

V V Romaka

List of Publications by Year in descending order

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papers

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115
all docs

115
docs citations

115
times ranked

770
citing authors

#	ARTICLE	IF	CITATIONS
1	On the constitution and structural characterization of the ternary system Sm-Ni-Sn. Journal of Solid State Chemistry, 2022, , 123213.	1.4	0
2	Experimental and theoretical investigation of the Yâ€“Niâ€“Sb and Tmâ€“Niâ€“Sb systems. Journal of Alloys and Compounds, 2021, 855, 157334.	2.8	6
3	Mechanism of Defect Formation in Zr1 â€“ xVxNiSn Thermoelectric Material. Ukrainian Journal of Physics, 2021, 66, 333.	0.1	1
4	Physical properties of {Ti,Zr,Hf}2Ni2Sn compounds. Dalton Transactions, 2021, 51, 361-374.	1.6	0
5	Crystal structure and magnetic properties of TmV0.17Ge2 and LuV0.15Ge2 ternary germanides. Journal of Physics and Chemistry of Solids, 2020, 137, 109205.	1.9	1
6	Determination of structural disorder in Heusler-type phases. Computational Materials Science, 2020, 172, 109307.	1.4	12
7	Synthesis, electrical transport, magnetic properties and electronic structure of Ti1-Sc CoSb semiconducting solid solution. Journal of Alloys and Compounds, 2019, 805, 840-846.	2.8	1
8	High-ZT half-Heusler thermoelectrics, Ti0.5Zr0.5NiSn and Ti0.5Zr0.5NiSn0.98Sb0.02: Physical properties at low temperatures. Acta Materialia, 2019, 166, 466-483.	3.8	31
9	Thermoelectric Half-Heusler compounds TaFeSb and Ta1-xTixFeSb (0 â‰‰ x â‰‰ 0.11): Formation and physical properties. Intermetallics, 2019, 111, 106468.	1.8	14
10	MgB2 Wires and Bulks With High Superconducting Performance. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	3
11	Manufacturing, Structure, Properties of MgB2-Based Materials. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3115-3120.	0.8	1
12	Correlations Between Superconducting Characteristics and Structure of MgB2-Based Materials, <italic>ab</italic>-Initio Modeling. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-7.	1.1	1
13	Investigation of Electronic Structure of Zr1-xVxNiSn Semiconductive Solid Solution. Physics and Chemistry of Solid State, 2019, 20, 127-132.	0.3	0
14	Er-Cr-Ge Ternary System. Physics and Chemistry of Solid State, 2019, 20, 376-383.	0.3	0
15	Structure and Properties of MgB2: Effect of Ti-O and TiC Additions. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	4
16	On the constitution and thermodynamic modelling of the system Zr-Ni-Sn. Journal of Alloys and Compounds, 2018, 742, 1058-1082.	2.8	20
17	Experimental and DFT study of the Vâ€“Coâ€“Sb ternary system. Journal of Alloys and Compounds, 2018, 739, 771-779.	2.8	5
18	The half Heusler system Ti_{1+x}Fe_{1.33âˆ™x}Sbâ€“TiCoSb with Sb/Sn substitution: phase relations, crystal structures and thermoelectric properties. Dalton Transactions, 2018, 47, 879-897.	1.6	36

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19	Preparation and Properties of MgB ₂ Thin Films. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-7.	1.1	1
20	Interaction of the components in the Gd-Mn-Sn ternary system at 873 and 673 K. Physics and Chemistry of Solid State, 2018, 19, 60-65.	0.3	0
21	Isothermal section of the Ho-Cu-Sn ternary system at 670 K. Physics and Chemistry of Solid State, 2018, 19, 139-146.	0.3	1
22	Investigation of structural, thermodynamic and energy state characteristics of the ZrNi _{1-x} Rh _x Sn solid solution. Physics and Chemistry of Solid State, 2018, 19, 151-158.	0.3	0
23	Crystallographic, magnetic and electrical characteristics of R ₃ Ni ₈ Sn ₄ compounds (R=Nd, Sm, Gd). J. Appl. Phys. 107, 083901 (2010).	2.8	2
24	Features of the band structure and conduction mechanisms of n-HfNiSn heavily doped with Y. Semiconductors, 2017, 51, 139-145.	0.2	1
25	(V,Nb)-doped half Heusler alloys based on {Ti,Zr,Hf}NiSn with high ZT. Acta Materialia, 2017, 131, 336-348.	3.8	119
26	Structure and Properties of MgB ₂ Bulks, Thin Films, and Wires. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	10
27	Prediction of the Thermoelectric Properties of Half-Heusler Phases from the Density Functional Theory. J. Phys.: Condens. Matter, 2017, 29, 286-323.		1
28	Investigation of Band Structure of ZrNiSn _{1-x} Ga _x Semiconductor Solid Solution. Physics and Chemistry of Solid State, 2017, 18, 187-193.	0.3	0
29	Peculiarities of thermoelectric half-Heusler phase formation in Gd-Ni-Sb and Lu-Ni-Sb ternary systems. Journal of Solid State Chemistry, 2016, 239, 145-152.	1.4	25
30	Features of conductivity mechanisms in heavily doped compensated V _{1-x} Ti _x FeSb Semiconductor. Semiconductors, 2016, 50, 860-868.	0.2	5
31	Thermoelectric high ZT half-Heusler alloys Ti _{1-x} Zr _x Hf _y NiSn (0 ≤ x ≤ 1; 0 ≤ y ≤ 1). Acta Materialia, 2016, 104, 210-222.	3.8	166
32	Phase relationships in the {Ho, Er}-Ni-Sn ternary systems at 673K and crystal structure of new ternary compounds. Journal of Alloys and Compounds, 2015, 631, 288-297.	2.8	4
33	Features of the band structure and conduction mechanisms of n-HfNiSn semiconductor heavily Lu-doped. Semiconductors, 2015, 49, 290-297.	0.2	4
34	Structural defect generation and band-structure features in the HfNi _{1-x} Co _x Sn semiconductor. Semiconductors, 2015, 49, 985-991.	0.2	1
35	On the constitution and thermodynamic modelling of the system Ti-Ni-Sn. RSC Advances, 2015, 5, 92270-92291.	1.7	43
36	The Sr-poor part of the Sr-Pd-Si, Pt-Si, Ge systems: Phase equilibria and crystal structure of ternary phases. Journal of Alloys and Compounds, 2015, 618, 656-665.	2.8	3

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37	Features of the band structure and conduction mechanisms in the n-HfNiSn semiconductor heavily doped with Ru. <i>Semiconductors</i> , 2014, 48, 1545-1551.	0.2	2
38	The system Ba ²⁺ Zn ²⁺ Sn at 500 Å°C: Phase equilibria, crystal and electronic structure of ternary phases. <i>Journal of Alloys and Compounds</i> , 2014, 585, 287-298.	2.8	9
39	Formation and stability of the clathrate-I structure in the systems Sr ²⁺ (Ni,Cu,Zn) ²⁺ Ge based on experimental and DFT studies. <i>Intermetallics</i> , 2014, 46, 185-189.	1.8	4
40	Peculiarities of thermoelectric half-Heusler phase formation in Zr ²⁺ Co ²⁺ Sb ternary system. <i>Journal of Alloys and Compounds</i> , 2014, 585, 448-454.	2.8	21
41	The V ²⁺ Cu ²⁺ Sb ternary system at 773K: Crystal, band structure, and physical properties. <i>Journal of Alloys and Compounds</i> , 2014, 589, 200-206.	2.8	8
42	Peculiarity of component interaction in Zr ²⁺ Mn ²⁺ {Sn, Sb} ternary systems. <i>Journal of Alloys and Compounds</i> , 2014, 611, 401-409.	2.8	7
43	Contribution to the investigation of the Y ²⁺ Cu ²⁺ Sn ternary system. <i>Chemistry of Metals and Alloys</i> , 2014, 7, 132-138.	0.2	3
44	Effect of the accumulation of excess Ni atoms in the crystal structure of the intermetallic semiconductor n-ZrNiSn. <i>Semiconductors</i> , 2013, 47, 892-898.	0.2	14
45	Features of conduction mechanisms in n-HfNiSn semiconductor heavily doped with a Rh acceptor impurity. <i>Semiconductors</i> , 2013, 47, 1145-1152.	0.2	4
46	Novel Refractory Phase, Ta ₇ Si ₂ (SixB _{1-x}) ₂ . <i>Inorganic Chemistry</i> , 2013, 52, 11295-11301.	1.9	1
47	Peculiarities of structural disorder in Zr- and Hf-containing Heusler and half-Heusler stannides. <i>Intermetallics</i> , 2013, 35, 45-52.	1.8	48
48	Phase equilibria, formation, crystal and electronic structure of ternary compounds in Ti ²⁺ Ni ²⁺ Sn and Ti ²⁺ Ni ²⁺ Sb ternary systems. <i>Journal of Solid State Chemistry</i> , 2013, 197, 103-112.	1.4	53
49	Structural, magnetic and electronic transport studies of RAgSn ₂ compounds (R = Y, Tb, Dy, Ho and Er) with Cu ₃ Au-type. <i>Bulletin of Materials Science</i> , 2013, 36, 1247-1253.	0.8	4
50	Interaction of the components in Y ²⁺ Ni ²⁺ Sn ternary system at 770ÅK and 670ÅK. <i>Intermetallics</i> , 2012, 29, 116-122.	1.8	8
51	Features of the conduction mechanisms of the n-HfNiSn semiconductor heavily doped with the Co acceptor impurity. <i>Semiconductors</i> , 2012, 46, 1106-1113.	0.2	5
52	Interaction of Vanadium with Iron and Antimony at 870 and 1070 K. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2588-2595.	1.0	16
53	The systems Sr ²⁺ Zn ²⁺ {Si,Ge}: Phase equilibria and crystal structure of ternary phases. <i>Journal of Solid State Chemistry</i> , 2012, 186, 87-93.	1.4	5
54	Features of conductivity of the intermetallic semiconductor n-ZrNiSn heavily doped with a Bi donor impurity. <i>Semiconductors</i> , 2012, 46, 887-893.	0.2	6

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55	Contribution to the investigation of ternary Lu–Ni–Sn system. Journal of Alloys and Compounds, 2011, 509, 4530-4533.	2.8	9
56	Crystal structure peculiarity and magnetic behavior of R ₂ Cu ₄ ~xSn _{5+x} (R=Gd, Tb, and Dy) compounds. Journal of Alloys and Compounds, 2011, 509, 5206-5210.	2.8	1
57	Peculiarity of component interaction in {Y, Dy}–Mn–Sn ternary systems. Journal of Alloys and Compounds, 2011, 509, 7559-7564.	2.8	4
58	Peculiarities of component interaction in {Gd, Er}–V–Sn Ternary systems at 870 K and crystal structure of RV ₆ Sn ₆ stannides. Journal of Alloys and Compounds, 2011, 509, 8862-8869.	2.8	12
59	Structural and thermoelectric properties of Zr _{1-x} Er _x NiSn solid solutions. Inorganic Materials, 2011, 47, 637-644.	0.2	2
60	Features of a priori heavy doping of the n-TiNiSn intermetallic semiconductor. Semiconductors, 2011, 45, 850-856.	0.2	13
61	Interaction between the components in the {Zr, Hf}-Ag-Sn ternary systems. Chemistry of Metals and Alloys, 2011, 4, 234-242.	0.2	3
62	Features of an intermetallic n-ZrNiSn semiconductor heavily doped with atoms of rare-earth metals. Semiconductors, 2010, 44, 293-302.	0.2	13
63	Crystal, electronic structure and electronic transport properties of the Ti _{1-x} V _x NiSn (x=0–0.10) solid solutions. Journal of Solid State Chemistry, 2010, 183, 3023-3028.	1.4	11
64	LuNi ₅ Sn: A first representative of RNi ₅ Sn stannides with CeCu ₅ Au structure. Journal of Alloys and Compounds, 2010, 493, L12-L14.	2.8	8
65	Crystallographic, magnetic and electrical characteristics of some R ₅ ~xNi ₁₂ Sn _{24+x} intermetallics. Journal of Alloys and Compounds, 2010, 493, 35-40.	2.8	6
66	Pd ₅ Sn ₇ –A novel binary stannide in Pd–Sn system. Journal of Alloys and Compounds, 2010, 496, L7-L9.	2.8	9
67	Interaction of the components in the Gd–Ni–Sn ternary system at 770K. Journal of Alloys and Compounds, 2010, 505, 70-75.	2.8	11
68	Peculiarity of component interaction in Er–Fe–Sn ternary system at 670K and 770K. Journal of Alloys and Compounds, 2010, 507, 67-71.	2.8	6
69	Features of the structural, electrokinetic, and magnetic properties of the heavily doped ZrNiSn semiconductor: Dy acceptor impurity. Semiconductors, 2009, 43, 7-13.	0.2	3
70	Interaction of the components in Dy–Ni–Sn ternary system and crystal structure of new compounds. Journal of Alloys and Compounds, 2009, 485, 275-279.	2.8	10
71	Peculiarity of component interaction in the Gd-Cu-Sn ternary system at 670 and 770 K. Chemistry of Metals and Alloys, 2009, 2, 68-74.	0.2	4
72	Dy ₂ Ni ₇ Sn ₃ : a new member of the CaCu ₅ family of intermetallics. Acta Crystallographica Section C: Crystal Structure Communications, 2008, 64, i45-i46.	0.4	6

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73	Mechanism of local amorphization of a heavily doped $Ti_{1-x}V_xCoSb$ intermetallic semiconductor. <i>Semiconductors</i> , 2008, 42, 753-760.	0.2	5
74	Crystal structure and magnetic properties of $Dy_4Ni_{12}Sn_{25}$ compound. <i>Journal of Alloys and Compounds</i> , 2008, 453, L8-L10.	2.8	6
75	Magnetic properties of RNi_3Sn_2 compounds ($R=Y, Sm, Gd, Tb, Dy$). <i>Journal of Alloys and Compounds</i> , 2008, 454, 5-9.	2.8	4
76	Phase equilibria in $Nd-Cu-Sn$ ternary system. <i>Journal of Alloys and Compounds</i> , 2008, 454, 136-141.	2.8	8
77	Crystal structure of new $RAgSn_2$ ternary compounds ($R=Y, Gd, Tb, Dy, Ho, Er$). <i>Journal of Alloys and Compounds</i> , 2008, 457, 329-331.	2.8	8
78	Electric transport properties of RNi_3Sn_2 compounds ($R=Y, Sm, Gd, Tb, Dy$) and electronic structure of YNi_3Sn_2 and $GdNi_3Sn_2$. <i>Journal of Alloys and Compounds</i> , 2008, 459, 8-12.	2.8	7
79	Crystal structure of new ternary $RE_{1.9}Cu_{9.2}Sn_{2.8}$ compounds ($RE=Y, Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er$). <i>Tj ETQq1</i> 1,0.784314 5 rgBT /Ov	2.8	5
80	Interaction between components in $Hf-Cu-Sb$ ternary system at 770 K. <i>Journal of Alloys and Compounds</i> , 2008, 461, 147-149.	2.8	4
81	Zr_3NiSb_7 : a new antimony-enriched $ZrSb_2$ derivative. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, i47-i47.	0.2	0
82	Electrical transport properties and electronic structure of $RNiSn$ compounds ($R = Y, Gd, Tb, Dy$, and) <i>Tj ETQq0</i> 0 0 rgBT /Overlock 10 Tf 5	0.2	5
83	Interaction of the components in the $Dy-Ag-Sn$ ternary system at 870K. <i>Journal of Alloys and Compounds</i> , 2007, 439, 128-131.	2.8	12
84	Crystal structure of the ternary $R_3Ag_4Sn_4$ stannides ($R=Y, Gd, Tb, Dy, Ho$) with $Gd_3Cu_4Ge_4$ -type structure. <i>Journal of Alloys and Compounds</i> , 2007, 443, 68-70.	2.8	8
85	Features of Structural Descriptions and Electrophysical Properties of $Zr_{1-x}Dy_xNiSn$ and $Zr_{1-x}Fe_xSn$ Solid Solutions. , 2007, , .		0
86	Features of electrical conductivity in the n - $ZrNiSn$ intermetallic semiconductor heavily doped with the In acceptor impurity. <i>Semiconductors</i> , 2007, 41, 1041-1047.	0.2	8
87	Phase Equilibria in the $Dy-Cu-Sn$ Ternary System.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
88	Phase equilibria in the $Dy-Cu-Sn$ ternary system. <i>Journal of Alloys and Compounds</i> , 2005, 395, 113-116.	2.8	10
89	Structure and properties of MgB_2 bulks: <i>ab-initio</i> simulations compared to experiment. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 756, 012020.	0.3	2