

Vladimir A Esin

List of Publications by Year in descending order

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24
papers

664
citations

759233

12
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713466

21
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25
all docs

25
docs citations

25
times ranked

600
citing authors

#	ARTICLE	IF	CITATIONS
1	Grain boundary width, energy and self-diffusion in nickel: Effect of material purity. <i>Acta Materialia</i> , 2013, 61, 5188-5197.	7.9	161
2	Concentration-dependent atomic mobilities in FCC CoCrFeMnNi high-entropy alloys. <i>Acta Materialia</i> , 2019, 166, 357-370.	7.9	74
3	Model for the porosity growth in single-crystal nickel-base superalloys during homogenization. <i>Scripta Materialia</i> , 2007, 57, 801-804.	5.2	66
4	Short- and long-term oxidation behaviour of an advanced Ti ₂ AlNb alloy. <i>Corrosion Science</i> , 2019, 148, 379-387.	6.6	61
5	In situ synchrotron X-ray diffraction and dilatometric study of austenite formation in a multi-component steel: Influence of initial microstructure and heating rate. <i>Acta Materialia</i> , 2014, 80, 118-131.	7.9	51
6	Grain boundary diffusion and grain boundary structures of a Ni-Cr-Fe- alloy: Evidences for grain boundary phase transitions. <i>Acta Materialia</i> , 2020, 195, 501-518.	7.9	43
7	Experimental evidence for anomalous grain boundary diffusion of Fe in Cu and Cu-Fe alloys. <i>Acta Materialia</i> , 2017, 133, 240-246.	7.9	29
8	Increase in ductility of Pt-modified nickel aluminide coating with high temperature ageing. <i>Acta Materialia</i> , 2016, 105, 505-518.	7.9	27
9	Combined synchrotron X-ray diffraction, dilatometry and electrical resistivity in situ study of phase transformations in a Ti ₂ AlNb alloy. <i>Materials Characterization</i> , 2020, 169, 110654.	4.4	20
10	Effect of atomic interaction on grain boundary diffusion in the B regime. <i>Acta Materialia</i> , 2012, 60, 5109-5116.	7.9	16
11	Composition dependence of tracer diffusion coefficients in Fe-Ga alloys: A case study by a tracer-diffusion couple method. <i>Acta Materialia</i> , 2021, 203, 116446.	7.9	16
12	Techniques of Tracer Diffusion Measurements in Metals, Alloys and Compounds. , 0, 29, 31-73.		16
13	Solvent grain boundary diffusion in binary solid solutions: a new approach to evaluate solute grain boundary segregation. <i>Philosophical Magazine</i> , 2014, 94, 4066-4079.	1.6	15
14	Modelling precipitation hardening in an A356+0.5wt%Cu cast aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 819, 141450.	5.6	13
15	Carbon content evolution in austenite during austenitization studied by in situ synchrotron X-ray diffraction of a hypoeutectoid steel. <i>Materialia</i> , 2020, 10, 100664.	2.7	10
16	Concentration Profiles for Grain Boundary Diffusion in B-Regime with Regard to the Formation of Atomic Complexes in Grain Boundary. <i>Defect and Diffusion Forum</i> , 0, 309-310, 29-38.	0.4	8
17	Atomic transport in B ₂ -ordered Al(Fe,Ni) alloys: Tracer-interdiffusion couple approach. <i>Intermetallics</i> , 2020, 126, 106920.	3.9	8
18	Grain boundary diffusion of ⁵⁹ Fe in high-purity copper. <i>Acta Materialia</i> , 2019, 165, 431-443.	7.9	6

#	ARTICLE	IF	CITATIONS
19	Intrinsic heterogeneity of grain boundary states in ultrafine-grained Ni: A cross-scale study by SIMS and radiotracer analyses. <i>Materialia</i> , 2022, 22, 101397.	2.7	6
20	Microstructure evolution of innovative thermal bridge composite (i-TBC) for power electronics during elaboration. <i>Materials and Design</i> , 2018, 137, 68-78.	7.0	5
21	A Combined Experimental and First-Principles Based Assessment of Finite-Temperature Thermodynamic Properties of Intermetallic Al ₃ Sc. <i>Materials</i> , 2021, 14, 1837.	2.9	5
22	Experimental and thermodynamic analysis of differences in phase transformation of Pt-modified nickel aluminide coating during isothermal and cyclic oxidation. <i>Surface and Coatings Technology</i> , 2016, 307, 915-925.	4.8	4
23	Models for the Porosity Growth and Dissolution in Single-Crystal Nickel-Base Superalloys. <i>Defect and Diffusion Forum</i> , 2010, 297-301, 187-192.	0.4	3
24	Thermokinetic Modelling of High-Temperature Evolution of Primary Nb(C,N) in Austenite Applied to Recrystallization of 316Nb Austenitic Stainless Steel. <i>Metals</i> , 2021, 11, 715.	2.3	1