Chong Li

List of Publications by Year in descending order

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86 papers	2,188 citations	279487 23 h-index	264894 42 g-index
86 all docs	86 docs citations	86 times ranked	1318 citing authors

#	Article	IF	Citations
1	Lattice mismatch in Ni3Al-based alloy for efficient oxygen evolution. Journal of Materials Science and Technology, 2022, 106, 19-27.	5.6	10
2	Microstructure-dependent coarsening behavior of Î³â€² precipitates in CoNi-based superalloys. Intermetallics, 2022, 140, 107396.	1.8	3
3	Modification Mechanism and Uniaxial Fatigue Performances of A356.2 Alloy Treated by Al-Sr-La Composite Refinement-Modification Agent. Acta Metallurgica Sinica (English Letters), 2022, 35, 901-914.	1.5	2
4	Hot deformation behaviour and microstructure evolution of Al-3%Mg2Si alloy. Materials Characterization, 2022, 183, 111623.	1.9	22
5	Short-term corrosion behavior of polycrystalline Ni3Al-based superalloy in sulfur-containing atmosphere. Intermetallics, 2022, 142, 107446.	1.8	4
6	The effect of solution temperature on the precipitates evolution and aging hardening response of Al-15%Mg2Si(-1%Cu) alloys. Journal of Materials Research and Technology, 2022, 17, 1330-1337.	2.6	7
7	Effect of Cr and W addition on the oxidation behavior of Niâ€“8%Al alloy at 1000ÂÂ°C. Vacuum, 2022, 200, 111044.	1.6	5
8	A new type-Î³â€²/Î³â€²â€² coprecipitation behavior and its evolution mechanism in wrought Ni-based ATI 718Plus superalloy. Journal of Materials Science and Technology, 2022, 119, 98-110.	5.6	15
9	Effect of Heat Treatment on the Microstructure and Mechanical Properties of Alâ€“9Siâ€“0.4Mgâ€“0.1Cu Alloy. Advanced Engineering Materials, 2022, 24, .	1.6	2
10	Precipitates evolution and tensile behavior of wrought Ni-based ATI 718Plus superalloy during long-term thermal exposure. Science China Technological Sciences, 2022, 65, 1283-1299.	2.0	6
11	Microstructure evolution and mechanical properties of a Fe, Cr-rich multiphase Ni3Al-based superalloy during transient liquid phase bonding process. Journal of Materials Research and Technology, 2022, 19, 2837-2847.	2.6	6
12	Precipitate coarsening and its effects on the hot deformation behavior of the recently developed Î³'-strengthened superalloys. Journal of Materials Science and Technology, 2021, 67, 95-104.	5.6	104
13	Isothermal oxidation behavior of micro-regions in multiphase Ni3Al-based superalloys. Materials Characterization, 2021, 171, 110748.	1.9	8
14	Effect of solution cooling rate on microstructure evolution and mechanical properties of Ni-based superalloy ATI 718Plus. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 812, 141113.	2.6	16
15	Effects of heat treatment on the microstructure and mechanical properties of Ni3Al-based superalloys: A review. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 553-566.	2.4	19
16	The precipitation of Î· phase during the solution treatments of Allvac 718Plus. Materials Characterization, 2021, 176, 111142.	1.9	13
17	The contribution of aluminides to strength of Alâ€“Mg2Siâ€“Cuâ€“Ni alloys at room and elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 817, 141381.	2.6	9
18	Effect of interlayer on microstructure and mechanical properties of diffusional-bonded Ni3Al-based superalloy/S31042 steel joint. Journal of Manufacturing Processes, 2021, 72, 252-261.	2.8	7

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19	Microstructural evolution and phase transformation of Ni3Al-based superalloys after thermal exposure. Vacuum, 2020, 171, 109038.	1.6	12
20	Effect of structural order on oxidation kinetics and oxide phase evolution of Alâ€“Zr alloys. Corrosion Science, 2020, 165, 108407.	3.0	12
21	Enhancing tensile properties of wrought Ni-based superalloy ATI 718Plus at elevated temperature via morphology control of Î· phase. Materials Characterization, 2020, 169, 110547.	1.9	13
22	Creep behaviors of multiphase Ni3Al-based intermetallic alloy after 1000ÂÂ°C-1000Âh long-term aging at intermediate temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139701.	2.6	5
23	Effect of Cu addition on precipitation and age-hardening response of an Al-15%Mg2Si alloy. Materials Characterization, 2020, 169, 110611.	1.9	17
24	Characterization of Î³â€² precipitate and Î³/Î³â€² interface in polycrystalline Ni3Al-based superalloys. Vacuum, 2020, 176, 109310.	1.6	13
25	Evaluation on elevated-temperature stability of modified 718-type alloys with varied phase configurations. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 1123-1132.	2.4	18
26	Microscopic Investigation of High-Temperature Oxidation of hcp-ZrAl2. Oxidation of Metals, 2020, 94, 431-445.	1.0	1
27	Strain-modulated Ni3Al alloy promotes oxygen evolution reaction. Journal of Alloys and Compounds, 2020, 844, 156094.	2.8	21
28	Interactions between interstitial oxygen and substitutional niobium atoms in Tiâ€“Nbâ€“O BCC alloys: First-principles calculations. AIP Advances, 2020, 10, 025309.	0.6	4
29	Mechanical Performances of Al-Si-Mg Alloy with Dilute Sc and Sr Elements. Materials, 2020, 13, 665.	1.3	3
30	Effect of Ti addition on high-temperature oxidation behavior of Coâ€“Ni-based superalloy. Journal of Iron and Steel Research International, 2020, 27, 1179-1189.	1.4	21
31	Corrosion behavior of Al-15%Mg2Si alloy with 1% Ni addition. Results in Physics, 2020, 17, 103129.	2.0	9
32	Microstructure-dependent oxidation behavior of Ni-Al single-crystal alloys. Journal of Materials Science and Technology, 2020, 52, 162-171.	5.6	15
33	The synthesis of composite powder precursorsviachemical processes for the sintering of oxide dispersion-strengthened alloys. Materials Chemistry Frontiers, 2019, 3, 1952-1972.	3.2	32
34	Formation and widening mechanisms of envelope structure and its effect on creep behavior of a multiphase Ni3Al-based intermetallic alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 763, 138158.	2.6	15
35	Precipitation and growth behavior of Î³â€² phase in Ni3Al-based superalloy under thermal exposure. Journal of Materials Science, 2019, 54, 13368-13377.	1.7	15
36	Precipitation of intersected plate-like Î³â€² phase in Î² and its effect on creep behavior of multiphase Ni3Al-based intermetallic alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 767, 138439.	2.6	10

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37	Effect of initial microstructure on the hot deformation behavior of a Ni3Al-based alloy. Intermetallics, 2019, 113, 106584.	1.8	16
38	Static coarsening behavior of a pre-deformed Ti2AlNb-based alloy during heat treatment. Vacuum, 2019, 169, 108934.	1.6	12
39	Microstructural evolution and constitutive models of 9CrMoCoB heat-resistant steel during high-temperature deformation. Journal of Iron and Steel Research International, 2019, 26, 1228-1239.	1.4	8
40	Precipitation Behavior of Spherical Î³â€² Phase in Eutectic Area of Ni 3 Alâ€Based Alloy. Advanced Engineering Materials, 2019, 21, 1801318.	1.6	5
41	Formation of multiply twinned martensite plates in rapidly solidified Ni3Al-based superalloys. Materials Letters, 2019, 250, 147-150.	1.3	9
42	Effect of deformation twinning on high-temperature performance of cold-rolled S31042 steel. Journal of Iron and Steel Research International, 2019, 26, 704-711.	1.4	2
43	Effect of dual aging treatments on phase transformation and microstructure in a pre-deformed Ti2AlNb-based alloy containing O + Î²/B2 structures. Vacuum, 2019, 164, 175-180.	1.6	16
44	Influences of solution cooling rate on microstructural evolution of a multiphase Ni3Al-based intermetallic alloy. Intermetallics, 2019, 109, 48-59.	1.8	24
45	Herringbone Structure and Significantly Enhanced Hardness in W-Modified Ti2AlNb Alloys by Spark Plasma Sintering. Metals and Materials International, 2019, 25, 1000-1007.	1.8	8
46	Coarsening behavior of Î³â€² precipitates in the Î³'+Î³ area of a Ni3Al-based alloy. Journal of Alloys and Compounds, 2019, 771, 526-533.	2.8	86
47	Microstructure evolution and phase transformations in Ti-22Al-25Nb alloys tailored by super-transus solution treatment. Vacuum, 2019, 161, 209-219.	1.6	57
48	Microstructural Feature and Evolution of Rapidly Solidified Ni3Al-Based Superalloys. Acta Metallurgica Sinica (English Letters), 2019, 32, 764-770.	1.5	9
49	Effect of annealing treatment on microstructure evolution and creep behavior of a multiphase Ni3Al-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 623-635.	2.6	68
50	Improving creep resistance of nickel-based superalloy Inconel 718 by tailoring gamma double prime variants. Scripta Materialia, 2019, 164, 66-70.	2.6	64
51	Evaluation of precipitation hardening in TiC-reinforced Ti2AlNb-based alloys. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 453-458.	2.4	9
52	Microstructure evolution behavior of Ni3Al (Î³â€²) phase in eutectic Î³-Î³â€² of Ni3Al-based alloy. Intermetallics, 2018, 98, 28-33.	1.8	24
53	Hot tensile behavior of cold-rolled Inconel 718 alloy at 650â€¯Â°C: The role of Î´ phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 722, 136-146.	2.6	77
54	Precipitation and growth behavior of mushroom-like Ni3Al. Materials Letters, 2018, 211, 5-8.	1.3	18

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55	Investigation on AlP as the heterogeneous nucleus of Mg2Si in Alâ€“Mg2Si alloys by experimental observation and first-principles calculation. Results in Physics, 2018, 8, 146-152.	2.0	16
56	Intermetallic phase evolution and strengthening effect in Alâ€“Mg2Si alloys with different Cu/Ni ratios. Materials Letters, 2018, 215, 254-258.	1.3	26
57	Morphology and quantitative analysis of O phase during heat treatment of hot-deformed Ti2AlNb-based alloy. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 1191-1200.	2.4	11
58	Deformation Mechanism of L1₂â€Î³â€² Phase in Bimodal Î³â€³â€Î³â€² Precipitation Hardened Inconel 718 Superalloy. Advanced Engineering Materials, 2018, 20, 1800652.	1.6	7
59	Precipitation behavior of WidmanstÃtten O phase associated with interface in aged Ti2AlNb-based alloys. Materials Characterization, 2018, 145, 413-422.	1.9	28
60	Effects of morphology of Mg powder precursor on phase formation and superconducting properties of Mg¹¹B₂ low activation superconductor. Journal of Materials Chemistry C, 2018, 6, 8069-8075.	2.7	5
61	Effects of Ti addition on microstructure and mechanical property of spark-plasma-sintered transformable 9Cr-ODS steels. Fusion Engineering and Design, 2018, 135, 88-94.	1.0	16
62	Mechanism for the formation of Z-phase in 25Cr-20Ni-Nb-N austenitic stainless steel. Materials Letters, 2018, 233, 16-19.	1.3	26
63	Effects of quenching-partitioning-tempering treatment on microstructure and mechanical performance of Nb-V-Ti microalloyed ultra-high strength steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 690, 283-293.	2.6	37
64	Effect of hot deformation on Î³â€³ and Î´ phase precipitation of Inconel 718 alloy during deformation&isothermal treatment. Journal of Alloys and Compounds, 2017, 716, 65-72.	2.8	84
65	Deformation behavior and processing maps of Ni 3 Al-based superalloy during isothermal hot compression. Journal of Alloys and Compounds, 2017, 712, 687-695.	2.8	90
66	Carbide precipitation in Nb-V-Ti microalloyed ultra-high strength steel during tempering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 683, 215-226.	2.6	101
67	Delta precipitation in wrought Inconel 718 alloy; the role of dynamic recrystallization. Materials Characterization, 2017, 133, 138-145.	1.9	35
68	Hot deformation behavior and microstructural evolution of Nbâ€“Vâ€“Ti microalloyed ultra-high strength steel. Journal of Materials Research, 2017, 32, 3777-3787.	1.2	13
69	Microstructural and mechanical properties development during quenching-partitioning-tempering process of Nb-V-Ti microalloyed ultra-high strength steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 705, 249-256.	2.6	23
70	Microstructural Characterization and Phase Separation Sequences During Solidification of Ni3Al-Based Superalloy. Acta Metallurgica Sinica (English Letters), 2017, 30, 949-956.	1.5	23
71	Correlation between Zn-Rich Phase and Corrosion/Oxidation Behavior of Snâ€“8Znâ€“3Bi Alloy. Metals, 2016, 6, 175.	1.0	2
72	Effects of cold rolling on the precipitation and the morphology of Î´-phase in Inconel 718 alloy. Journal of Materials Research, 2016, 31, 443-454.	1.2	14

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73	Precipitation behavior during high-temperature isothermal compressive deformation of Inconel 718 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 677, 515-521.	2.6	71
74	Effect of cold rolling and first precipitates on the coarsening behavior of Î³â€³-phases in Inconel 718 alloy. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 1087-1096.	2.4	22
75	Microstructure and corrosion behavior of Alâ€“10%Mg 2 Si cast alloy after heat treatment. Materials Characterization, 2016, 122, 142-147.	1.9	45
76	Acicular ferrite formation during isothermal holding in HSLA steel. Journal of Materials Science, 2016, 51, 3555-3563.	1.7	20
77	Effect of heat treatment on microstructure and mechanical property of Alâ€“10%Mg2Si alloy. Journal of Alloys and Compounds, 2016, 663, 16-19.	2.8	44
78	Processing maps and microstructural evolution of the type 347H austenitic heat-resistant stainless steel. Journal of Materials Research, 2015, 30, 2090-2100.	1.2	18
79	Precipitation behavior of type 347H heat-resistant austenitic steel during long-term high-temperature aging. Journal of Materials Research, 2015, 30, 3642-3652.	1.2	22
80	Corrosion behavior of Alâ€“Mg2Si alloys with/without addition of Alâ€“P master alloy. Materials Characterization, 2015, 110, 170-174.	1.9	48
81	Evaluation of cooling rate on electrochemical behavior of Snâ€“0.3Agâ€“0.9Zn solder alloy in 3.5Âwt% NaCl solution. Journal of Materials Science: Materials in Electronics, 2015, 26, 11-22.	1.1	30
82	Effects of cold rolling on the precipitation kinetics and the morphology evolution of intermediate phases in Inconel 718 alloy. Journal of Alloys and Compounds, 2015, 649, 949-960.	2.8	104
83	Effect of microstructure variation on the corrosion behavior of high-strength low-alloy steel in 3.5wt% NaCl solution. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 604-612.	2.4	43
84	Thermodynamic evaluation of Alâ€“Mg2Si with addition of Ni. Materials Letters, 2012, 68, 255-257.	1.3	12
85	Effect of Ni on eutectic structural evolution in hypereutectic Alâ€“Mg2Si cast alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 573-577.	2.6	53
86	Refinement and modification performance of Alâ€“P master alloy on primary Mg2Si in Alâ€“Mgâ€“Si alloys. Journal of Alloys and Compounds, 2008, 465, 145-150.	2.8	93