

Herbert Ipser

List of Publications by Year in descending order

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91
papers

1,281
citations

430874

18
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454955

30
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94
all docs

94
docs citations

94
times ranked

1026
citing authors

#	ARTICLE	IF	CITATIONS
1	A new investigation of the system Ni–Sn. <i>Intermetallics</i> , 2007, 15, 869-884.	3.9	187
2	A new investigation of the system Ni–P. <i>Intermetallics</i> , 2009, 17, 826-834.	3.9	57
3	Overview: The emf method as a source of experimental thermodynamic data. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2010, 34, 271-278.	1.6	51
4	The Al–Ni–Si phase diagram. Part II. <i>Intermetallics</i> , 2004, 12, 545-554.	3.9	47
5	Mechanical Size Effects in Miniaturized Lead-Free Solder Joints. <i>Journal of Electronic Materials</i> , 2008, 37, 102-109.	2.2	40
6	Reinvestigation of the binary Fe-Sb phase diagram. <i>Journal of Alloys and Compounds</i> , 1997, 247, 247-249.	5.5	39
7	Vapor pressure methods: A source of experimental thermodynamic data. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1998, 102, 1217-1224.	0.9	36
8	Energetics of point defect formation in Ni ₃ Al. <i>Scripta Materialia</i> , 2002, 46, 37-41.	5.2	34
9	Sn–Ag–Cu nanosolders: Melting behavior and phase diagram prediction in the Sn-rich corner of the ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2015, 49, 101-109.	1.6	29
10	Intermetallic phases with D0 ₃ -structure: a statistical-thermodynamic model. <i>Journal of Alloys and Compounds</i> , 2002, 338, 20-25.	5.5	26
11	The Al–Ni–Si phase diagram—Part III: Phase equilibria in the nickel rich part. <i>Intermetallics</i> , 2006, 14, 491-497.	3.9	26
12	The Co-Sb phase diagram and some properties OF NiAs-type Co _{1-x} Sb. <i>Journal of the Less Common Metals</i> , 1990, 166, 103-114.	0.8	21
13	Isothermal Sections in the (Fe, Ni)-Rich Part of the Fe-Ni-Al Phase Diagram. <i>Journal of Phase Equilibria and Diffusion</i> , 2008, 29, 300-304.	1.4	21
14	Synthesis and thermal behavior of tin-based alloy (Sn–Ag–Cu) nanoparticles. <i>Nanoscale</i> , 2015, 7, 5843-5851.	5.6	20
15	Enthalpy Effect of Adding Cobalt to Liquid Sn-3.8Ag-0.7Cu Lead-Free Solder Alloy: Difference between Bulk and Nanosized Cobalt. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1881-1890.	3.1	20
16	Nonstoichiometry in B8-Type NiSb. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1986, 533, 205-214.	1.2	19
17	Thermodynamic modeling of the Ni–In system. <i>International Journal of Materials Research</i> , 2002, 93, 825-832.	0.8	19
18	Constraining Effects of Lead-Free Solder Joints During Stress Relaxation. <i>Journal of Electronic Materials</i> , 2009, 38, 392-399.	2.2	18

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19	Tin Pest in Sn-0.5Cu Lead-Free Solder Alloys: A Chemical Analysis of Trace Elements. Journal of Electronic Materials, 2010, 39, 105-108.	2.2	18
20	Synthesis of Single-Phase Sn ₃ P ₄ by an Isopiestic Method. Chemistry of Materials, 2009, 21, 4108-4110.	6.7	17
21	Thermochemical Investigations in the System Cadmium-Praseodymium Relevant for Pyrometallurgical Fuel Reprocessing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 1171-1180.	2.2	17
22	Viscosity of liquid Co-Sn alloys: thermodynamic evaluation and experiment. Physics and Chemistry of Liquids, 2014, 52, 562-570.	1.2	17
23	On the non-occurrence of tin pest in tin-silver-indium solders. Scripta Materialia, 2005, 52, 89-92.	5.2	16
24	BiMn: Synthesis, separation by centrifugation, and characterization. Journal of Alloys and Compounds, 2018, 741, 682-688.	5.5	16
25	Lead-free solder materials: Experimental enthalpies of mixing of liquid Ag-In-Pd-Sn alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 1273-1277.	2.2	15
26	The high-temperature phase equilibria of the Ni-Sn-Zn system: Isothermal sections. Intermetallics, 2011, 19, 1489-1501.	3.9	15
27	Pressure dependence of the tin-phosphorus phase diagram. Monatshefte für Chemie, 2012, 143, 1593-1602.	1.8	15
28	The Isopiestic Method and Its Application to a Thermodynamic Study of the Au-Zn System. , 1989, , 293-306.		15
29	Contact materials for III-V semiconductors: phase equilibria of InSb in the ternary system In-Ni-Sb. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 55, 44-52.	3.5	14
30	Phase Equilibria in the Ag-Ni-Sn System: Isothermal Sections. Journal of Electronic Materials, 2007, 36, 1415-1428.	2.2	14
31	Thermodynamic study of the cerium-cadmium system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 44, 14-20.	1.6	14
32	Phase relationships in the ternary Ga-Ni-Sb system. Journal of Alloys and Compounds, 2000, 302, 128-136.	5.5	13
33	The nonstoichiometric η -Ni ₂ In phase with B8 ₂ -structure: thermodynamic modeling. Intermetallics, 2002, 10, 485-491.	3.9	13
34	Experimental Investigation of the Binary Mn-Sb Phase Diagram. Journal of Phase Equilibria and Diffusion, 2016, 37, 459-468.	1.4	13
35	An attempt to synthesize Sn-Zn-Cu alloy nanoparticles. Materials Letters, 2016, 178, 10-14.	2.6	13
36	Estimation of point defect formation energies in the D019-type intermetallic compound Ti ₃ Al. Solid State Sciences, 2002, 4, 1113-1117.	3.2	12

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37	Thermodynamics and nonstoichiometry in the D03 compound Ni3Sb. <i>Intermetallics</i> , 2007, 15, 862-868.	3.9	12
38	Thermochemical investigations in the tin-phosphorus system. <i>International Journal of Materials Research</i> , 2011, 102, 93-103.	0.3	12
39	Synthesis and characterization of Sn-rich Ni-Sb-Sn nanosolders. <i>Journal of Alloys and Compounds</i> , 2012, 513, 224-229.	5.5	12
40	The Crystal Structure of Ni21Sn2P6. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 301-306.	1.2	11
41	Phase equilibria and structural investigations of the general NiAs-type in the ternary system Ni-Sn-Te. <i>Intermetallics</i> , 2014, 46, 199-210.	3.9	11
42	Enthalpies of formation of Cd-Pr intermetallic compounds and thermodynamic assessment of the Cd-Pr system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2014, 47, 56-62.	1.6	11
43	Thermochemical investigations in the system Cd-Gd. <i>Journal of Alloys and Compounds</i> , 2014, 610, 676-683.	5.5	11
44	Phase equilibria in the ternary Ga-Pt-Sb system. <i>Journal of Alloys and Compounds</i> , 1998, 281, 241-248.	5.5	10
45	Synthesis and Structural Characterization of Ternary Compounds Belonging to the Series $\langle RE \rangle_{2+m}Ni_{4+m}Al_{15+4m}$ ($\langle RE \rangle$ = rare earth metal). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 365-368.	1.2	10
46	Enthalpies of mixing of liquid systems for lead-free soldering: Cu-Sb-Sn system. <i>Thermochimica Acta</i> , 2011, 512, 217-224.	2.7	10
47	Dynamic viscosity of a liquid Sn-3.0Ag-0.5Cu alloy with Ni nanoparticles. <i>Journal of Molecular Liquids</i> , 2018, 268, 176-180.	4.9	10
48	Thermodynamic investigations in the lanthanum-cadmium system. <i>Journal of Alloys and Compounds</i> , 2004, 365, 181-187.	5.5	9
49	Experimental Investigation of the Cd-Pr Phase Diagram. <i>PLoS ONE</i> , 2014, 9, e94025.	2.5	9
50	Correlations in the arrangement of antistructure point defects in intermetallic phases with B2 (CsCl) structure. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002, 82, 3013-3025.	0.6	8
51	Ni, Pd, or Pt as contact materials for GaSb and InSb semiconductors: Phase diagrams. <i>Journal of Electronic Materials</i> , 2003, 32, 1136-1140.	2.2	8
52	Experimental Phase Diagram Investigations in the Ni-Rich Part of Al-Fe-Ni and Comparison with Calculated Phase Equilibria. <i>Journal of Phase Equilibria and Diffusion</i> , 2007, 28, 417-421.	1.4	8
53	Phase equilibria in the ternary Ni-Sb-Sn system: Experiments and calculations. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2014, 45, 151-166.	1.6	8
54	Reinvestigation of the Cd-Gd phase diagram. <i>Journal of Alloys and Compounds</i> , 2014, 617, 292-301.	5.5	8

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55	Sn-Ag-Cu Nanosolders: Solder Joints Integrity and Strength. Journal of Electronic Materials, 2016, 45, 4390-4399.	2.2	8
56	Palladium as a contact material for InSb semiconductorsâ€”The In-Pd-Sb phase diagram. Journal of Electronic Materials, 2003, 32, 43-51.	2.2	7
57	Phase Equilibria in the Sn-Rich Corner of the Ni-Sb-Sn System. Journal of Electronic Materials, 2013, 42, 646-653.	2.2	7
58	Thermodynamic modelling of the general NiAs-type structure: A study of first principle energies of formation for binary Ni-containing B8 compounds. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2015, 50, 174-181.	1.6	7
59	The Binary Bi-Rh Phase Diagram: Stable and Metastable Phases. Journal of Phase Equilibria and Diffusion, 2018, 39, 17-34.	1.4	7
60	Thermodynamics and nonstoichiometry in the intermetallic compound Pt ₃ In. Intermetallics, 2004, 12, 401-406.	3.9	6
61	Ni-Rich Part of the System Ni-P-Sn: Thermal Behavior. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 43-56.	2.2	6
62	Phase equilibria in the neodymiumâ€”cadmium binary system. Journal of Alloys and Compounds, 2014, 606, 242-248.	5.5	6
63	Enthalpies of mixing of liquid ternary Coâ€”Liâ€”Sn alloys. Monatshefte FÃ¼r Chemie, 2014, 145, 1697-1706.	1.8	6
64	Antimony activities in the ternary NiAs-phase of the Inâ€”Niâ€”Sb system. Thermochemica Acta, 1998, 314, 137-144.	2.7	5
65	A thermodynamic study of the D0 ₃ -ordered intermetallic compound Fe ₃ Al. Journal of Alloys and Compounds, 2008, 458, 277-281.	5.5	5
66	Thermochemistry of the nickelâ€”phosphorus system. Intermetallics, 2011, 19, 927-933.	3.9	5
67	The Inâ€”Ptâ€”Sb phase diagram. International Journal of Materials Research, 2006, 97, 533-538.	0.3	4
68	AuNi ₃ Si ₆ and Au ₂ Ni ₄ Si ₇ : Two New Structure Types Related to the CaF ₂ -Type Structure. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 1428-1434.	1.2	4
69	Phase equilibria and structural investigations of the general NiAs-type in the ternary system Niâ€”Ptâ€”Sn. Journal of Alloys and Compounds, 2015, 618, 803-814.	5.5	4
70	Pt ₃ Ga: Thermodynamics and Nonstoichiometry. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2004, 59, 999-1005.	0.7	3
71	Comment on the paper â€œExperimental determination of phase equilibrium in the Feâ€”Coâ€”Sb ternary systemâ€”by Pongsaton Amornpitoksuk, Hongxiao Li, Jean-Claude Tedenac, Suzana G. Fries, Didier Ravot (Intermetallics 15 (2007) 475â€”78). Intermetallics, 2008, 16, 119-120.	3.9	3
72	Thermochemistry of liquid Niâ€”Sbâ€”Sn alloys. Thermochemica Acta, 2012, 536, 68-73.	2.7	3

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73	A thermodynamic study of the cadmium-neodymium system. Monatshefte für Chemie, 2016, 147, 1001-1008.	1.8	3
74	Liquid Co-Sn alloys at high temperatures: structure and physical properties. Physics and Chemistry of Liquids, 2016, 54, 440-453.	1.2	3
75	Who Will Do the Necessary Experiments?. Journal of Phase Equilibria and Diffusion, 2017, 38, 1-2.	1.4	3
76	Single-crystal structure determination of two new ternary bismuthides: $Rh_6Mn_5Bi_{18}$ and $RhMnBi_3$. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 863-869.	0.5	3
77	The Ternary Bi-Mn-Sb Phase Diagram and the Crystal Structure of the Ternary β Phase $Bi_{0.8}MnSb_{0.2}$. Journal of Phase Equilibria and Diffusion, 2019, 40, 462-481.	1.4	3
78	Thermodynamic characterization of liquid alloys with demixing tendency: Bi-Ga. International Journal of Materials Research, 2008, 99, 18-23.	0.3	3
79	On the ternary B 2-phase in the Al-Co-Ga system. Monatshefte für Chemie, 1992, 123, 509-513.	1.8	2
80	A3B Intermetallics: Defect chemistry and nonstoichiometry. Pure and Applied Chemistry, 2007, 79, 1675-1689.	1.9	2
81	Re-investigation of the Cd-Ce Phase Diagram and Structural Characterization of the High-Temperature Phase $Cd_{17+2x}Ce_{2x}$ ($x \sim 0.02$). Journal of Phase Equilibria and Diffusion, 2016, 37, 186-200.	1.4	2
82	Thermodynamics of liquid Au-Sb-Sn. International Journal of Materials Research, 2012, 103, 1462-1468.	0.3	1
83	Comment on "Thermodynamic optimization of Co-Ge binary system" by S.S. Dong, S.G. Liu, X.M. Tao, F.H. Xiao, L.H. Huang, F. Yang, Y. He, Q. Chen, H.S. Liu, Z.P. Jin [Thermochim. Acta 572 (2013) 94-100]. Thermochimica Acta, 2014, 588, 57-58.	2.7	1
84	Experimental investigation of the ternary system Ni-Pd-Sn with special focus on the B8-type phase. Journal of Alloys and Compounds, 2015, 649, 297-306.	5.5	1
85	Electrical conductivity and thermoelectric power of liquid Co-Sn alloys. Physics and Chemistry of Liquids, 2015, 53, 200-206.	1.2	1
86	Thermodynamic Investigations in the Lanthanum-Cadmium System.. ChemInform, 2005, 36, no.	0.0	0
87	Phasengleichgewichte und ternäre Verbindungen im System Ni-P-Sn. Zeitschrift Für Anorganische Und Allgemeine Chemie, 2008, 634, 2048-2048.	1.2	0
88	Phosphor in der Elektronik. Nachrichten Aus Der Chemie, 2011, 59, 831-833.	0.0	0
89	Open Access: What Do You Think About It?. Journal of Phase Equilibria and Diffusion, 2013, 34, 179-180.	1.4	0
90	Comment on the paper "Experimental investigation and thermodynamic assessment of the Mn-In binary system" by L.Y. Wang, J. Wang, C.F. Zhu, G. Cheng, C.Y. Tang, G.H. Rao, H.Y. Zhou (Thermochim. Acta 607) [Thermochim. Acta 607 (2011) 100-104].	0.0	0

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91	TOFA: Discussion Meeting on Thermodynamics of Alloys. Journal of Phase Equilibria and Diffusion, 2015, 36, 197-197.	1.4	0