Jonathan E Guyer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

1,298
citations

16
papers
g-index

32
g-index

32
ext. papers

2,469
ext. citations

3,6
avg, IF
L-index

#	Paper	IF	Citations
31	Co-Based superalloy morphology evolution: A phase field study based on experimental thermodynamic and kinetic data. <i>Acta Materialia</i> , 2022 , 233, 117978	8.4	O
30	PFHub: The Phase-Field Community Hub. Journal of Open Research Software, 2019, 7,	2.3	5
29	Simulation and analysis of ENi cellular growth during laser powder deposition of Ni-based superalloys. <i>Computational Materials Science</i> , 2018 , 144, 256-264	3.2	28
28	Phase field benchmark problems for dendritic growth and linear elasticity. <i>Computational Materials Science</i> , 2018 , 149, 336-347	3.2	18
27	Single-Track Melt-Pool Measurements and Microstructures in Inconel 625. <i>Jom</i> , 2018 , 70, 1011-1016	2.1	40
26	Formation of Nb-rich droplets in laser deposited Ni-matrix microstructures. <i>Scripta Materialia</i> , 2018 , 146, 36-40	5.6	14
25	Simulation of temperature, stress and microstructure fields during laser deposition of TiBAlBV. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018 , 26, 075005	2	9
24	Application of Finite Element, Phase-field, and CALPHAD-based Methods to Additive Manufacturing of Ni-based Superalloys. <i>Acta Materialia</i> , 2017 , 139, 244-253	8.4	196
23	On the primary spacing and microsegregation of cellular dendrites in laser deposited NiNb alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017 , 25, 065002	2	77
22	Benchmark problems for numerical implementations of phase field models. <i>Computational Materials Science</i> , 2017 , 126, 139-151	3.2	41
21	Windowless CdSe/CdTe solar cells with differentiated back contacts: J-V, EQE, and photocurrent mapping. ACS Applied Materials & Interfaces, 2014, 6, 15972-9	9.5	9
20	Multicomponent phase-field model for extremely large partition coefficients. <i>Physical Review E</i> , 2014 , 89, 012409	2.4	11
19	Backcontact CdSe/CdTe windowless solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 246-2	536.4	25
18	Three dimensionally structured interdigitated back contact thin film heterojunction solar cells. <i>Journal of Applied Physics</i> , 2011 , 109, 073514	2.5	10
17	Predicting microstructure development during casting of drug-eluting coatings. <i>Acta Biomaterialia</i> , 2011 , 7, 604-13	10.8	10
16	(Invited) Three-Dimensionally Structured Thin Film Heterojunction Photovoltaics on Interdigitated Back-Contacts. <i>ECS Transactions</i> , 2010 , 28, 521-532	1	4
15	The effect of substrate material on silver nanoparticle antimicrobial efficacy. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 8456-62	1.3	6

LIST OF PUBLICATIONS

14	FiPy: Partial Differential Equations with Python. Computing in Science and Engineering, 2009, 11, 6-15	1.5	220
13	Diffusion under temperature gradient: A phase-field model study. <i>Journal of Applied Physics</i> , 2009 , 106, 034912	2.5	34
12	Thermal instability and the growth of the InGaAsAlGaAs pseudomorphic high electron mobility transistor system. <i>Applied Physics Letters</i> , 2007 , 90, 113504	3.4	
11	Computation of the Kirkendall velocity and displacement fields in a one-dimensional binary diffusion couple with a moving interface. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007 , 463, 3347-3373	2.4	21
10	Modeling electrochemistry in metallurgical processes. <i>Jom</i> , 2007 , 59, 35-43	2.1	10
9	Kinetics governing phase separation of nanostructured SnxGe1⊠ alloys. <i>Physical Review B</i> , 2006 , 73,	3.3	9
8	Phase field modeling of electrochemistry. I. Equilibrium. <i>Physical Review E</i> , 2004 , 69, 021603	2.4	117
7	Phase field modeling of electrochemistry. II. Kinetics. <i>Physical Review E</i> , 2004 , 69, 021604	2.4	86
6	Morphological evolution of In0.26Ga0.74As grown under compression on GaAs(001) and under tension on InP(001). <i>Journal of Crystal Growth</i> , 2000 , 217, 1-12	1.6	28
5	Diffuse reflectance spectroscopy for in situ process monitoring and control during molecular beam epitaxy growth of InGaAs/AlGaAs pseudomorphic high electron mobility transistors. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics		3
4	Real-time measurements of the pseudodielectric function of low-temperature-grown GaAs. <i>Applied Physics Letters</i> , 2000 , 77, 540-542	3.4	1
3	Morphological stability and compositional uniformity of alloy thin films. <i>Journal of Crystal Growth</i> , 1998 , 187, 150-165	1.6	53
2	Morphological stability of alloy thin films. <i>Physical Review B</i> , 1996 , 54, 11710-11724	3.3	74
1	Morphological Stability of Alloy Thin Films. <i>Physical Review Letters</i> , 1995 , 74, 4031-4034	7.4	139