy. <i>Journal of Materials Research</i> , 2016 , 31, 1286-1295	2.5	10
90	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
89	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
88	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
87	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
86	A novel constitutive model for hot deformation behaviors of Ti8Al8V alloy based on probabilistic method. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	38
85	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
84	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
83	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
82	New Constitutive Model for Hot Deformation Behaviors of Ni-Based Superalloy Considering the Effects of Initial Phase. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 3527-3538	1.6	33
81	EBSD study of a hot deformed nickel-based superalloy. <i>Journal of Alloys and Compounds</i> , 2015 , 640, 101-113	4.73	338
80	Microstructural evolution of a nickel-based superalloy during hot deformation. <i>Materials & Design</i> , 2015 , 77, 41-49		116
79	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
78	Effects of two-stage creep-aging processing on mechanical properties of an AlCuMg alloy. <i>Materials & Design</i> , 2015 , 79, 127-135		25
77	New constitutive model for high-temperature deformation behavior of inconel 718 superalloy. <i>Materials & Design</i> , 2015 , 74, 108-118		86
76	Effects of initial phase on flow behaviors and dynamically recrystallized grain size of a nickel-based superalloy. <i>Advances in Materials and Processing Technologies</i> , 2015 , 1, 84-97	0.8	1

75	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
74	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
73	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
72	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
71	A New Method for Controlling Billet Temperature During Isothermal Die Forging of a Complex Superalloy Casing. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 3549-3557	1.6	5
70	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
69	A physically-based constitutive model for a typical nickel-based superalloy. <i>Computational Materials Science</i> , 2014 , 83, 282-289	3.2	183
68	Dynamic recrystallization behavior of a typical nickel-based superalloy during hot deformation. <i>Materials & Design</i> , 2014 , 57, 568-577		321
67	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
66	Hot tensile deformation behaviors and constitutive model of an AlZnMgCu alloy. <i>Materials & Design</i> , 2014 , 59, 141-150		112
65	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
64	Constitutive models for high-temperature flow behaviors of a Ni-based superalloy. <i>Materials & Design</i> , 2014 , 59, 115-123		138
63	Effect of creep-aging processing on corrosion resistance of an AlZnMgCu alloy. <i>Materials & Design</i> , 2014 , 61, 228-238		42
62	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
61	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
60	Finite Element Simulation of the Hot Deformation Behavior of AA7075 Using a Coupled Thermo-Mechanical Crystal Plasticity Constitutive Model. <i>Applied Mechanics and Materials</i> , 2014 , 553, 82-87	0.3	2
59	Hot tensile deformation behaviors and constitutive model of 42CrMo steel. <i>Materials & Design</i> , 2014 , 53, 349-356		50
58	Hot tensile deformation behaviors and fracture characteristics of a typical Ni-based superalloy. <i>Materials & Design</i> , 2014 , 55, 949-957		131

57	Effects of initial 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
56	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
55	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
54	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
53	Hot deformation and processing map of a typical AlZnMgCu alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 550, 438-445	5.7	201
52	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
51	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
50	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
49	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
48	Hot tensile deformation and fracture behaviors of AZ31 magnesium alloy. <i>Materials & Design</i> , 2013 , 49, 209-219		118
47	A new phenomenological constitutive model for hot tensile deformation behaviors of a typical AlCuMg alloy. <i>Materials & Design</i> , 2013 , 52, 118-127		45
46	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
45	Creep and Creep-rupture Behavior of 2124-T851 Aluminum Alloy. <i>High Temperature Materials and Processes</i> , 2013 , 32, 533-540	0.9	12
44	Modeling the creep behavior of 2024-T3 Al alloy. <i>Computational Materials Science</i> , 2013 , 67, 243-248	3.2	38
43	Asymmetric Cyclic Deformation Behaviors of Hot-Rolled AZ91 Magnesium Alloy in Rolling Direction. <i>Advanced Materials Research</i> , 2013 , 712-715, 38-41	0.5	
42	A phenomenological constitutive model for high temperature flow stress prediction of AlCuMg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 534, 654-662	5.3	106
41	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
40	Hot compressive deformation behavior of 7075 Al alloy under elevated temperature. <i>Journal of Materials Science</i> , 2012 , 47, 1306-1318	4.3	87

39	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
38	Precipitation in Al-Cu-Mg alloy during creep exposure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 796-800	5.3	62
37	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
36	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
35	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
34	Effects of stretching processing parameters on the mean elongation ratio and maximum spread ratio of heavy forgings. <i>Journal of Materials Science</i> , 2011 , 46, 7536-7544	4.3	
33	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
32	Uniaxial ratchetting behavior of anisotropic conductive adhesive film under cyclic tension. <i>Polymer Testing</i> , 2011 , 30, 8-15	4.5	64
31	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
30	Ultrasonic bond process for polymer-based anisotropic conductive film joints. Part 2: Application in chip-on-FR4 board assemblies. <i>Polymer Testing</i> , 2011 , 30, 449-456	4.5	11
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	Study of metadynamic recrystallization behaviors in a low alloy steel. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 2477-2482	5.3	80

21	Effects of deformation temperatures on stress/strain distribution and microstructural evolution of deformed 42CrMo steel. <i>Materials & Design</i> , 2009 , 30, 908-913		66
20	Microstructural evolution in 42CrMo steel during compression at elevated temperatures. <i>Materials Letters</i> , 2008 , 62, 2132-2135	3.3	84
19	Constitutive modeling for elevated temperature flow behavior of 42CrMo steel. <i>Computational Materials Science</i> , 2008 , 42, 470-477	3.2	461
18	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
17	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
16	Study of static recrystallization kinetics in a low alloy steel. <i>Computational Materials Science</i> , 2008 , 44, 316-321	3.2	94
15	Reliability of Anisotropic Conductive Adhesive Joints in Electronic Packaging Applications. <i>Journal of Adhesion Science and Technology</i> , 2008 , 22, 1631-1657	2	20
14	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
13	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
12	Prediction of 42CrMo steel flow stress at high temperature and strain rate. <i>Mechanics Research Communications</i> , 2008 , 35, 142-150	2.2	238
11	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
10	Investigation of the Moisture-Desorption Characteristics of Epoxy Resin. <i>Journal of Polymer Research</i> , 2007 , 13, 369-374	2.7	28
9	Effects of hygrothermal aging on epoxy-based anisotropic conductive film. <i>Materials Letters</i> , 2006 , 60, 2958-2963	3.3	61
8	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
7	Expert system for integrity assessment of piping containing defects. <i>Expert Systems With Applications</i> , 2006 , 30, 149-155	7.8	2
6	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
5	Investigation of moisture diffusion in epoxy system: Experiments and molecular dynamics simulations. <i>Chemical Physics Letters</i> , 2005 , 412, 322-326	2.5	90
4	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

3	Probabilistic fracture failure analysis of nuclear piping containing defects using R6 method. <i>Nuclear Engineering and Design</i> , 2004 , 229, 237-246	1.8	11
2	Effects of Stress-Aging Pretreatment on Hot Deformation Behavior and Microstructure Evolution of a NiCrNbMoTi Alloy. <i>Advanced Engineering Materials</i> , 2100571	3.5	2
1	Residual-stress relaxation mechanism and model description of 5052H32 Al alloy spun ellipsoidal heads during annealing treatment. <i>Advances in Manufacturing</i> , 1	2.7	2