Xinzhong Li

List of Publications by Year in descending order

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42	502	566801	752256
papers	citations	15 h-index	20 g-index

42	42	42	235
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design of hydrogen permeable Nbâ€“Niâ€“Ti alloys by correlating the microstructures, solidification paths and hydrogen permeability. International Journal of Hydrogen Energy, 2014, 39, 3505-3516.	3.8	40
2	Development of Nb35Mo5Ti30Ni30 alloy membrane for hydrogen separation applications. Journal of Membrane Science, 2018, 553, 171-179.	4.1	28
3	Hydrogen transport behavior of as-cast, cold rolled and annealed Nb40Ti30Co30 alloy membranes. Journal of Membrane Science, 2016, 514, 294-304.	4.1	24
4	Changes in microstructure, ductility and hydrogen permeability of Nbâ€“(Ti, Hf)Ni alloy membranes by the substitution of Ti by Hf. Journal of Membrane Science, 2015, 484, 47-56.	4.1	23
5	V-Cr-Cu dual-phase alloy membranes for hydrogen separation: An excellent combination of ductility, hydrogen permeability and embrittlement resistance. Journal of Membrane Science, 2017, 524, 354-361.	4.1	21
6	Analysis of W/Mo alloying on hydrogen permeation performance of dual phase Nb-Ti-Ni alloys based on hydrogen chemical potentials. Journal of Membrane Science, 2019, 584, 290-299.	4.1	21
7	Effect of peritectic reaction on dendrite coarsening in directionally solidified Snâ€“36Âat.%Ni alloy. Journal of Materials Science, 2012, 47, 6108-6117.	1.7	20
8	Well-aligned in situ composites in directionally solidified Feâ€“Ni peritectic system. Applied Physics Letters, 2006, 89, 231918.	1.5	19
9	Facetedâ€“nonfaceted growth transition and 3-D morphological evolution of primary Al₆Mn microcrystals in directionally solidified Alâ€“3 at.% Mn alloy. Journal of Materials Research, 2014, 29, 1256-1263.	1.2	18
10	Hydrogen permeation behavior of Nb30Ti35Ni35â^'xCox (xÂ=ÂÂ0â€¦35) alloys containing high fractions of eutectic. International Journal of Hydrogen Energy, 2014, 39, 9366-9374.	3.8	18
11	Anisotropic layered Bi2Te3-In2Te3 composites: control of interface density for tuning of thermoelectric properties. Scientific Reports, 2017, 7, 43611.	1.6	18
12	Design of (Nb, Mo)40Ti30Ni30 alloy membranes for combined enhancement of hydrogen permeability and embrittlement resistance. Scientific Reports, 2017, 7, 209.	1.6	17
13	Degradation of Pd/Nb30Ti35Co35/Pd hydrogen permeable membrane: A numerical description. Journal of Membrane Science, 2020, 601, 117922.	4.1	17
14	Nbâ€“HfCo alloys with pronounced high hydrogen permeability: A new family of metallic hydrogen permeation membranes. International Journal of Hydrogen Energy, 2014, 39, 8385-8389.	3.8	16
15	Microstructure dependent hydrogen permeability in eutectic Nb30Ti35Co35. International Journal of Hydrogen Energy, 2016, 41, 13086-13092.	3.8	16
16	Substantial enhancement of hydrogen permeability and embrittlement resistance of Nb30Ti25Hf10Co35 eutectic alloy membranes by directional solidification. Journal of Membrane Science, 2015, 496, 165-173.	4.1	15
17	Microstructural stability and its effect on hydrogen permeability in equiaxed and directionally solidified eutectic Nb 30 Ti 35 Co 35 alloys. International Journal of Hydrogen Energy, 2015, 40, 9026-9031.	3.8	15
18	Composition-dependent phase substitution in directionally solidified Sn-22at.%Ni peritectic alloy. Journal of Materials Science, 2016, 51, 1512-1521.	1.7	14

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19	Prediction of the solidification path of Al-4.37Cu-27.02Mg ternary eutectic alloy with a unified microsegregation model coupled with Thermo-Calc. International Journal of Materials Research, 2013, 104, 244-254.	0.1	10
20	Primary dendrite distribution in directionally solidified Snâ€“36 at.% Ni peritectic alloy. Journal of Materials Research, 2013, 28, 740-746.	1.2	10
21	Local melting/solidification during peritectic solidification in a steep temperature gradient: analysis of a directionally solidified Alâ€“25at%Ni. Applied Physics A: Materials Science and Processing, 2014, 116, 1821-1831.	1.1	9
22	Improving hydrogen permeability and sustainability of Nb30Ti35Co35 eutectic alloy membrane by substituting Co using Fe. International Journal of Hydrogen Energy, 2020, 45, 30720-30730.	3.8	9
23	Hydrogen transport through the V-Cr-Al alloys: Hydrogen solution, permeation and thermal-stability. Separation and Purification Technology, 2020, 240, 116654.	3.9	9
24	Controllable 3D morphology and growth mechanism of quasicrystalline phase in directionally solidified Alâ€“Mnâ€“Be alloy. Journal of Materials Research, 2014, 29, 2547-2555.	1.2	8
25	On migration of primary/peritectic interface during interrupted directional solidification of Sn-Ni peritectic alloy. Scientific Reports, 2016, 6, 24512.	1.6	8
26	Structure and properties of niobium carbide coated vanadium composite membranes for high temperature hydrogen separation. Journal of Alloys and Compounds, 2022, 900, 163530.	2.8	8
27	Tailoring the hydrogen transport properties of highly permeable Nb51W5Ti23Ni21 alloy membrane by Pd substitution. International Journal of Hydrogen Energy, 2022, 47, 6734-6744.	3.8	7
28	Influence of initial solidâ€“liquid interface morphology on further microstructure evolution during directional solidification. Applied Physics A: Materials Science and Processing, 2013, 110, 443-451.	1.1	6
29	Highly sulfur-tolerant Pd composite membranes with a protective layer of MoS₂/Î³-alumina. Journal of Materials Chemistry A, 2017, 5, 8892-8896.	5.2	6
30	â€œModifiedâ€•Liquidâ€“Liquid Displacement Porometry and Its Applications in Pd-Based Composite Membranes. Membranes, 2018, 8, 29.	1.4	6
31	On oscillatory microstructure during cellular growth of directionally solidified Snâ€“36at.%Ni peritectic alloy. Scientific Reports, 2016, 6, 24315.	1.6	5
32	Enhancement of hydrogen permeation stability at high temperatures for Pd/Nb30Ti35Co35/Pd composite membranes by HfN intermediate layer. Journal of Membrane Science, 2022, 643, 120062.	4.1	5
33	A simple model for lamellar peritectic coupled growth with peritectic reaction. Science in China Series G: Physics, Mechanics and Astronomy, 2007, 50, 442-450.	0.2	4
34	Isothermal Peritectic Coupled Growth in Directionally Solidified Cu-20ÂwtÂpct Sn Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4219-4223.	1.1	4
35	Directional Solidification of Ti6Al4V Ingots with an Electromagnetic Cold Crucible by Adjusting the Meniscus. ISIJ International, 2012, 52, 1296-1300.	0.6	4
36	Detachment of secondary dendrite arm in a directionally solidified Sn-Ni peritectic alloy under deceleration growth condition. Scientific Reports, 2016, 6, 27682.	1.6	4

#	Article	IF	Citations
37	Improvement of mechanical properties in micro-alloying Al-Si-Mg-Zn cast alloy. Materials Letters, 2021, 283, 128810.	1.3	4
38	The optimized composition and strong sustainability of hydrogen permeation of Nb30Ti35Co35 eutectic alloy membrane after 5Âat%Fe substitution. International Journal of Hydrogen Energy, 2021, 46, 13038-13043.	3.8	4
39	Effect of peritectic reaction on the migration of secondary dendrite arms in the presence of tertiary dendrites: analysis of a directionally solidified Snâ€“36Âat.%Ni peritectic alloy. Journal of Materials Science, 2013, 48, 2608-2617.	1.7	3
40	Secondary dendrite arm migration caused by temperature gradient zone melting in the directionally solidified Snâ€“40 at.% Mn peritectic alloy. Journal of Materials Research, 2013, 28, 1196-1202.	1.2	3
41	Effect of growth rate on microstructures and microhardness in directionally solidified Tiâ€“47Alâ€“1.0Wâ€“0.5Si alloy. Journal of Materials Research, 2016, 31, 618-626.	1.2	3
42	Substantial enhancement of hydrogen permeability of Mo2C/V composite membranes by ion beam sputtering. Journal of Membrane Science, 2022, 647, 120312.	4.1	3