

Kang Wang

List of Publications by Year in descending order

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papers

541
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567281

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all docs

30
docs citations

30
times ranked

442
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic structures of ordered monolayer GP zones in Mg-Zn-X (X= Ca, Nd) systems. Scripta Materialia, 2022, 216, 114744.	5.2	8
2	Interface kinetics modeling of binary alloy solidification by considering correlation between thermodynamics and kinetics. Transactions of Nonferrous Metals Society of China, 2021, 31, 306-316.	4.2	0
3	Thermodynamic Probability Analysis of the Effects of Rb on the Corrosion Susceptibility of Cr-Containing Steels for Nuclear Materials Canisters. Corrosion, 2021, 77, 1344-1353.	1.1	1
4	In situ observation of remelting induced anomalous eutectic structure formation in an undercooled Ni-18.7 at.% Sn eutectic alloy. Scripta Materialia, 2020, 177, 123-127.	5.2	50
5	Potential-pH diagrams considering complex oxide solution phases for understanding aqueous corrosion of multi-principal element alloys. Npj Materials Degradation, 2020, 4, .	5.8	26
6	Application of non-equilibrium dendrite growth model considering thermo-kinetic correlation in twin-roll casting. Journal of Materials Science and Technology, 2020, 44, 209-222.	10.7	16
7	Modeling remelting induced destabilization of lamellar eutectic structure in an undercooled Ni-18.7 at.% Sn eutectic alloy. Journal of Alloys and Compounds, 2020, 826, 154018.	5.5	5
8	First-principles investigation of the phase stability and early stages of precipitation in Mg-Sn alloys. Physical Review Materials, 2020, 4, .	2.4	4
9	Experimental observation of dual magnetic states in topological insulators. Science Advances, 2019, 5, eaav2088.	10.3	18
10	Fabrication of flexible MIL-100(Fe) supported SiO ₂ nanofibrous membrane for visible light photocatalysis. Journal of Materials Science: Materials in Electronics, 2019, 30, 1009-1016.	2.2	23
11	Multi-scale modeling of the complex microstructural evolution in structural phase transformations. Acta Materialia, 2019, 162, 78-89.	7.9	16
12	Martensitic transition in Fe via Bain path at finite temperatures: A comprehensive first-principles study. Acta Materialia, 2018, 147, 261-276.	7.9	44
13	Fabrication and photocatalytic properties of flexible g-C ₃ N ₄ /SiO ₂ composite membrane by electrospinning method. Journal of Materials Science: Materials in Electronics, 2018, 29, 6771-6778.	2.2	30
14	An intrinsic correlation between driving force and energy barrier upon grain boundary migration. Journal of Materials Science and Technology, 2018, 34, 1359-1363.	10.7	19
15	Grain size stabilization of mechanically alloyed nanocrystalline Fe-Zr alloys by forming highly dispersed coherent Fe-Zr-O nanoclusters. Acta Materialia, 2018, 158, 340-353.	7.9	41
16	Grain boundary-constrained reverse austenite transformation in nanostructured Fe alloy: Model and application. Acta Materialia, 2018, 154, 56-70.	7.9	18
17	Phase stability, elastic, and thermodynamic properties of the L1 ₂ (Co,Ni) ₃ (Al,Mo,Nb) phase from first-principles calculations. Journal of Materials Research, 2017, 32, 2100-2108.	2.6	11
18	Applications of irreversible thermodynamics to rapid solidification of multicomponent alloys. Materials Science and Technology, 2015, 31, 1642-1648.	1.6	3

#	ARTICLE	IF	CITATIONS
19	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
20	The development of non-equilibrium solidification theories. <i>Zhongguo Kexue Jishu Kexue/Sinica Technologica</i> , 2015, 45, 358-376.	0.5	3
21	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
22	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
23	Modeling rapid solidification of multi-component concentrated alloys. <i>Acta Materialia</i> , 2013, 61, 1359-1372.	7.9	38
24	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
25	Modeling dendrite growth in undercooled concentrated multi-component alloys. <i>Acta Materialia</i> , 2013, 61, 4254-4265.	7.9	31
26	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
27	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
28	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
29	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