Li-hua Zhan

List of Publications by Year
in descending order

80	1,737	279487 23	301761 39
papers	citations	h-index	g-index

81	81	81	585
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Creep Age Forming of Ultra-Large Structural Aluminum Components. , 2022, , 308-319.		0
2	Effect of Stress Relaxation Aging on Precipitation Kinetics of Alâ€“Cuâ€“Li Alloy. Journal of Materials Engineering and Performance, 2022, 31, 3774-3783.	1.2	2
3	Strong in-plane anisotropy of creep ageing behavior in largely pre-deformed Al-Cu alloy: Experiments and constitutive modeling. International Journal of Plasticity, 2022, 152, 103245.	4.1	20
4	Effect of forming process on mechanical and interfacial properties for thermoplastic composite I-stiffened structures. High Performance Polymers, 2022, 34, 282-291.	0.8	0
5	Creep aging behavior and performance of Al-Zn-Mg-Cu alloys under different parameters in retrogression aging treatment. Journal of Central South University, 2022, 29, 986-998.	1.2	6
6	Experimental study on complex stress effect for stress relaxation aging behavior of Al-Cu-Li alloy. Journal of Materials Research and Technology, 2022, 18, 3785-3797.	2.6	3
7	Temperature-dependent creep aging behavior of 2A14 aluminum alloy. Journal of Materials Research and Technology, 2022, 19, 1343-1354.	2.6	6
8	Improved creep forming efficiency and retained performance via a novel two-stage creep aging process of Alâ€“Znâ€“Mgâ€“Cu alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 851, 143581.	2.6	5
9	Effect of vibration treatment on interfacial strength of microwave curing process for advanced composites. Composite Interfaces, 2021, 28, 237-253.	1.3	7
10	Optimization of molding process parameters for CF/PEEK composites based on Taguchi method. Composites and Advanced Materials, 2021, 30, 263498332110018.	0.5	5
11	Analysis of the skin wrinkling in out-of-plane joints of CFRP hat-shaped structure. Journal of Polymer Engineering, 2021, 41, 310-319.	0.6	0
12	Corrosion damage evolution and mechanical properties of carbon fiber reinforced aluminum laminate. Journal of Central South University, 2021, 28, 657-668.	1.2	10
13	The effect of cooling rate on crystallization behavior and tensile properties of CF/PEEK composites. Journal of Polymer Engineering, 2021, 41, 423-430.	0.6	6
14	A unified constitutive model for multiphase precipitation and multi-stage creep ageing behavior of Al-Li-S4 alloy. Transactions of Nonferrous Metals Society of China, 2021, 31, 1217-1234.	1.7	7
15	Thermomechanical pretreatment of Al-Zn-Mg-Cu alloy to improve formability and performance during creep-age forming. Journal of Materials Processing Technology, 2021, 293, 117089.	3.1	26
16	Creep ageing behaviour assisted by electropulsing under different stresses for Alâ^'Cuâ^'Li alloy. Transactions of Nonferrous Metals Society of China, 2021, 31, 1916-1929.	1.7	3
17	Influence of temperature on creep behavior, mechanical properties and microstructural evolution of an Al-Cu-Li alloy during creep age forming. Journal of Central South University, 2021, 28, 2285-2294.	1.2	11
18	Interface Controlled Micro- and Macro-Mechanical Properties of Vibration Processed Carbon Fiber/Epoxy Composites. Polymers, 2021, 13, 2764.	2.0	3

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19	Tension-compression asymmetry of stress-relaxation ageing behavior of AA2219 alloy over a wide range of stress levels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 823, 141730.	2.6	11
20	Study of desirable precipitate-strengthening effects on friction-stir welded joints of third-generation Alâ€“Cuâ€“Li alloys. Philosophical Magazine Letters, 2021, 101, 474-483.	0.5	4
21	Enhancing creep formability and comprehensive property in Alâ€“Mgâ€“Si alloy by combinatorial pre-ageing and large pre-deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 141967.	2.6	15
22	Reversion of natural ageing and restoration of quick bake-hardening response in Al-Zn-Mg-Cu alloy. Journal of Materials Science and Technology, 2021, 95, 88-94.	5.6	19
23	Strong stress-level dependence of creep-ageing behavior in Alâ€“Cuâ€“Li alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140381.	2.6	26
24	A unique method for curing composite materials by introducing vibration treatment into the hybrid heating process. Journal of Central South University, 2021, 28, 2961-2972.	1.2	4
25	The effect of creep aging on localized corrosion resistance of AA2060 alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 309-319.	0.8	2
26	Effects of surface pre-treatment and adhesive quantity on interface characteristics of fiber metal laminates. Composite Interfaces, 2020, 27, 829-843.	1.3	14
27	Stress-relaxation ageing behavior and microstructural evolution under varying initial stresses in an Alâ€“Cu alloy: Experiments and modeling. International Journal of Plasticity, 2020, 127, 102646.	4.1	53
28	Anisotropy in creep ageing behavior of textured Al-Cu alloy under different stress states. Materials Characterization, 2020, 168, 110539.	1.9	17
29	Creep aging behavior of retrogression and re-aged 7150 aluminum alloy. Transactions of Nonferrous Metals Society of China, 2020, 30, 2599-2612.	1.7	9
30	Creep behavior and mechanical properties of Al-Li-S4 alloy at different aging temperatures. Journal of Central South University, 2020, 27, 1168-1175.	1.2	8
31	Analysis of porosity and mechanical behavior of composite T-joints produced by random vibration-assisted vacuum processing. Iranian Polymer Journal (English Edition), 2020, 29, 759-770.	1.3	8
32	Significant effect of vibration treatment on microwave curing carbon fiber reinforced plastic. Journal of Reinforced Plastics and Composites, 2020, 39, 373-383.	1.6	6
33	Study on tensile/compressive asymmetry in creep ageing behavior of Alâ€“Cu alloy under different stress levels. Journal of Alloys and Compounds, 2020, 843, 156157.	2.8	25
34	The effect of moulding process parameters on interlaminar properties of CF/PEEK composite laminates. High Performance Polymers, 2020, 32, 835-841.	0.8	15
35	Natural-ageing-enhanced precipitation near grain boundaries in high-strength aluminum alloy. Journal of Materials Science and Technology, 2020, 46, 107-113.	5.6	48
36	Large creep formability and strengthâ€“ductility synergy enabled by engineering dislocations in aluminum alloys. International Journal of Plasticity, 2020, 134, 102774.	4.1	50

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37	Stabilizing Alâ€“Mgâ€“Siâ€“Cu alloy by precipitation nano-phase control. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 769, 138513.	2.6	15
38	Study on Multi-Step Creep Aging Behavior of Al-Li-S4 Alloy. Metals, 2019, 9, 807.	1.0	4
39	Variation of voids and inter-layer shear strength of advanced polymer-matrix composites at different pressures with high-pressure microwave. Journal of Engineered Fibers and Fabrics, 2019, 14, 155892501986395.	0.5	2
40	Creep Mechanisms of an Alâ€“Cuâ€“Mg Alloy at the Macro- and Micro-Scale: Effect of the Sâ€²/S Precipitate. Materials, 2019, 12, 2907.	1.3	10
41	Effect of random vibration-assisted vacuum processing on void development and interfacial properties in composites. Journal of Reinforced Plastics and Composites, 2019, 38, 871-881.	1.6	0
42	Pre-strain-dependent natural ageing and its effect on subsequent artificial ageing of an Al-Cu-Li alloy. Journal of Alloys and Compounds, 2019, 790, 8-19.	2.8	61
43	Effect of random vibration processing on void content in composite laminates. Polymer Composites, 2019, 40, 3122-3130.	2.3	10
44	Evaluating random vibration assisted vacuum processing of carbon/epoxy composites in terms of interlaminar shear strength and porosity. Journal of Composite Materials, 2019, 53, 2367-2376.	1.2	7
45	Stress Relaxation Aging Behavior and Constitutive Modelling of AA7150-T7751 under Different Temperatures, Initial Stress Levels and Pre-Strains. Metals, 2019, 9, 1215.	1.0	11
46	Formation of a new intermediate phase and its evolution toward Î¸' during aging of pre-deformed Al-Cu alloys. Journal of Materials Science and Technology, 2019, 35, 885-890.	5.6	25
47	Anisotropy in creep-ageing behavior of textured Al-Cu-Mg alloy. International Journal of Lightweight Materials and Manufacture, 2018, 1, 40-46.	1.3	9
48	Deformation behavior of Al-Cu-Mg alloy during non-isothermal creep age forming process. Journal of Materials Processing Technology, 2018, 255, 26-34.	3.1	26
49	Investigation on the creep-age forming of an integrally-stiffened AA2219 alloy plate: experiment and modeling. International Journal of Advanced Manufacturing Technology, 2018, 95, 2015-2025.	1.5	15
50	Effect of cure pressure on microstructure and interlaminar shear strength properties of carbon fiberâ€“reinforced plastics with microwave curing. High Performance Polymers, 2018, 30, 1084-1093.	0.8	9
51	Cohesive zone modeling of the autoclave pressure effect on the delamination behavior of composite laminates. Journal of Reinforced Plastics and Composites, 2018, 37, 1468-1480.	1.6	6
52	Solute Sn-induced formation of composite Î²â€²/Î²â€³ precipitates in Al-Mg-Si alloy. Scripta Materialia, 2018, 155, 68-72.	2.6	42
53	Stress-level-dependency and bimodal precipitation behaviors during creep ageing of Al-Cu alloy: Experiments and modeling. International Journal of Plasticity, 2018, 110, 183-201.	4.1	88
54	Multiple precipitation reactions and formation of Î¸'-phase in a pre-deformed Alâ€“Cu alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 733, 28-38.	2.6	58

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55	Study on Monitoring of Stress and Strain during Curing Process of Fiber Metal Laminates. , 2018, , .		0
56	Effect of Heating Rate on Interlaminar Shear Strength Property of Carbon Fiber-reinforced Composite with High-pressure Microwave Curing. , 2018, , .		0
57	Effects of uniaxial creep ageing on the mechanical properties and micro precipitates of Al-Li-S4 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 688, 272-279.	2.6	40
58	Effect of heating rate on creep aging behavior of Al-Cu-Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 688, 488-497.	2.6	29
59	Effect of pre-deformation on creep age forming of 2219 aluminum alloy: Experimental and constitutive modelling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 683, 227-235.	2.6	54
60	The effects of pre-deformation on the creep aging behavior and mechanical properties of Al-Li-S4 alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 703, 496-502.	2.6	45
61	Effect of pre-strain on creep aging behavior of 2524 aluminum alloy. Journal of Alloys and Compounds, 2017, 691, 564-571.	2.8	52
62	Void content and interfacial properties of composite laminates under different autoclave cure pressure. Composite Interfaces, 2017, 24, 529-540.	1.3	29
63	Experimental research on creep aging behavior of Al-Cu-Mg alloy with tensile and compressive stresses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 54-62.	2.6	53
64	A 3D computational meshfree model for the mechanical and thermal buckling analysis of rectangular composite laminated plates with embedded delaminations. Science and Engineering of Composite Materials, 2017, 24, 937-949.	0.6	0
65	A Study of AA2219 Plate Friction Stir Welding Features with Different Initial Tempers. , 2017, , .		0
66	The Influence of Different External Fields on Aging Kinetics of 2219 Aluminum Alloy. Metals, 2016, 6, 201.	1.0	6
67	The Establishment of Surface Roughness as Failure Criterion of Alâ€“Li Alloy Stretch-Forming Process. Metals, 2016, 6, 13.	1.0	4
68	Stress relaxation ageing behaviour and constitutive modelling of a 2219 aluminium alloy under the effect of an electric pulse. Journal of Alloys and Compounds, 2016, 679, 316-323.	2.8	44
69	Dependence of creep age formability on initial temper of an Al-Zn-Mg-Cu alloy. Chinese Journal of Aeronautics, 2016, 29, 1445-1454.	2.8	23
70	A novel method for curing carbon fiber reinforced plastics by high-pressure microwave. Fibers and Polymers, 2016, 17, 2143-2152.	1.1	15
71	Effect of pre-deformation on creep age forming of AA2219 plate: Springback, microstructures and mechanical properties. Journal of Materials Processing Technology, 2016, 229, 697-702.	3.1	58
72	Effect of pre-deformation on aging creep of Alâ€“Liâ€“S4 alloy and its constitutive modeling. Transactions of Nonferrous Metals Society of China, 2015, 25, 1383-1390.	1.7	23

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73	Constitutive modeling and springback simulation for 2524 aluminum alloy in creep age forming. Transactions of Nonferrous Metals Society of China, 2015, 25, 3048-3055.	1.7	15
74	Effects of Electric Pulse Current on the Aging Kinetics of 2219 Aluminum Alloy. Advances in Materials Science and Engineering, 2014, 2014, 1-8.	1.0	6
75	Effects of process parameters on mechanical properties and microstructures of creep aged 2124 aluminum alloy. Transactions of Nonferrous Metals Society of China, 2014, 24, 2232-2238.	1.7	34
76	A Research on the Creep Age Forming of 2524 Aluminum Alloy: Springback, Mechanical Properties, and Microstructures. Advances in Mechanical Engineering, 2014, 6, 707628.	0.8	5
77	Springback compensation algorithm for tool design in creep age forming of large aluminum alloy plate. , 2013, , .		1
78	A review of the development of creep age forming: Experimentation, modelling and applications. International Journal of Machine Tools and Manufacture, 2011, 51, 1-17.	6.2	207
79	Experimental studies and constitutive modelling of the hardening of aluminium alloy 7055 under creep age forming conditions. International Journal of Mechanical Sciences, 2011, 53, 595-605.	3.6	141
80	Rheological behavior of continuous roll casting process of aluminum alloy. Central South University, 2005, 12, 629-634.	0.5	1