

Lin Song

List of Publications by Year in descending order

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534
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen absorption/desorption cycling performance of Mg-based alloys with in-situ formed Mg ₂ Ni and LaH (x=0.2, 3) nanocrystallines. Journal of Magnesium and Alloys, 2023, 11, 1180-1192.	11.9	16
2	Deformation and phase transformation behaviors of a high Nb-containing TiAl alloy compressed at intermediate temperatures. Journal of Materials Science and Technology, 2022, 102, 89-96.	10.7	18
3	$\frac{\partial}{\partial t} \left(\frac{\partial \rho}{\partial t} \right) = \frac{\partial}{\partial t} \left(\frac{\partial \rho}{\partial t} \right) + \frac{\partial}{\partial t} \left(\frac{\partial \rho}{\partial t} \right)$	11	11
4	Mechanisms of hydrides nucleation and the effect of hydrogen pressure induced driving force on de-/hydrogenation kinetics of Mg-based nanocrystalline alloys. International Journal of Hydrogen Energy, 2022, 47, 1063-1075.	7.1	8
5	Ameliorated microstructure and hydrogen absorption/desorption properties of novel Mg-Ni-La alloy doped with MWCNTs and Co nanoparticles. International Journal of Hydrogen Energy, 2022, 47, 18044-18057.	7.1	4
6	In- and ex-situ study of the deformation behavior of the δ phase in a Ti ₄ Al ₃ Nb alloy during high-temperature compression. Journal of Alloys and Compounds, 2022, , 165626.	5.5	1
7	Experimental Phase Equilibria and Isopleth Section of 8Nb-TiAl Alloys. Metals, 2021, 11, 1229.	2.3	6
8	Creep-induced δ phase precipitation and cavity formation in a cast 45.5Ti-45Al-9Nb-0.5B alloy. Journal of Alloys and Compounds, 2021, 875, 160106.	5.5	7
9	On the reversibility of the δ/δ' phase transformation in a high Nb containing TiAl alloy during high temperature deformation. Journal of Materials Science and Technology, 2021, 93, 96-102.	10.7	6
10	Microstructure and phase transformations of δ -Ti ₄ Al ₃ Nb based alloys after quenching and subsequent aging at intermediate temperatures. Journal of Alloys and Compounds, 2020, 821, 153387.	5.5	11
11	Precipitation of nanocrystalline LaH ₃ and Mg ₂ Ni and its effect on de-/hydrogenation thermodynamics of Mg-rich alloys. International Journal of Hydrogen Energy, 2020, 45, 32221-32233.	7.1	17
12	Tunable microstructure, de-/hydrogenation kinetics and thermodynamics performance of Mg-Ni-La-Ti-H systems. International Journal of Hydrogen Energy, 2020, 45, 6701-6712.	7.1	3
13	New insights into high-temperature deformation and phase transformation mechanisms of lamellar structures in high Nb-containing TiAl alloys. Acta Materialia, 2020, 186, 575-586.	7.9	65
14	Microstructure evolution and enhanced creep property of a high Nb containing TiAl alloy with carbon addition. Journal of Alloys and Compounds, 2019, 807, 151649.	5.5	30
15	Identification of Laves phases in a Zr or Hf containing γ -Co-base superalloy. Journal of Alloys and Compounds, 2019, 805, 880-886.	5.5	12
16	Microstructure, phase stability and element partitioning of γ -Co-9Al-9W-2X alloys in different annealing conditions. Journal of Alloys and Compounds, 2019, 787, 594-605.	5.5	23
17	Composition dependent microstructure evolution, activation and de-/hydrogenation properties of Mg-Ni-La alloys. International Journal of Hydrogen Energy, 2019, 44, 16745-16756.	7.1	24
18	Corrosion resistance and interfacial morphologies of a high Nb-containing TiAl alloy with and without thermal barrier coatings in molten salts. Corrosion Science, 2019, 156, 139-146.	6.6	22

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19	Microstructural evolution and hydrogen storage properties of a Ni-modified Mg15Al alloy. International Journal of Hydrogen Energy, 2019, 44, 10788-10799.	7.1	12
20	Evidence for deformation twinning of the D019- $\sqrt{2}$ phase in a high Nb containing TiAl alloy. Intermetallics, 2019, 109, 91-96.	3.9	25
21	Microstructure and absorption/desorption kinetics evolutions of Mg Ni Ce alloys during hydrogenation and dehydrogenation cycles. International Journal of Hydrogen Energy, 2018, 43, 8404-8414.	7.1	19
22	Hydride formation during cathodic charging and its effect on mechanical properties of a high Nb containing TiAl alloy. International Journal of Hydrogen Energy, 2018, 43, 8161-8169.	7.1	10
23	Precipitation behavior of γ'' phase and texture evolution of a forged Ti-45Al-8.5Nb-(W, B, Y) alloy during creep. Materials Characterization, 2018, 136, 41-51.	4.4	22
24	Nucleation behavior of γ'' phase in TiAl alloys at different elevated temperatures. Journal of Materials Science, 2018, 53, 5287-5295.	3.7	5
25	Coupling effects of deformation and thermal exposure on the precipitation behaviors of γ'' and γ' phases in a high Nb-containing TiAl alloy. Materials and Design, 2018, 148, 135-144.	7.0	12
26	Pressure Effect on Elastic Constants and Related Properties of Ti3Al Intermetallic Compound: A First-Principles Study. Materials, 2018, 11, 2015.	2.9	46
27	First-Principles Calculations on Structural Property and Anisotropic Elasticity of γ' -Ti4Nb3Al9 under Pressure. Materials, 2018, 11, 2025.	2.9	2
28	A comparative first-principles study of tetragonal TiAl and Ti4Nb3Al9 intermetallic compounds. Intermetallics, 2018, 101, 72-80.	3.9	13
29	Microstructure Evolution of a Ti-45Al-8.5Nb-0.2W-0.2B-0.02Y Alloy during Massive Transformation and Subsequent Annealing. Metals, 2018, 8, 89.	2.3	2
30	Evolution of B2(γ'') region in high-Nb containing TiAl alloy in intermediate temperature range. Intermetallics, 2017, 82, 32-39.	3.9	30
31	Quantitative study of surface relief produced by formation of lamellar microstructure in a γ' -TiAl based alloy. Materials Letters, 2017, 188, 134-137.	2.6	6
32	Precipitation behavior of the γ'' phase in an annealed high Nb-TiAl alloy. Journal of Alloys and Compounds, 2017, 701, 882-891.	5.5	22
33	In situ Observation of the Initial Stage of γ' Lamella Formation in Ti48Al2Cr2Nb Alloy. Advanced Engineering Materials, 2017, 19, 1600670.	3.5	2
34	Alloying Effects on the Phase Transformation Behaviors of the Orthorhombic and Ordered γ'' Phases in High Nb-TiAl Alloys. Advanced Engineering Materials, 2017, 19, 1700040.	3.5	2
35	Microstructure and hydrogen storage properties of Mg-Ni-Ce alloys with a long-period stacking ordered phase. Journal of Power Sources, 2017, 338, 91-102.	7.8	62
36	Ordinary dislocation configurations in high Nb-containing TiAl alloy deformed at high temperatures. Philosophical Magazine, 2017, 97, 515-526.	1.6	5

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37	Air-stable MgH ₂ -CeO ₂ composite with facilitated de/hydrogenation kinetics synthesized by high energy ball milling. <i>Materials Characterization</i> , 2017, 133, 94-101.	4.4	32
38	Precipitation behavior of β_2 phase in Ti-34Al-13Nb alloy. <i>Journal of Alloys and Compounds</i> , 2017, 725, 155-162.	5.5	8
39	Atomic-scale observations of B2 β' -related phases transition in high-Nb containing TiAl alloy. <i>Materials Characterization</i> , 2017, 130, 135-138.	4.4	14
40	Dehydrogenation steps and factors controlling desorption kinetics of a Mg-Ce hydrogen storage alloy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21121-21130.	7.1	22
41	The Third-Order Elastic Moduli and Debye Temperature of SrFe ₂ As ₂ and BaFe ₂ As ₂ : a First-Principles Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 1749-1756.	1.8	10
42	Precipitation behaviors in a quenched high Nb-containing TiAl alloy during annealing. <i>Intermetallics</i> , 2017, 89, 79-85.	3.9	16
43	Phase transformation mechanisms in a quenched Ti-45Al-8.5Nb-0.2W-0.2B-0.02Y alloy after subsequent annealing at 800°C. <i>Journal of Alloys and Compounds</i> , 2017, 691, 60-66.	5.5	29
44	Effects of trace alloying elements on the phase transformation behaviors of ordered β' phases in high Nb-TiAl alloys. <i>Materials and Design</i> , 2017, 113, 47-53.	7.0	39
45	Precipitation Behavior of β' Phase in Ti-37.5Al-12.5Nb Alloy. <i>Metals</i> , 2017, 7, 192.	2.3	2
46	Ab Initio Study of the Elastic and Mechanical Properties of B19 TiAl. <i>Crystals</i> , 2017, 7, 39.	2.2	35
47	Phase transformations in Ti-34Al-13Nb alloy. <i>Journal of Materials Science</i> , 2016, 51, 10478-10486.	3.7	4
48	Ordered β' phase transformations in Ti-45Al-8.5Nb-0.2B alloy. <i>Intermetallics</i> , 2015, 65, 22-28.	3.9	30
49	β' phase precipitation in annealed high Nb containing TiAl alloys. <i>Progress in Natural Science: Materials International</i> , 2015, 25, 147-152.	4.4	7
50	Deformation behaviour and 6H-LPSO structure formation at nanoindentation in lamellar high Nb containing TiAl alloy. <i>Philosophical Magazine Letters</i> , 2015, 95, 85-91.	1.2	11
51	Precipitates in high-Nb TiAl alloyed with Si. <i>Materials Letters</i> , 2015, 154, 8-11.	2.6	13
52	Ordered β_2 to β' phase transformations in high Nb-containing TiAl alloys. <i>Acta Materialia</i> , 2015, 91, 330-339.	7.9	68
53	B19 phase in Ti-45Al-8.5Nb-0.2W-0.2B-0.02Y alloy. <i>Journal of Alloys and Compounds</i> , 2015, 618, 305-310.	3.3	20
54	Cooling rate effects on the microstructure evolution in the β' zones of cast Ti-45Al-8.5Nb-(W, B, Y) alloy. <i>Materials Characterization</i> , 2014, 93, 62-67.	4.4	38

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55	Phase transformation and decomposition mechanisms of the β^2 (i%) phase in cast high Nb containing TiAl alloy. Journal of Alloys and Compounds, 2014, 616, 483-491.	5.5	61
56	Omega phase in as-cast high-Nb-containing TiAl alloy. Scripta Materialia, 2013, 68, 929-932.	5.2	70
57	The Microstructure and Compression Behavior of Multi-Step Forging Ti-45Al-8Nb Alloy after Annealing at 1100 °C. Materials Science Forum, 0, 747-748, 111-114.	0.3	0