

Klaus W Richter

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.

123
papers

1,458
citations

19
h-index

32
g-index

153
ext. papers

1,642
ext. citations

3.5
avg, IF

4.69
L-index

#	Paper	IF	Citations
123	Experimental Phase Diagram of the Ag-Se-Sn System at 250, 400 and 550°C. <i>Journal of Phase Equilibria and Diffusion</i> , 2022 , 43, 32	1	
122	Al-Fe-Ge: Phase equilibria and new ternary compounds at 400°C. <i>Journal of Alloys and Compounds</i> , 2022 , 905, 164178	5.7	1
121	Review of vanadium-based layered compounds. <i>Journal of Alloys and Compounds</i> , 2022 , 891, 161976	5.7	1
120	Thermodynamic properties and phase relations of Zn-rich alloys in the system Pt-Zn. <i>International Journal of Materials Research</i> , 2022 , 97, 429-433	0.5	2
119	Binding Mode Characterization of Osteopontin on Hydroxyapatite by Solution NMR Spectroscopy. <i>ChemBioChem</i> , 2021 , 22, 2300-2305	3.8	2
118	The thermodynamic reassessment of the binary Al-Cu system. <i>Journal of Materials Science</i> , 2021 , 56, 3430-3443	4.3	1
117	The 550 °C and 700 °C isothermal sections and new misfit layer compounds in the Se-Sn-V system. <i>Journal of Alloys and Compounds</i> , 2021 , 871, 159573	5.7	2
116	Phase transformations and phase equilibria in the La-Ni and La-Ni-Fe systems. Part 2: Isothermal sections at 750, 600 and 500°C. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2021 , 74, 102297	1.9	0
115	Vanadium-selenium-based misfit layer compounds – Insights into synthesis, morphology, and structure. <i>Journal of Alloys and Compounds</i> , 2021 , 881, 160578	5.7	1
114	Phase equilibria and new misfit layer compound in the ternary system of Pb-Be-V. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154730	5.7	5
113	Experimental study of the Al-Cu-Zn ternary phase diagram. <i>Journal of Materials Science</i> , 2020 , 55, 10796-10810	4.9	3
112	Reassessment of the Binary Mn-Bi Phase Diagram and Experimental Investigations of the Ternary Bi-Mn-Bi System. <i>Journal of Phase Equilibria and Diffusion</i> , 2020 , 41, 282-298	1	
111	Experimental investigation of phase equilibria in the Nb-Ni-Bi refractory alloy system at 1323 K. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155373	5.7	1
110	Phase Equilibria in the System Ag-Cu-Si. <i>Journal of Phase Equilibria and Diffusion</i> , 2020 , 41, 79-92	1	3
109	Phase transformations and phase equilibria in the La-Ni and La-Ni-Be systems. Part 1: Liquidus & solidus projections. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 156356	5.7	2
108	Experimental isothermal sections of the ternary phase diagram Al-Cu-Bi at 600 °C and 800 °C. <i>Journal of Materials Science</i> , 2020 , 55, 15322-15333	4.3	
107	The Ternary Bi-Mn-Sb Phase Diagram and the Crystal Structure of the Ternary Phase Bi _{0.8} MnSb _{0.2} . <i>Journal of Phase Equilibria and Diffusion</i> , 2019 , 40, 462-481	1	2

106	Experimental investigation of phase equilibria in the Nb ₃ Ni ₃ Bi refractory alloy system at 1073 K. <i>Scripta Materialia</i> , 2019 , 164, 96-100	5.6	4
105	The ternary phase diagram of Sb ₃ Be ₃ V and its subsystems. <i>Journal of Alloys and Compounds</i> , 2019 , 810, 151671	5.7	4
104	Experimental Description of the Al-Cu Binary Phase Diagram. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 3805-3815	2.3	40
103	The phase diagram Au-Ni-Si. <i>Journal of Alloys and Compounds</i> , 2019 , 776, 858-864	5.7	1
102	BiMn: Synthesis, separation by centrifugation, and characterization. <i>Journal of Alloys and Compounds</i> , 2018 , 741, 682-688	5.7	13
101	Simple vapor-solid synthesis of Zn-based intermetallic compounds. <i>Journal of Alloys and Compounds</i> , 2018 , 743, 155-162	5.7	4
100	The Binary Bi-Rh Phase Diagram: Stable and Metastable Phases. <i>Journal of Phase Equilibria and Diffusion</i> , 2018 , 39, 17-34	1	6
99	Single-crystal structure determination of two new ternary bismuthides: RhMnBi and RhMnBi. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 863-869	0.8	3
98	AlBeGe: New ternary compounds and phase equilibria at 800 °C. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 849-857	5.7	5
97	New Iminodiacetate-Thiosemicarbazone Hybrids and Their Copper(II) Complexes Are Potential Ribonucleotide Reductase R2 Inhibitors with High Antiproliferative Activity. <i>Inorganic Chemistry</i> , 2017 , 56, 3532-3549	5.1	34
96	The Sn-rich corner of the system Ni-Pd-Sn: A phase diagram study. <i>Journal of Alloys and Compounds</i> , 2017 , 697, 310-317	5.7	
95	The reassessment of the Al-V system and new assessment of the Al-Si-V system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2017 , 59, 47-60	1.9	6
94	Al _{7+x} Fe ₂₃ Ge ₁₄ and Al _{7+x} Fe ₉ Ge ₅ : Two new ternary compounds related to Fe ₆ Ge ₅ . <i>Journal of Alloys and Compounds</i> , 2017 , 693, 692-699	5.7	5
93	Experimental Investigation of the Binary Mn-Sb Phase Diagram. <i>Journal of Phase Equilibria and Diffusion</i> , 2016 , 37, 459-468	1	10
92	Reactive phase formation and isothermal solidification in the Ni/Au-18.6Si/Ni layer system. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 7-16	5.7	5
91	Liquid Co ₃ N alloys at high temperatures: structure and physical properties. <i>Physics and Chemistry of Liquids</i> , 2016 , 54, 440-453	1.5	3
90	Thermodynamic modelling of the general NiAs-type structure: A study of first principle energies of formation for binary Ni-containing B8 compounds. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2015 , 50, 174-181	1.9	6
89	Experimental investigation of the ternary system NiPd ₃ Sn with special focus on the B8-type phase. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 297-306	5.7	1

88	Al ₁₅ Ge ₄ Ni ₃ : A new intergrowth structure with Cu ₃ Au- and CaF ₂ -type building blocks. <i>Journal of Solid State Chemistry</i> , 2015 , 225, 240-248	3.3	3
87	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	1.9	22
86	Phase equilibria and structural investigations of the general NiAs-type in the ternary system NiPtSn. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 803-814	5.7	4
85	AuNi ₃ Si ₆ and Au ₂ Ni ₄ Si ₇ : Two New Structure Types Related to the CaF ₂ -Type Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015 , 641, 1428-1434	1.3	2
84	Comment on "Thermodynamic optimization of Co-Ce 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]. <i>Thermochimica Acta</i> , 2014 , 588, 57-58	2.9	1
83	Partial liquidus projection and vertical sections in the system Al-Fe-Si. <i>Intermetallics</i> , 2014 , 44, 77-87	3.5	2
82	Phase equilibria in the system Au-Cu-Si and structural characterization of the new compound Au ₅ Cu ₂ Si. <i>Intermetallics</i> , 2014 , 46, 190-198	3.5	4
81	Phase equilibria and structural investigations of the general NiAs-type in the ternary system NiSn-Fe. <i>Intermetallics</i> , 2014 , 46, 199-210	3.5	11
80	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	1.9	9
79	Al-Ge-Ti: Phase equilibria and structural characterization of new ternary compounds. <i>Intermetallics</i> , 2014 , 53, 157-168	3.5	4
78	Characterization of the Fe-rich corner of Al-Fe-Si-Ti. <i>Intermetallics</i> , 2013 , 39, 38-49	3.5	10
77	The Ni-rich part of the Al-Ge-Ni phase diagram. <i>Intermetallics</i> , 2013 , 32, 200-208	3.5	9
76	Revision of the Ge-Ti phase diagram and structural stability of the new phase Ge ₄ Ti ₅ . <i>Journal of Alloys and Compounds</i> , 2013 , 577, 211-216	5.7	11
75	New compounds and phase equilibria in the system Hf-Nb-Ta. <i>Monatshefte Für Chemie</i> , 2012 , 143, 1289-1297	4	3
74	Experimental study of the Fe-Al-Ni-Al-Ti-Al section. <i>Intermetallics</i> , 2012 , 23, 80-90	3.5	4
73	New investigation of phase equilibria in the system Al-Cu-Si. <i>Journal of Alloys and Compounds</i> , 2012 , 512, 252-263	5.7	39
72	Phase equilibria and structural investigations in the Ni-poor part of the system Al-Ge-Ni. <i>Intermetallics</i> , 2012 , 28, 84-91	3.5	11
71	Phase equilibria in the Al-Si-V system: The vanadium rich part. <i>Intermetallics</i> , 2011 , 19, 369-375	3.5	5

70	Phase equilibria in the AlMoSi system. <i>Intermetallics</i> , 2011 , 19, 409-418	3.5	13
69	Experimental investigation of the Cu-Si phase diagram at (Cu)>0.72. <i>Intermetallics</i> , 2011 , 19, 1479-1488	3.5	33
68	Re-investigation of phase equilibria in the system Al-Cu and structural analysis of the high-temperature phase ϵ -AlCu. <i>Intermetallics</i> , 2011 , 19, 1737-1746	3.5	72
67	Incongruent, time-dependent chemical vapour transport in multi-component systems: A case study in CrGeSi. <i>Solid State Sciences</i> , 2011 , 13, 1108-1114	3.4	1
66	The AlCoSi phase diagram. <i>Intermetallics</i> , 2011 , 19, 307-320	3.5	9
65	Phase equilibria and structural investigations in the system Al-Fe-Si. <i>Intermetallics</i> , 2011 , 19, 1919-1929	3.5	82
64	Phase equilibria in the AlSiV system. <i>Intermetallics</i> , 2010 , 18, 606-615	3.5	20
63	Observation of the new binary low temperatures compound AlV. <i>Journal of Alloys and Compounds</i> , 2010 , 493, L33-L35	5.7	7
62	A revision of the central part of the CrGe phase diagram. <i>Journal of Alloys and Compounds</i> , 2010 , 500, L6-L8	5.7	5
61	The crystal structures of Hf ₃ Nb ₄ As ₃ and Hf _{7.2} Nb _{3.8} As ₄ : Members of a homologous series combining W-type, Mg-type and AlB ₂ -type building blocks. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 557-564	3.3	1
60	Redetermination of iron dialuminide, FeAl ₂ . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2010 , 66, i87-8		29
59	Partial ordering in the section Hf ₅ Ge ₄ Zr ₅ Ge ₄ : Crystallographic investigation and modeling based on ab initio calculations. <i>Solid State Sciences</i> , 2009 , 11, 395-401	3.4	10
58	Crystal structures, site occupations and phase equilibria in the system VZrGe. <i>Solid State Sciences</i> , 2009 , 11, 1475-1483	3.4	4
57	The Crystal Structure of Ni ₂₁ Sn ₂ P ₆ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009 , 635, 301-306		10
56	Synthesis and Structural Characterization of Ternary Compounds Belonging to the Series RE ₂ +mNi ₄ +mAl ₁₅ +4m (RE = rare earth metal). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009 , 635, 365-368	1.3	7
55	The crystal structure of Hf _{1.5} Nb _{1.5} As and structure-composition relations in the section Hf ₃ AsNb ₃ As. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 896-904	3.3	5
54	Phase equilibria and chemical vapor transport in the system MoTaAs. <i>Journal of Alloys and Compounds</i> , 2009 , 480, 397-402	5.7	2
53	Synthesis of Single-Phase Sn ₃ P ₄ by an Isopiestic Method. <i>Chemistry of Materials</i> , 2009 , 21, 4108-4110	9.6	15

52	Phase equilibria in the system HfZrGe at 1350°C. <i>Journal of Alloys and Compounds</i> , 2008 , 452, 80-84	5.7	5
51	Comment on the paper Experimental determination of phase equilibrium in the FeCoSb ternary system by Pongsaton Amornpitoksuk, Hongxiao Li, Jean-Claude Tedenac, Suzana G. Fries, Didier Ravot (<i>Intermetallics</i> 15 (2007) 475-48). <i>Intermetallics</i> , 2008 , 16, 119-120	3.5	3
50	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	17
49	Thermodynamic characterization of liquid alloys with demixing tendency: BiGa. <i>International Journal of Materials Research</i> , 2008 , 99, 18-23	0.5	2
48	Crystal structure and local order in Co(6)Al(11-x)Si(6+x). <i>Acta Crystallographica Section B: Structural Science</i> , 2007 , 63, 551-60		2
47	Thermodynamic modelling of the partially ordered solid solution Hf ₅ Nb _x Ge ₄ supported by ab initio calculations. <i>Solid State Sciences</i> , 2007 , 9, 159-165	3.4	8
46	Phase Equilibria in the Ag-Ni-Sn System: Isothermal Sections. <i>Journal of Electronic Materials</i> , 2007 , 36, 1415-1428	1.9	11
45	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	7
44	Thermodynamic assessment of the BiSnZn System. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2007 , 31, 438-448	1.9	62
43	Preparation and crystal structure of nanocrystalline RuZn ₃ . <i>Journal of Alloys and Compounds</i> , 2007 , 427, 300-304	5.7	2
42	Assessment of thermodynamic properties and phase diagram in the AgInPd system. <i>Intermetallics</i> , 2007 , 15, 77-84	3.5	4
41	A new investigation of the system NiSn. <i>Intermetallics</i> , 2007 , 15, 869-884	3.5	158
40	Thermodynamics and nonstoichiometry in the D03 compound Ni ₃ Sb. <i>Intermetallics</i> , 2007 , 15, 862-868	3.5	11
39	The FeNiAl phase diagram in the Al-rich (>50at.% Al) corner. <i>Intermetallics</i> , 2007 , 15, 1416-1424	3.5	46
38	The InPtSb phase diagram. <i>International Journal of Materials Research</i> , 2006 , 97, 533-538	0.5	3
37	The AlNiBi phase diagram Part III: Phase equilibria in the nickel rich part. <i>Intermetallics</i> , 2006 , 14, 491-497	3.5	23
36	Crystal structures of cobalt aluminum silicide, Co _{19+x} Al _{43+y} (x = -0.14, y = 0.14; x = 0.49, y = -0.49), the β phase in the Co-Al-Si system. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2006 , 221, 115-118	0.2	
35	Crystal structures of cobalt aluminum silicide, Co _{19+x} Al _{43+y} Si _{12-y} (x = -0.14, y = 0.14; x = 0.49, y = -0.49), the β phase in the Co-Al-Si system. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2006 , 221, 115-118	0.2	

34	Crystal structure of cobalt aluminum silicide, $\text{Co}_{10+x}\text{Al}_2\text{Si}_9-2x$ ($x = 0.14$), the β phase in the Co-Al-Si system. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2006 , 221, 112-114	0.2	
33	Thermodynamic properties and phase relations of Zn-rich alloys in the system Pt-Zn. <i>International Journal of Materials Research</i> , 2006 , 97, 429-433	0.5	2
32	Phase equilibria in the system Al-Co-Si. <i>Intermetallics</i> , 2005 , 13, 848-856	3.5	19
31	Crystal structure, chemical bonding, and phase relations of the novel compound $\text{Co}_4\text{Al}(7+x)\text{Si}(2-x)$ (0.27 Inorganic Chemistry, 2005 , 44, 4576-85	5.1	15
30	Phase Equilibria in the Ag-In-Pd System at 700°C. <i>Monatshefte Für Chemie</i> , 2005 , 136, 1931-1937	1.4	5
29	Fractional Site Occupation in Ternary Metal Compounds: Structure, Bonding, and Thermodynamics. <i>Monatshefte Für Chemie</i> , 2005 , 136, 1885-1897	1.4	6
28	Preparation and Crystal Structure of $\text{Ni}_{16}\text{Si}_9\text{Al}$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004 , 630, 417-422	1.3	8
27	The Al-Ni-Si phase diagram. Part II. <i>Intermetallics</i> , 2004 , 12, 545-554	3.5	42
26	On the low temperature stability of In_2Pt . <i>Journal of Alloys and Compounds</i> , 2004 , 365, L4-L6	5.7	3
25	Thermodynamic investigations in the lanthanum-cadmium system. <i>Journal of Alloys and Compounds</i> , 2004 , 365, 181-187	5.7	8
24	Ni, Pd, or Pt as contact materials for GaSb and InSb semiconductors: Phase diagrams. <i>Journal of Electronic Materials</i> , 2003 , 32, 1136-1140	1.9	8
23	Palladium as a contact material for InSb semiconductors—the In-Pd-Sb phase diagram. <i>Journal of Electronic Materials</i> , 2003 , 32, 43-51	1.9	6
22	Fractional site occupation of $\text{Hf}_5\text{Nb}_x\text{Ge}_4$: crystallographic investigation and thermodynamic modeling. <i>Solid State Sciences</i> , 2003 , 5, 653-662	3.4	8
21	β - $\text{Pt}_5\text{Zn}_{21}$ reappraisal of a brass type complex alloy phase. <i>Solid State Sciences</i> , 2003 , 5, 1309-1317	3.4	46
20	The Al-Ni-Si phase diagram between 0 and 33.3 at.% Ni. <i>Intermetallics</i> , 2003 , 11, 101-109	3.5	37
19	$\text{NiAl}_{1.74}\text{Al}_{0.26}$ and $\text{NiSi}_{1.83}\text{Ga}_{0.17}$: Two materials with perfect lattice match to Si. <i>Applied Physics Letters</i> , 2003 , 83, 497-499	3.4	14
18	The Ternary Compounds $\text{Pd}_{13}\text{In}_5.25\text{Sb}_{3.75}$ and $\text{PdIn}_{1.26}\text{Sb}_{0.74}$: Crystal Structure and Electronic Structure Calculations. <i>Journal of Solid State Chemistry</i> , 2002 , 164, 110-118	3.3	5
17	New Ternary Compounds $\text{MxTa}_{11}\text{Ge}_8$ (M=Ti, Zr, Hf): Structure and Stabilization. <i>Journal of Solid State Chemistry</i> , 2002 , 167, 517-524	3.3	5

16	New Ternary Compounds $MxTa_{11}Ge_8$ (M=Ti, Zr, Hf): Structure and Stabilization. <i>Journal of Solid State Chemistry</i> , 2002 , 167, 517-524	3-3	9
15	Crystal structure and phase relations of $Ni_{13}Al_9Si_9$. <i>Journal of Alloys and Compounds</i> , 2002 , 338, 43-50	5-7	11
14	The binary system $InPt$: a new investigation of phase relationships, crystal structures, and enthalpies of mixing. <i>Journal of Alloys and Compounds</i> , 2002 , 345, 130-139	5-7	9
13	The binary system $ReAl$. <i>Journal of Alloys and Compounds</i> , 2001 , 320, 224-227	5-7	22
12	On the stability of hexagonal Ge_7Nb_{10} . <i>Journal of Alloys and Compounds</i> , 2001 , 320, 87-92	5-7	8
11	Structure-Composition Relations and Fractional Site Occupancy of New M_5Ge_4 Compounds in the System $Ge-Ta-Zr$. <i>Journal of Solid State Chemistry</i> , 2000 , 150, 347-355	3-3	18
10	Thermodynamics of the $[IrPt]$ system. <i>Journal of Alloys and Compounds</i> , 2000 , 296, 119-127	5-7	9
9	Phase relationships in the ternary $GaNiSb$ system. <i>Journal of Alloys and Compounds</i> , 2000 , 302, 128-136	5-7	10
8	The ternary $In-Ni-Sb$ phase diagram in the vicinity of the binary $In-Ni$ system. <i>Journal of Phase Equilibria and Diffusion</i> , 1998 , 19, 455-465		8
7	The ternary $Ga-Pd-Sb$ phase diagram: A system relevant to contact materials for $GaSb$. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1998 , 102, 1245-1251		9
6	Antimony activities in the ternary $NiAs$ -phase of the $InNiSb$ system. <i>Thermochimica Acta</i> , 1998 , 314, 137-144	2-9	5
5	Contact materials for III-V semiconductors: phase equilibria of $InSb$ in the ternary system $InNiSb$. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1998 , 55, 44-52	3-1	13
4	Phase equilibria in the ternary $GaPtSb$ system. <i>Journal of Alloys and Compounds</i> , 1998 , 281, 241-248	5-7	8
3	Reinvestigation of the binary $Fe-Sb$ phase diagram. <i>Journal of Alloys and Compounds</i> , 1997 , 247, 247-249	5-7	36
2	An experimental investigation of the $Fe-Ni-Sb$ ternary phase diagram. <i>Journal of Phase Equilibria and Diffusion</i> , 1997 , 18, 235-244		14
1	Transition metal- chalcogen systems XI: the platinum- selenium phase diagram. <i>Journal of Phase Equilibria and Diffusion</i> , 1994 , 15, 165-170		11