

Lin Song

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6500976/publications.pdf>

Version: 2024-02-01

57
papers

1,110
citations

361413

20
h-index

434195

31
g-index

58
all docs

58
docs citations

58
times ranked

534
citing authors

#	ARTICLE	IF	CITATIONS
1	Omega phase in as-cast high-Nb-containing TiAl alloy. Scripta Materialia, 2013, 68, 929-932.	5.2	70
2	Ordered β_2 to β phase transformations in high Nb-containing TiAl alloys. Acta Materialia, 2015, 91, 330-339.	7.9	68
3	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
4	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
5	Phase transformation and decomposition mechanisms of the β_2 (β) phase in cast high Nb containing TiAl alloy. Journal of Alloys and Compounds, 2014, 616, 483-491.	5.5	61
6	Pressure Effect on Elastic Constants and Related Properties of Ti3Al Intermetallic Compound: A First-Principles Study. Materials, 2018, 11, 2015.	2.9	46
7	Effects of trace alloying elements on the phase transformation behaviors of ordered β phases in high Nb-TiAl alloys. Materials and Design, 2017, 113, 47-53.	7.0	39
8	Cooling rate effects on the microstructure evolution in the β zones of cast Ti-45Al-8.5Nb-(W, B, Y) alloy. Materials Characterization, 2014, 93, 62-67.	4.4	38
9	Ab Initio Study of the Elastic and Mechanical Properties of B19 TiAl. Crystals, 2017, 7, 39.	2.2	35
10	Air-stable MgH ₂ / CeO ₂ composite with facilitated de/hydrogenation kinetics synthesized by high energy ball milling. Materials Characterization, 2017, 133, 94-101.	4.4	32
11	Ordered β phase transformations in Ti-45Al-8.5Nb-0.2B alloy. Intermetallics, 2015, 65, 22-28.	3.9	30
12	Evolution of β_2 (β) region in high-Nb containing TiAl alloy in intermediate temperature range. Intermetallics, 2017, 82, 32-39.	3.9	30
13	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
14	Phase transformation mechanisms in a quenched Ti-45Al-8.5Nb-0.2W-0.2B-0.02Y alloy after subsequent annealing at 800°C. Journal of Alloys and Compounds, 2017, 691, 60-66.	5.5	29
15	Evidence for deformation twinning of the D019- β_2 phase in a high Nb containing TiAl alloy. Intermetallics, 2019, 109, 91-96.	3.9	25
16	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
17	Microstructure, phase stability and element partitioning of β_2 - β Co-9Al-9W-2X alloys in different annealing conditions. Journal of Alloys and Compounds, 2019, 787, 594-605.	5.5	23
18	Precipitation behavior of the β phase in an annealed high Nb-TiAl alloy. Journal of Alloys and Compounds, 2017, 701, 882-891.	5.5	22

#	ARTICLE	IF	CITATIONS
19	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
20	Precipitation behavior of β' phase and texture evolution of a forged Ti-45Al-8.5Nb-(W, B, Y) alloy during creep. <i>Materials Characterization</i> , 2018, 136, 41-51.	4.4	22
21	Corrosion resistance and interfacial morphologies of a high Nb-containing TiAl alloy with and without thermal barrier coatings in molten salts. <i>Corrosion Science</i> , 2019, 156, 139-146.	6.6	22
22	β_1 phase in Ti-45Al-8.5Nb-0.2W-0.2B-0.02Y alloy. <i>Journal of Alloys and Compounds</i> , 2015, 618, 305-310.	5.3	20
23	Microstructure and absorption/desorption kinetics evolutions of Mg-Ni-Ce alloys during hydrogenation and dehydrogenation cycles. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8404-8414.	7.1	19
24	Deformation and phase transformation behaviors of a high Nb-containing TiAl alloy compressed at intermediate temperatures. <i>Journal of Materials Science and Technology</i> , 2022, 102, 89-96.	10.7	18
25	Precipitation of nanocrystalline LaH_3 and Mg_2Ni and its effect on de-/hydrogenation thermodynamics of Mg-rich alloys. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 32221-32233.	7.1	17
26	Precipitation behaviors in a quenched high Nb-containing TiAl alloy during annealing. <i>Intermetallics</i> , 2017, 89, 79-85.	3.9	16
27	Hydrogen absorption/desorption cycling performance of Mg-based alloys with in-situ formed Mg_2Ni and LaH_3 ($x=2, 3$) nanocrystallines. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 1180-1192.	11.9	16
28	Atomic-scale observations of β_2 β' -related phases transition in high-Nb containing TiAl alloy. <i>Materials Characterization</i> , 2017, 130, 135-138.	4.4	14
29	Precipitates in high-Nb TiAl alloyed with Si. <i>Materials Letters</i> , 2015, 154, 8-11.	2.6	13
30	A comparative first-principles study of tetragonal TiAl and $\text{Ti}_4\text{Nb}_3\text{Al}_9$ intermetallic compounds. <i>Intermetallics</i> , 2018, 101, 72-80.	3.9	13
31	Coupling effects of deformation and thermal exposure on the precipitation behaviors of β_2 (β') phases in a high Nb-containing TiAl alloy. <i>Materials and Design</i> , 2018, 148, 135-144.	7.0	12
32	Identification of Laves phases in a Zr or Hf containing β_2 - β_3 Co-base superalloy. <i>Journal of Alloys and Compounds</i> , 2019, 805, 880-886.	5.5	12
33	Microstructural evolution and hydrogen storage properties of a Ni-modified Mg_{15}Al alloy. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10788-10799.	7.1	12
34	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
35	Microstructure and phase transformations of β' -Ti ₄ Al ₃ Nb based alloys after quenching and subsequent aging at intermediate temperatures. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153387.	5.5	11
36	Characterization of primary, secondary and tertiary β_2 phases in high Nb containing TiAl alloy. <i>Materials Characterization</i> , 2017, 130, 135-138.	4.4	11

#	ARTICLE	IF	CITATIONS
37	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
38	Hydride formation during cathodic charging and its effect on mechanical properties of a high Nb containing TiAl alloy. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8161-8169.	7.1	10
39	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
40	Mechanisms of hydrides nucleation and the effect of hydrogen pressure induced driving force on de-/hydrogenation kinetics of Mg-based nanocrystalline alloys. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 1063-1075.	7.1	8
41	β_2 phase precipitation in annealed high Nb containing TiAl alloys. <i>Progress in Natural Science: Materials International</i> , 2015, 25, 147-152.	4.4	7
42	Creep-induced β_2 phase precipitation and cavity formation in a cast 45.5Ti-45Al-9Nb-0.5B alloy. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160106.	5.5	7
43	Quantitative study of surface relief produced by formation of lamellar microstructure in a β_2 -TiAl based alloy. <i>Materials Letters</i> , 2017, 188, 134-137.	2.6	6
44	Experimental Phase Equilibria and Isoleth Section of 8Nb-TiAl Alloys. <i>Metals</i> , 2021, 11, 1229.	2.3	6
45	On the reversibility of the β_2/β_1 phase transformation in a high Nb containing TiAl alloy during high temperature deformation. <i>Journal of Materials Science and Technology</i> , 2021, 93, 96-102.	10.7	6
46	Ordinary dislocation configurations in high Nb-containing TiAl alloy deformed at high temperatures. <i>Philosophical Magazine</i> , 2017, 97, 515-526.	1.6	5
47	Nucleation behavior of β_2 phase in TiAl alloys at different elevated temperatures. <i>Journal of Materials Science</i> , 2018, 53, 5287-5295.	3.7	5
48	Phase transformations in Ti-34Al-13Nb alloy. <i>Journal of Materials Science</i> , 2016, 51, 10478-10486.	3.7	4
49	Ameliorated microstructure and hydrogen absorption/desorption properties of novel Mg-Ni-La alloy doped with MWCNTs and Co nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 18044-18057.	7.1	4
50	Tunable microstructure, de-/hydrogenation kinetics and thermodynamics performance of Mg-Ni-La-Ti-H systems. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6701-6712.	7.1	3
51	In situ Observation of the Initial Stage of β_2 Lamella Formation in Ti ₄₈ Al ₂ Cr ₂ Nb Alloy. <i>Advanced Engineering Materials</i> , 2017, 19, 1600670.	3.5	2
52	Alloying Effects on the Phase Transformation Behaviors of the Orthorhombic and Ordered β_2 Phases in High Nb-TiAl Alloys. <i>Advanced Engineering Materials</i> , 2017, 19, 1700040.	3.5	2
53	Precipitation Behavior of β_2 Phase in Ti-37.5Al-12.5Nb Alloy. <i>Metals</i> , 2017, 7, 192.	2.3	2
54	First-Principles Calculations on Structural Property and Anisotropic Elasticity of β_2 -Ti ₄ Nb ₃ Al ₉ under Pressure. <i>Materials</i> , 2018, 11, 2025.	2.9	2

#	ARTICLE	IF	CITATIONS
55	Microstructure Evolution of a Ti-45Al-8.5Nb-0.2W-0.2B-0.02Y Alloy during Massive Transformation and Subsequent Annealing. <i>Metals</i> , 2018, 8, 89.	2.3	2
56	In- and ex-situ study of the deformation behavior of the β_0 phase in a Ti4Al3Nb alloy during high-temperature compression. <i>Journal of Alloys and Compounds</i> , 2022, , 165626.	5.5	1
57	The Microstructure and Compression Behavior of Multi-Step Forging Ti-45Al-8Nb Alloy after Annealing at 1100 °C. <i>Materials Science Forum</i> , 0, 747-748, 111-114.	0.3	0