# Xinzhong Li

## List of Publications by Year in descending order

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Version: 2024-02-01

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| papers | citations | 15 h-index | 20 g-index |

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

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | Substantial enhancement of hydrogen permeability of Mo2C/V composite membranes by ion beam sputtering. Journal of Membrane Science, 2022, 647, 120312. | 4.1 | 3 |
| 5 | Improvement of mechanical properties in micro-alloying Al-Si-Mg-Zn cast alloy. Materials Letters, 2021, 283, 128810. | 1.3 | 4 |
| 6 | 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 |
| 7 | 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 |
| 8 | Hydrogen transport through the V-Cr-Al alloys: Hydrogen solution, permeation and thermal-stability. Separation and Purification Technology, 2020, 240, 116654. | 3.9 | 9 |
| 9 | Degradation of Pd/Nb30Ti35Co35/Pd hydrogen permeable membrane: A numerical description. Journal of Membrane Science, 2020, 601, 117922. | 4.1 | 17 |
| 10 | 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 |
| 11 | Development of Nb35Mo5Ti30Ni30 alloy membrane for hydrogen separation applications. Journal of Membrane Science, 2018, 553, 171-179. | 4.1 | 28 |
| 12 | â€œModifiedâ€•Liquidâ€“Liquid Displacement Porometry and Its Applications in Pd-Based Composite Membranes. Membranes, 2018, 8, 29. | 1.4 | 6 |
| 13 | Anisotropic layered Bi2Te3-In2Te3 composites: control of interface density for tuning of thermoelectric properties. Scientific Reports, 2017, 7, 43611. | 1.6 | 18 |
| 14 | Highly sulfur-tolerant Pd composite membranes with a protective layer of MoS<sub>2</sub>/Î³-alumina. Journal of Materials Chemistry A, 2017, 5, 8892-8896. | 5.2 | 6 |
| 15 | Design of (Nb, Mo)40Ti30Ni30 alloy membranes for combined enhancement of hydrogen permeability and embrittlement resistance. Scientific Reports, 2017, 7, 209. | 1.6 | 17 |
| 16 | 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 |
| 17 | Hydrogen transport behavior of as-cast, cold rolled and annealed Nb40Ti30Co30 alloy membranes. Journal of Membrane Science, 2016, 514, 294-304. | 4.1 | 24 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Microstructure dependent hydrogen permeability in eutectic Nb30Ti35Co35. International Journal of Hydrogen Energy, 2016, 41, 13086-13092. | 3.8 | 16 |
| 20 | On oscillatory microstructure during cellular growth of directionally solidified Snâ€“36at.%Ni peritectic alloy. Scientific Reports, 2016, 6, 24315. | 1.6 | 5 |
| 21 | On migration of primary/peritectic interface during interrupted directional solidification of Sn-Ni peritectic alloy. Scientific Reports, 2016, 6, 24512. | 1.6 | 8 |
| 22 | 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 |
| 23 | Composition-dependent phase substitution in directionally solidified Sn-22at.%Ni peritectic alloy. Journal of Materials Science, 2016, 51, 1512-1521. | 1.7 | 14 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | Facetedâ€“nonfaceted growth transition and 3-D morphological evolution of primary Al<sub>6</sub>Mn microcrystals in directionally solidified Alâ€“3 at.% Mn alloy. Journal of Materials Research, 2014, 29, 1256-1263. | 1.2 | 18 |
| 29 | Hydrogen permeation behavior of Nb30Ti35Ni35â^'xCox (xÂ=Â0â€¦35) alloys containing high fractions of eutectic. International Journal of Hydrogen Energy, 2014, 39, 9366-9374. | 3.8 | 18 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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| 37 | Primary dendrite distribution in directionally solidified Snâ€“36 at.% Ni peritectic alloy. Journal of Materials Research, 2013, 28, 740-746. | 1.2 | 10 |
| 38 | 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 |
| 39 | Directional Solidification of Ti6Al4V Ingots with an Electromagnetic Cold Crucible by Adjusting the Meniscus. ISIJ International, 2012, 52, 1296-1300. | 0.6 | 4 |
| 40 | 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 |
| 41 | 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 |
| 42 | Well-aligned in situ composites in directionally solidified Feâ€“Ni peritectic system. Applied Physics Letters, 2006, 89, 231918. | 1.5 | 19 |