

Kang Wang

List of Publications by Year in descending order

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29
papers

541
citations

567281

15
h-index

642732

23
g-index

30
all docs

30
docs citations

30
times ranked

442
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of the maximal entropy production principle to rapid solidification: A sharp interface model. <i>Acta Materialia</i> , 2012, 60, 1444-1454.	7.9	55
2	In situ observation of remelting induced anomalous eutectic structure formation in an undercooled Ni-18.7 at.% Sn eutectic alloy. <i>Scripta Materialia</i> , 2020, 177, 123-127.	5.2	50
3	Martensitic transition in Fe via Bain path at finite temperatures: A comprehensive first-principles study. <i>Acta Materialia</i> , 2018, 147, 261-276.	7.9	44
4	Grain size stabilization of mechanically alloyed nanocrystalline Fe-Zr alloys by forming highly dispersed coherent Fe-Zr-O nanoclusters. <i>Acta Materialia</i> , 2018, 158, 340-353.	7.9	41
5	Modeling rapid solidification of multi-component concentrated alloys. <i>Acta Materialia</i> , 2013, 61, 1359-1372.	7.9	38
6	Application of the maximal entropy production principle to rapid solidification: A multi-phase-field model. <i>Acta Materialia</i> , 2013, 61, 2617-2627.	7.9	31
7	Modeling dendrite growth in undercooled concentrated multi-component alloys. <i>Acta Materialia</i> , 2013, 61, 4254-4265.	7.9	31
8	Fabrication and photocatalytic properties of flexible g-C ₃ N ₄ /SiO ₂ composite membrane by electrospinning method. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6771-6778.	2.2	30
9	Potential-pH diagrams considering complex oxide solution phases for understanding aqueous corrosion of multi-principal element alloys. <i>Npj Materials Degradation</i> , 2020, 4, .	5.8	26
10	Fabrication of flexible MIL-100(Fe) supported SiO ₂ nanofibrous membrane for visible light photocatalysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1009-1016.	2.2	23
11	An intrinsic correlation between driving force and energy barrier upon grain boundary migration. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1359-1363.	10.7	19
12	Grain boundary-constrained reverse austenite transformation in nanostructured Fe alloy: Model and application. <i>Acta Materialia</i> , 2018, 154, 56-70.	7.9	18
13	Experimental observation of dual magnetic states in topological insulators. <i>Science Advances</i> , 2019, 5, eaav2088.	10.3	18
14	Multi-scale modeling of the complex microstructural evolution in structural phase transformations. <i>Acta Materialia</i> , 2019, 162, 78-89.	7.9	16
15	Application of non-equilibrium dendrite growth model considering thermo-kinetic correlation in twin-roll casting. <i>Journal of Materials Science and Technology</i> , 2020, 44, 209-222.	10.7	16
16	Morphological stability analysis for planar interface during rapidly directional solidification of concentrated multi-component alloys. <i>Acta Materialia</i> , 2014, 67, 220-231.	7.9	13
17	A thermo-kinetic model for martensitic transformation kinetics in low-alloy steels. <i>Journal of Alloys and Compounds</i> , 2015, 647, 763-767.	5.5	13
18	Phase stability, elastic, and thermodynamic properties of the L1 ₂ (Co,Ni) ₃ (Al,Mo,Nb) phase from first-principles calculations. <i>Journal of Materials Research</i> , 2017, 32, 2100-2108.	2.6	11

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19	Oscillatory morphological stability for rapid directional solidification: Effect of non-linear liquidus and solidus. <i>Acta Materialia</i> , 2011, 59, 5859-5867.	7.9	10
20	Phase selection and microstructural formation of rapidly directionally solidified peritectic Fe-Ni alloys by laser surface remelting. <i>Journal of Alloys and Compounds</i> , 2014, 585, 260-266.	5.5	8
21	Atomic structures of ordered monolayer GP zones in Mg-Zn-X (X= Ca, Nd) systems. <i>Scripta Materialia</i> , 2022, 216, 114744.	5.2	8
22	Effect of back diffusion on overall solidification kinetics of undercooled single-phase solid-solution alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 642-646.	4.2	6
23	Modeling remelting induced destabilization of lamellar eutectic structure in an undercooled Ni-18.7 at.% Sn eutectic alloy. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154018.	5.5	5
24	First-principles investigation of the phase stability and early stages of precipitation in Mg-Sn alloys. <i>Physical Review Materials</i> , 2020, 4, .	2.4	4
25	Applications of irreversible thermodynamics to rapid solidification of multicomponent alloys. <i>Materials Science and Technology</i> , 2015, 31, 1642-1648.	1.6	3
26	The development of non-equilibrium solidification theories. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2015, 45, 358-376.	0.5	3
27	Thermodynamic Probability Analysis of the Effects of Rb on the Corrosion Susceptibility of Cr-Containing Steels for Nuclear Materials Canisters. <i>Corrosion</i> , 2021, 77, 1344-1353.	1.1	1
28	Decoupled growth mechanism of Fe ₄₀ Ni ₄₀ P ₁₄ B ₆ eutectic alloy. <i>Journal of Materials Research</i> , 2013, 28, 2861-2873.	2.6	0
29	Interface kinetics modeling of binary alloy solidification by considering correlation between thermodynamics and kinetics. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 306-316.	4.2	0