

Janin Eiken

List of Publications by Year in descending order

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39
papers

1,777
citations

393982

19
h-index

329751

37
g-index

39
all docs

39
docs citations

39
times ranked

833
citing authors

#	ARTICLE	IF	CITATIONS
1	Cloud-Based ICME Software Training. <i>Education Sciences</i> , 2021, 11, 5.	1.4	3
2	Micro-macro Coupled Solidification Simulations of a Sr-Modified Al-Si-Mg Alloy in Permanent Mould Casting. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 202-211.	0.3	1
3	Columnar dendritic solidification of TiAl under diffusive and hypergravity conditions investigated by phase-field simulations. <i>Computational Materials Science</i> , 2020, 172, 109358.	1.4	17
4	3D phase-field computations of microsegregation in nodular cast iron compared to experimental data and Calphad-based Scheil-prediction. <i>Materialia</i> , 2020, 9, 100538.	1.3	11
5	Multiscale solidification simulation of Sr-modified Al-Si-Mg alloy in die casting. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 861, 012034.	0.3	5
6	Calphad coupled phase-field model with mechano-chemical contributions and its application to rafting of γ in CMSX-4. <i>Computational Materials Science</i> , 2020, 184, 109909.	1.4	21
7	Calphad-based phase-field study of the interplay between spheroidal graphite growth and chemical segregation in ductile cast iron. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 861, 012055.	0.3	2
8	Discussion of the Accuracy of the Multi-Phase-Field Approach to Simulate Grain Growth with Anisotropic Grain Boundary Properties. <i>ISIJ International</i> , 2020, 60, 1832-1834.	0.6	6
9	Phase boundary anisotropy and its effects on the maze-to-lamellar transition in a directionally solidified Al Al ₂ Cu eutectic. <i>Acta Materialia</i> , 2019, 170, 268-277.	3.8	17
10	A Multi-phase-field Approach for Solidification with Non-negligible Volumetric Expansion Application to Graphite Growth in Nodular Cast Iron. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 2725-2729.	0.7	4
11	Towards a metadata scheme for the description of materials – the description of microstructures. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 410-430.	2.8	19
12	Phase field modelling of microstructural evolution during the quenching and partitioning treatment in low-alloy steels. <i>Computational Materials Science</i> , 2016, 112, 245-256.	1.4	38
13	Eutectic morphology evolution and Sr-modification in Al-Si based alloys studied by 3D phase-field simulation coupled to Calphad data. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 84, 012084.	0.3	8
14	Multi-ternary extrapolation scheme for efficient coupling of thermodynamic data to a multi-phase-field model. <i>Computational Materials Science</i> , 2015, 108, 283-292.	1.4	65
15	Impact of P and Sr on solidification sequence and morphology of hypoeutectic Al-Si alloys: Combined thermodynamic computation and phase-field simulation. <i>Acta Materialia</i> , 2015, 98, 152-163.	3.8	77
16	Methods of segregation analysis applied to simulated multicomponent multiphase microstructures. <i>International Journal of Materials Research</i> , 2014, 105, 130-138.	0.1	5
17	Phase field models for heterogeneous nucleation: Application to inoculation in alpha-solidifying Ti-Al-B alloys. <i>European Physical Journal: Special Topics</i> , 2014, 223, 545-558.	1.2	7
18	Resampling technique applied to statistics of microsegregation characterization. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 33, 012062.	0.3	1

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19	Numerical solution of the phase-field equation with minimized discretization error. IOP Conference Series: Materials Science and Engineering, 2012, 33, 012105.	0.3	27
20	Quantitative comparison of the phase-transformation kinetics in a sharp-interface and a phase-field model. Computational Materials Science, 2011, 50, 1846-1853.	1.4	22
21	The Finite Phase-Field Method - A Numerical Diffuse Interface Approach for Microstructure Simulation with Minimized Discretization Error. Materials Research Society Symposia Proceedings, 2011, 1369, 1.	0.1	4
22	Phase-field based simulation of microstructure evolution in technical alloy grades. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2010, 2, 126-139.	0.7	25
23	Phase-Field Simulations of Dendritic Orientation Selection in Mg-Alloys with Hexagonal Anisotropy. Materials Science Forum, 2010, 649, 199-204.	0.3	7
24	Phase-field simulation of microstructure formation in technical magnesium alloys. International Journal of Materials Research, 2010, 101, 503-509.	0.1	27
25	Interplay between β (Ti) nucleation and growth during peritectic solidification investigated by phase-field simulations. Journal of Physics Condensed Matter, 2009, 21, 464104.	0.7	24
26	Upgrading CALPHAD to microstructure simulation: the phase-field method. International Journal of Materials Research, 2009, 100, 128-134.	0.1	43
27	Dendritic growth texture evolution in Mg-based alloys investigated by phase-field simulation. International Journal of Cast Metals Research, 2009, 22, 86-89.	0.5	35
28	Numerical Determination of Heat Distribution and Castability Simulations of as Cast Mg-Al Alloys. Advanced Engineering Materials, 2009, 11, 162-168.	1.6	8
29	Simulation of microstructure formation in technical aluminum alloys using the multiphase-field method. Transactions of the Indian Institute of Metals, 2009, 62, 299-304.	0.7	16
30	Phase-field simulation of microstructure formation in technical castings – A self-consistent homoenthalpic approach to the micro–macro problem. Journal of Computational Physics, 2009, 228, 6784-6795.	1.9	61
31	Phase-Field Simulation of Solidification and Solid-State Transformations in Multicomponent Steels. Steel Research International, 2008, 79, 608-616.	1.0	40
32	CALPHAD and Phase-Field Modeling: A Successful Liaison. Journal of Phase Equilibria and Diffusion, 2007, 28, 101-106.	0.5	87
33	Multiphase-field approach for multicomponent alloys with extrapolation scheme for numerical application. Physical Review E, 2006, 73, 066122.	0.8	411
34	Phase field simulation of equiaxed solidification in technical alloys. Acta Materialia, 2006, 54, 2697-2704.	3.8	206
35	Controlling Microstructure in Magnesium Alloys: A Combined Thermodynamic, Experimental and Simulation Approach. Advanced Engineering Materials, 2006, 8, 241-247.	1.6	43
36	Is There a Difference Between Dendrites of a Binary or a Ternary Alloy? Some Answers by Phase-Field Simulations. , 2002, , .		0

#	ARTICLE	IF	CITATIONS
37	Simulations of the initial transient during directional solidification of multicomponent alloys using the phase field method. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2000, 8, 871-879.	0.8	13
38	The multiphase-field model with an integrated concept for modelling solute diffusion. <i>Physica D: Nonlinear Phenomena</i> , 1998, 115, 73-86.	1.3	367
39	Multi-scale simulation of hybrid light metal structures produced by high pressure die casting. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 861, 012035.	0.3	4