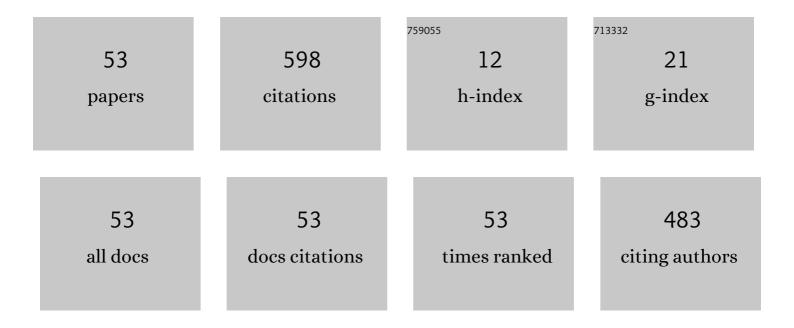
Qiaodan Hu

List of Publications by Year in descending order

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Οιλορλνι Ηιι

#	Article	IF	CITATIONS
1	Unveiling the Growth Mechanism of Faceted Primary Al2Cu with Complex Morphologies During Solidification. Acta Metallurgica Sinica (English Letters), 2022, 35, 124-132.	1.5	4
2	Atomic tuning effect of TiB2 particles on the liquid phase separation behavior of an Al-Bi immiscible alloy. Scripta Materialia, 2022, 209, 114365.	2.6	4
3	Dramatic impact of the TiO ₂ polymorph on the electrical properties of â€~stoichiometric' Na _{0.5} Bi _{0.5} TiO ₃ ceramics prepared by solid-state reaction. Journal of Materials Chemistry A, 2022, 10, 891-901.	5.2	9
4	Preface to the Special Issue: Application of Synchrotron Radiation in Materials Research. Acta Metallurgica Sinica (English Letters), 2022, 35, 1-2.	1.5	1
5	Effect of cooling rate on the 3D morphology of the proeutectic Al3Ni intermetallic compound formed at the Al/Ni interface after solidification. Journal of Materials Science and Technology, 2021, 69, 60-68.	5.6	9
6	Recent Progress in Metallurgical Bonding Mechanisms at the Liquid/Solid Interface of Dissimilar Metals Investigated via in situ X-ray Imaging Technologies. Acta Metallurgica Sinica (English Letters), 2021, 34, 145-168.	1.5	25
7	Anomalous structure transition in undercooled melt regulates polymorphic selection in barium titanate crystallization. Communications Chemistry, 2021, 4, .	2.0	6
8	Bubble-induced formation of new intermetallic compounds in an Al–Mn alloy during heating observed by synchrotron radiography. Materialia, 2021, 15, 100991.	1.3	1
9	Microstructure evolution, solidification characteristic and magnetocaloric properties of MnFeP0·5Si0.5 particles by droplet melting. Intermetallics, 2021, 131, 107102.	1.8	6
10	Inhibiting effect of heterogeneous cations aggregation enhanced by oxygen deficiency on glass formation of BaTi ₂ O ₅ melts. Journal of the American Ceramic Society, 2021, 104, 6207-6226.	1.9	2
11	Introduction of low strain energy GdAlO3 grain boundaries into directionally solidified Al2O3/GdAlO3 eutectics. Acta Materialia, 2021, 221, 117355.	3.8	24
12	On the role of cooling rate and temperature in forming twinned α' martensite in Ti–6Al–4V. Journal of Alloys and Compounds, 2020, 813, 152247.	2.8	30
13	Direct formation of La(Fe,Si)13 phase with enhanced mechanical property of off-stoichiometric La1.7Fe11.6Si1.4 alloys by directional solidification. Journal of Alloys and Compounds, 2020, 817, 152694.	2.8	9
14	Bubble growth, intermetallic compounds dissolution and their interactions during heating of an Al-5wt.%Mn alloy by in-situ synchrotron radiography. Journal of Alloys and Compounds, 2020, 822, 153554.	2.8	3
15	From insulator to oxide-ion conductor by a synergistic effect from defect chemistry and microstructure: acceptor-doped Bi-excess sodium bismuth titanate Na _{0.5} Bi _{0.51} TiO _{3.015} . Journal of Materials Chemistry A, 2020, 8, 25120-25130.	5.2	33
16	In Situ Analysis of Multiphase Compounds at the Liquid Al-Solid Cu Interface: Formation Sequence, Growth Kinetics and Critical Thickness. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 5245-5256.	1.1	4
17	Dynamic behaviors of minor droplets and the role of bubbles in phase-separating Al Bi immiscible alloy. Journal of Molecular Liquids, 2020, 320, 114478.	2.3	7
18	Reduced Annealing Time and Enhanced Magnetocaloric Effect of La(Fe, Al)13 Alloy by La-nonstoichiometry and Si-doping. Acta Metallurgica Sinica (English Letters), 2020, 33, 1535-1542.	1.5	3

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19	Atomic scale structural analysis of liquid immiscibility in binary silicate melt: A case of SiO2‒TiO2 system. Journal of Materials Science and Technology, 2020, 53, 53-60.	5.6	2
20	Intergrowth mechanism and morphology prediction of faceted Al3Ni formed during solidification by a spatial geometric model. Journal of Materials Science and Technology, 2020, 54, 40-47.	5.6	6
21	A New Sight of the Growth Characteristics of Solidified Al3Ni at the Liquid–Solid Interface by Synchrotron Radiography and 3D Tomography. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 2689-2696.	1.1	5
22	Effect of Si on the Growth Behavior of the Fe2Al5 Phase at Al-xSi(liquid)/Fe(solid) Interface During Holding by In-Situ Synchrotron Radiography. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 2711-2718.	1.1	20
23	Kinetic role of Cu content in reaction process, behavior and their relationship among Cu-Zr-C system. Journal of Materials Science and Technology, 2019, 35, 2375-2382.	5.6	4
24	Polymorphic transition and nucleation pathway of barium dititanate (BaTi2O5) during crystallization from undercooled liquid. Scientific Reports, 2019, 9, 7207.	1.6	8
25	Static coarsening behaviour of lamellar microstructure in selective laser melted Ti–6Al–4V. Journal of Materials Science and Technology, 2019, 35, 1578-1586.	5.6	48
26	Ambiguous temperature difference in aerodynamic levitation process: Modelling, solving and application. Journal of Materials Science and Technology, 2019, 35, 1636-1643.	5.6	6
27	In-situ study on hydrogen bubble evolution in the liquid Al/solid Ni interconnection by synchrotron radiation X-ray radiography. Journal of Materials Science and Technology, 2019, 35, 1388-1392.	5.6	14
28	Continuous Morphological Transition and Its Mechanism of Al3Ni Phase at the Liquid–Solid Interface During Solidification. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 556-561.	1.1	10
29	Microstructure and magnetic property of LaFe11.6Si1.4 magnetocaloric alloys by a novel short time heat treatment. Intermetallics, 2019, 105, 1-5.	1.8	15
30	A Full View of the Interfacial Behavior Between the Liquid Al and Solid Ni by Synchrotron Radiation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 300-310.	1.1	14
31	In-Situ Observation on the Diversified Morphology and Growth Behavior of Al3Ni Phase at the Liquid Al/Solid Ni Interface. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 1486-1491.	1.1	8
32	The Nucleation Potency of In Situ-Formed Oxides in Liquid Iron. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 1762-1769.	1.1	5
33	Martensite transformation, mechanical properties and shape memory effects of Ni-Mn-In-Mg shape memory alloys. Progress in Natural Science: Materials International, 2018, 28, 60-65.	1.8	9
34	Microstructural evolution and growth behavior of intermetallic compounds at the liquid Al/solid Fe interface by synchrotron X-ray radiography. Materials Characterization, 2018, 136, 157-164.	1.9	51
35	Simulation of Macrosegregation and Shrinkage Cavity in an Al-4.5 Wt Pct Cu Ingot Using a Four-Phase Model. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 6243-6254.	1.1	13
36	In Situ Observation on Bubble Behavior of Solidifying Al-Ni Alloy Under the Interference of Intermetallic Compounds. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4429-4434.	1.1	13

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37	Heterogeneous Nucleation Behavior in Al Deoxidized Liquid Iron. Materials Transactions, 2018, 59, 1949-1951.	0.4	2
38	Orientation Relationship Between Magnetic Domains and Twins in Ni52Fe17Ga27Co4 Magnetic Shape Memory Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2675-2681.	1.1	4
39	Internal friction behaviors of Ni-Mn-In magnetic shape memory alloy with two-step structural transformation. Progress in Natural Science: Materials International, 2017, 27, 356-361.	1.8	4
40	A Full View of the Segregation Evolution in Al–Bi Immiscible Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2701-2705.	1.1	12
41	In situ observation on the formation of intermetallics compounds at the interface of liquid Al/solid Ni. Scripta Materialia, 2017, 130, 214-218.	2.6	37
42	On the Driving Forces of Magnetically Induced Martensitic Transformation in Directionally Solidified Polycrystalline Ni-Mn-In Meta-Magnetic Shape Memory Alloy with Structural Anisotropy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5480-5491.	1.1	12
43	A Homogeneous Billet Layer Casting Fabrication Method. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4453-4457.	1.1	9
44	Peritectic Solidification Path of the La(Fe,Si)13 Phase in Dual-Phase Directionally Solidified La-Fe-Si Magnetocaloric Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4229-4236.	1.1	11
45	Quantitatively Analyzing Strength Contribution vs Grain Boundary Scale Relation in Pure Titanium Subjected to Severe Plastic Deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1922-1928.	1.1	31
46	Quantitative Analysis of Heterogeneous Microstructure and Diversified Strengthening Mechanisms in Spark Plasma Sintered Molybdenum Disilicide. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1443-1449.	1.1	6
47	<i><scp>I</scp>n <scp>S</scp>itu </i> <scp>T</scp> i <scp>C</scp> Ceramic Particles Locally Reinforced <scp>A</scp> lâ€ <scp>S</scp> i Matrix Composites Prepared by SHSâ€Casting Method from the <scp>A</scp> lâ€ <scp>S</scp> iâ€ <scp>T</scp> iâ€ <scp>C</scp> System. International Journal of Applied Ceramic Technology, 2014, 11, 723-731.	1.1	6
48	Reaction behavior and formation mechanism of ZrC and ZrB2 in the Cu–Zr–B4C system. International Journal of Refractory Metals and Hard Materials, 2014, 43, 102-108.	1.7	12
49	Grain Refinement and Delta Ferrite Reduction of High Cr Steel Ingots by Thermal Control. ISIJ International, 2014, 54, 2302-2308.	0.6	5
50	A Quantified Complex Strengthening Mechanism in Solid-State Recycled Titanium. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 1651-1655.	1.1	4
51	Thermal explosion synthesis of ZrC particles and their mechanism of formation from Al–Zr–C elemental powders. International Journal of Refractory Metals and Hard Materials, 2012, 35, 251-256.	1.7	9
52	In situ Synthesis of Nano-sized ZrC and Its Formation Mechanism by Combustion Synthesis from Zr–C–Cu System. ISIJ International, 2011, 51, 1576-1579.	0.6	1
53	Purification of an industrial aluminum alloy by melt stirring during Ohno Continuous Casting process. Materials Letters, 2011, 65, 2248-2250.	1.3	2