

Göran Grimvall

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10650241/publications.pdf>

Version: 2024-02-01

51
papers

2,015
citations

304743

22
h-index

276875

41
g-index

51
all docs

51
docs citations

51
times ranked

1639
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice instabilities in metallic elements. <i>Reviews of Modern Physics</i> , 2012, 84, 945-986.	45.6	448
2	Extrapolative procedures in modelling and simulations: the role of instabilities. <i>Scientific Modeling and Simulation SMNS</i> , 2008, 15, 5-20.	0.8	3
3	Characteristic quantities and dimensional analysis. <i>Scientific Modeling and Simulation SMNS</i> , 2008, 15, 21-39.	0.8	5
4	Accuracy of models. <i>Scientific Modeling and Simulation SMNS</i> , 2008, 15, 41-57.	0.8	1
5	Accuracy of models. <i>Lecture Notes in Computational Science and Engineering</i> , 2008, , 41-57.	0.3	0
6	Extrapolative procedures in modelling and simulations: the role of instabilities. <i>Lecture Notes in Computational Science and Engineering</i> , 2008, , 5-20.	0.3	0
7	Interface between quantum-mechanical-based approaches, experiments, and CALPHAD methodology. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2007, 31, 4-27.	1.6	108
8	Homogeneous melting of superheated crystals: Molecular dynamics simulations. <i>Physical Review B</i> , 2005, 72, .	3.2	33
9	How superheated crystals melt. <i>Nature Materials</i> , 2005, 4, 388-390.	27.5	103
10	Variation of Elastic Shear Constants in Transition Metal Alloys. , 2005, , 295-305.		1
11	Heat capacity of liquid Al: Molecular dynamics simulations. <i>Physical Review B</i> , 2005, 72, .	3.2	22
12	Vibrational entropy of dislocations in Al. <i>Philosophical Magazine</i> , 2004, 84, 521-532.	1.6	10
13	Anharmonic effects in the heat capacity of Al. <i>Physical Review B</i> , 2004, 69, .	3.2	33
14	Vacancy concentration in Al from combined first-principles and model potential calculations. <i>Physical Review B</i> , 2003, 67, .	3.2	73
15	Electrical resistivity of steels and face-centered-cubic iron. <i>Journal of Applied Physics</i> , 2002, 92, 4402-4407.	2.5	56
16	The Orthorhombic Phase of CaSiO ₃ Perovskite. <i>Materials Research Society Symposia Proceedings</i> , 2002, 718, 1.	0.1	0
17	Anharmonic contribution to the vacancy formation in Cu. <i>Physical Review B</i> , 2001, 63, .	3.2	26
18	Vacancies in Metals: From First-Principles Calculations to Experimental Data. <i>Physical Review Letters</i> , 2000, 85, 3862-3865.	7.8	226

#	ARTICLE	IF	CITATIONS
19	Lattice dynamics and thermodynamic properties of the β -Sn phase in Si. Physical Review B, 2000, 62, 14784-14789.	3.2	18
20	Lattice Vibrations, Heat Capacity, and Related Properties. , 2000, , .		2
21	Dynamical and thermodynamical instabilities in the disordered $\text{Re}_x\text{W}_{1-x}$ system. Physical Review B, 1999, 60, 9999-10007.	3.2	33
22	Reconciling ab initio and semiempirical approaches to lattice stabilities. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1998, 102, 1083-1087.	0.9	37
23	Prediction of Lattice Vibrations in Metastable and Unstable Transition Metal Systems. NATO ASI Series Series B: Physics, 1996, , 425-430.	0.2	0
24	Recreational physics problems for a broad audience. Physics Teacher, 1995, 33, 52-53.	0.3	1
25	Bonding and Debye temperatures in alkali-earth-metal halides. Journal of Physics and Chemistry of Solids, 1994, 55, 707-710.	4.0	11
26	Heat capacity of actinide dioxides. Journal of Nuclear Materials, 1994, 210, 115-122.	2.7	23
27	The Gibbs Energy Of Transition Metal Compounds. NATO ASI Series Series B: Physics, 1994, , 567-570.	0.2	0
28	PHASE DIAGRAMS AND BAND STRUCTURE OF TRANSITION METAL COMPOUNDS. International Journal of Modern Physics B, 1993, 07, 280-285.	2.0	0
29	Cohesive properties and vibrational entropy of 3d-transition metal carbides. Journal of Physics and Chemistry of Solids, 1992, 53, 105-125.	4.0	97
30	Analysis of thermodynamic properties of molybdenum and tungsten at high temperatures. Physical Review B, 1991, 44, 4332-4340.	3.2	50
31	Bonding properties and vibrational entropy of transition metal $\text{MeB}_2(\text{AlB}_2)$ diborides. Journal of the Less Common Metals, 1991, 169, 257-281.	0.8	53
32	Conduction in a two-phase plane with diamond-shaped tiling. Journal of Mathematical Physics, 1991, 32, 1958-1960.	1.1	7
33	Thermal conductivity of cast iron: Models and analysis of experiments. Journal of Applied Physics, 1991, 70, 1198-1206.	2.5	61
34	Conduction in inhomogeneous materials: Hot and high-field spots. Physical Review B, 1989, 39, 9231-9235.	3.2	24
35	Spin disorder in paramagnetic fcc iron. Physical Review B, 1989, 39, 12300-12301.	3.2	46
36	Ab initio and empirical approaches to the thermodynamics of transition metals, with an application to tungsten. Physica B: Condensed Matter, 1989, 159, 39-42.	2.7	0

#	ARTICLE	IF	CITATIONS
37	Cohesive properties and vibrational entropy of 3dtransition-metal compounds:MX(NaCl) compounds (X=C, N, O, S), complex carbides, and nitrides. <i>Physical Review B</i> , 1989, 40, 10582-10593.	3.2	100
38	Thermodynamic properties of technetium. <i>Journal of the Less Common Metals</i> , 1989, 147, 195-211.	0.8	30
39	Questionable physics tricks for children. <i>Physics Teacher</i> , 1987, 25, 378-379.	0.3	1
40	Thermodynamic properties of tungsten. <i>Physical Review B</i> , 1987, 36, 7816-7826.	3.2	33
41	Conductivity of inhomogeneous materials represented by discrete resistor networks. <i>Journal of Applied Physics</i> , 1986, 59, 186-190.	2.5	11
42	Physics should be verifiable. <i>Physics Teacher</i> , 1984, 22, 554-554.	0.3	0
43	Electrical transport and deviations from Matthiessen's rule in alloys. <i>Physical Review B</i> , 1980, 21, 2072-2077.	3.2	19
44	Polymorphism of Metals. III.Theory of the Temperature-Pressure Phase Diagram of Iron. <i>Physica Scripta</i> , 1976, 13, 59-64.	2.5	50
45	Electron Renormalization of the Electronic Heat Capacity in Simple Metals. <i>Physica Scripta</i> , 1975, 12, 337-338.	2.5	12
46	New aspects on the thermodynamic functions of iron. <i>Solid State Communications</i> , 1974, 14, 551-553.	1.9	8
47	On rigid bands and mass enhancements in noble metal alloys. <i>European Physical Journal B</i> , 1972, 14, 101-104.	1.5	7
48	New aspects on the electron-phonon system at finite temperatures with an application on lead and mercury. <i>European Physical Journal B</i> , 1969, 9, 283-299.	1.5	21
49	Temperature effects in cyclotron resonance and specific heat electron masses. <i>Solid State Communications</i> , 1969, 7, 213-215.	1.9	8
50	Temperature dependent effective masses of conduction electrons. <i>Journal of Physics and Chemistry of Solids</i> , 1968, 29, 1221-1225.	4.0	95
51	Numerical calculations on the electron-phonon system in sodium. <i>European Physical Journal B</i> , 1967, 6, 15-22.	1.5	9