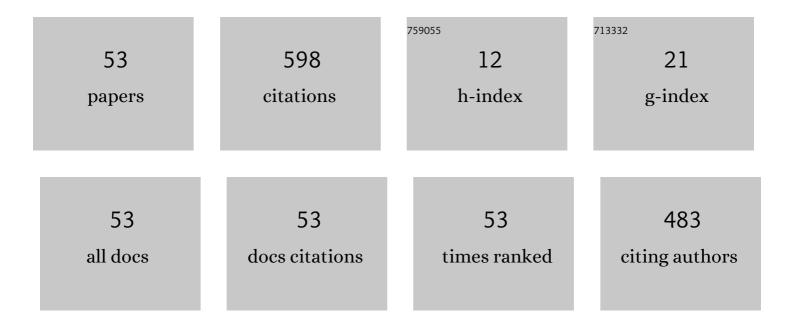
Qiaodan Hu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	Introduction of low strain energy GdAlO3 grain boundaries into directionally solidified Al2O3/GdAlO3 eutectics. Acta Materialia, 2021, 221, 117355.	3.8	24
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	A Homogeneous Billet Layer Casting Fabrication Method. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4453-4457.	1.1	9
22	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
23	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
24	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
25	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
26	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
27	Polymorphic transition and nucleation pathway of barium dititanate (BaTi2O5) during crystallization from undercooled liquid. Scientific Reports, 2019, 9, 7207.	1.6	8
28	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
29	<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
30	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
31	Ambiguous temperature difference in aerodynamic levitation process: Modelling, solving and application. Journal of Materials Science and Technology, 2019, 35, 1636-1643.	5.6	6
32	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
33	Anomalous structure transition in undercooled melt regulates polymorphic selection in barium titanate crystallization. Communications Chemistry, 2021, 4, .	2.0	6
34	Microstructure evolution, solidification characteristic and magnetocaloric properties of MnFePOA·5Si0.5 particles by droplet melting. Intermetallics, 2021, 131, 107102.	1.8	6
35	Grain Refinement and Delta Ferrite Reduction of High Cr Steel Ingots by Thermal Control. ISIJ International, 2014, 54, 2302-2308.	0.6	5
36	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

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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	Purification of an industrial aluminum alloy by melt stirring during Ohno Continuous Casting process. Materials Letters, 2011, 65, 2248-2250.	1.3	2
48	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
49	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
50	Heterogeneous Nucleation Behavior in Al Deoxidized Liquid Iron. Materials Transactions, 2018, 59, 1949-1951.	0.4	2
51	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
52	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
53	Preface to the Special Issue: Application of Synchrotron Radiation in Materials Research. Acta Metallurgica Sinica (English Letters), 2022, 35, 1-2.	1.5	1