

V V Romaka

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81
papers

780
citations

12
h-index

24
g-index

115
ext. papers

879
ext. citations

3.3
avg, IF

3.89
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 81 | Thermoelectric high ZT half-Heusler alloys $Ti_{1-x}Zr_xHf_yNiSn$ ($0 \leq x \leq 1$; $0 \leq y \leq 1$). <i>Acta Materialia</i> , 2016 , 104, 210-222 | 8.4 | 143 |
| 80 | (V,Nb)-doped half Heusler alloys based on $\{Ti,Zr,Hf\}NiSn$ with high ZT. <i>Acta Materialia</i> , 2017 , 131, 336-348. | 8.4 | 97 |
| 79 | Phase equilibria, formation, crystal and electronic structure of ternary compounds in $TiNiSn$ and $TiNiSb$ ternary systems. <i>Journal of Solid State Chemistry</i> , 2013 , 197, 103-112 | 3.3 | 46 |
| 78 | Peculiarities of structural disorder in Zr- and Hf-containing Heusler and half-Heusler stannides. <i>Intermetallics</i> , 2013 , 35, 45-52 | 3.5 | 39 |
| 77 | On the constitution and thermodynamic modelling of the system $TiNiSn$. <i>RSC Advances</i> , 2015 , 5, 92270-92291 | 3.7 | 37 |
| 76 | The half Heusler system $TiFeSb-TiCoSb$ with Sb/Sn substitution: phase relations, crystal structures and thermoelectric properties. <i>Dalton Transactions</i> , 2018 , 47, 879-897 | 4.3 | 26 |
| 75 | High-ZT half-Heusler thermoelectrics, $Ti_{0.5}Zr_{0.5}NiSn$ and $Ti_{0.5}Zr_{0.5}NiSn_{0.98}Sb_{0.02}$: Physical properties at low temperatures. <i>Acta Materialia</i> , 2019 , 166, 466-483 | 8.4 | 23 |
| 74 | Peculiarities of thermoelectric half-Heusler phase formation in $ZrCoSb$ ternary system. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 448-454 | 5.7 | 20 |
| 73 | On the constitution and thermodynamic modelling of the system Zr-Ni-Sn. <i>Journal of Alloys and Compounds</i> , 2018 , 742, 1058-1082 | 5.7 | 17 |
| 72 | Peculiarities of thermoelectric half-Heusler phase formation in Gd-Ni-Sb and Lu-Ni-Sb ternary systems. <i>Journal of Solid State Chemistry</i> , 2016 , 239, 145-152 | 3.3 | 17 |
| 71 | Features of a priori heavy doping of the n- $TiNiSn$ intermetallic semiconductor. <i>Semiconductors</i> , 2011 , 45, 850-856 | 0.7 | 13 |
| 70 | Features of an intermetallic n- $ZrNiSn$ semiconductor heavily doped with atoms of rare-earth metals. <i>Semiconductors</i> , 2010 , 44, 293-302 | 0.7 | 13 |
| 69 | 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 | 0.7 | 12 |
| 68 | Interaction of Vanadium with Iron and Antimony at 870 and 1070 K. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 2588-2595 | 2.3 | 11 |
| 67 | Interaction of the components in the $GdNiSn$ ternary system at 770K. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 70-75 | 5.7 | 10 |
| 66 | Interaction of the components in the $DyAgSn$ ternary system at 870K. <i>Journal of Alloys and Compounds</i> , 2007 , 439, 128-131 | 5.7 | 10 |
| 65 | Interaction of the components in $DyNiSn$ ternary system and crystal structure of new compounds. <i>Journal of Alloys and Compounds</i> , 2009 , 485, 275-279 | 5.7 | 9 |

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| 64 | Crystal, electronic structure and electronic transport properties of the $Ti_{1-x}V_xNiSn$ ($0 \leq x \leq 1.0$) solid solutions. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 3023-3028 | 3-3 | 9 |
| 63 | Structure and Properties of MgB_2 Bulks, Thin Films, and Wires. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-5 | 1.8 | 8 |
| 62 | The system $BaZnSn$ at 500 °C: Phase equilibria, crystal and electronic structure of ternary phases. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 287-298 | 5-7 | 8 |
| 61 | Contribution to the investigation of ternary $LuNiSn$ system. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4530-4533 | 5-7 | 8 |
| 60 | Phase equilibria in $NdNiSn$ ternary system. <i>Journal of Alloys and Compounds</i> , 2008 , 454, 136-141 | 5-7 | 8 |
| 59 | Phase equilibria in the $DyCuSn$ ternary system. <i>Journal of Alloys and Compounds</i> , 2005 , 395, 113-116 | 5-7 | 8 |
| 58 | Determination of structural disorder in Heusler-type phases. <i>Computational Materials Science</i> , 2020 , 172, 109307 | 3-2 | 8 |
| 57 | $LuNi_5Sn$: A first representative of RNi_5Sn stannides with $CeCu_5Au$ structure. <i>Journal of Alloys and Compounds</i> , 2010 , 493, L12-L14 | 5-7 | 7 |
| 56 | 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 | 5-7 | 7 |
| 55 | Features of electrical conductivity in the n - $ZrNiSn$ intermetallic semiconductor heavily doped with the In acceptor impurity. <i>Semiconductors</i> , 2007 , 41, 1041-1047 | 0-7 | 7 |
| 54 | The $VCoSb$ ternary system at 773K: Crystal, band structure, and physical properties. <i>Journal of Alloys and Compounds</i> , 2014 , 589, 200-206 | 5-7 | 6 |
| 53 | Peculiarity of component interaction in $ZrMn\{Sn, Sb\}$ ternary systems. <i>Journal of Alloys and Compounds</i> , 2014 , 611, 401-409 | 5-7 | 6 |
| 52 | Interaction of the components in $YNiSn$ ternary system at 770K and 670K. <i>Intermetallics</i> , 2012 , 29, 116-122 | 3-5 | 6 |
| 51 | 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 | 5-7 | 6 |
| 50 | 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 | 5-7 | 6 |
| 49 | Thermoelectric Half-Heusler compounds $TaFeSb$ and $Ta_{1-x}Ti_xFeSb$ ($0 \leq x \leq 1.1$): Formation and physical properties. <i>Intermetallics</i> , 2019 , 111, 106468 | 3-5 | 5 |
| 48 | Experimental and DFT study of the $VCoSb$ ternary system. <i>Journal of Alloys and Compounds</i> , 2018 , 739, 771-779 | 5-7 | 5 |
| 47 | The systems $SrZn\{Si, Ge\}$: Phase equilibria and crystal structure of ternary phases. <i>Journal of Solid State Chemistry</i> , 2012 , 186, 87-93 | 3-3 | 5 |

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| 46 | Features of conductivity of the intermetallic semiconductor n-ZrNiSn heavily doped with a Bi donor impurity. <i>Semiconductors</i> , 2012 , 46, 887-893 | 0.7 | 5 |
| 45 | Features of the conduction mechanisms of the n-HfNiSn semiconductor heavily doped with the Co acceptor impurity. <i>Semiconductors</i> , 2012 , 46, 1106-1113 | 0.7 | 5 |
| 44 | Pd ₅ Sn ₇ – a novel binary stannide in PdSn system. <i>Journal of Alloys and Compounds</i> , 2010 , 496, L7-L9 | 5.7 | 5 |
| 43 | Peculiarity of component interaction in ErBeSn ternary system at 670K and 770K. <i>Journal of Alloys and Compounds</i> , 2010 , 507, 67-71 | 5.7 | 5 |
| 42 | Crystal structure and magnetic properties of Dy ₄ Ni ₁₂ Sn ₂₅ compound. <i>Journal of Alloys and Compounds</i> , 2008 , 453, L8-L10 | 5.7 | 5 |
| 41 | Dy ₂ Ni ₇ Sn ₃ : a new member of the CaCu ₅ family of intermetallics. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2008 , 64, i45-6 | | 5 |
| 40 | Features of the band structure and conduction mechanisms of n-HfNiSn semiconductor heavily Lu-doped. <i>Semiconductors</i> , 2015 , 49, 290-297 | 0.7 | 4 |
| 39 | Features of conduction mechanisms in n-HfNiSn semiconductor heavily doped with a Rh acceptor impurity. <i>Semiconductors</i> , 2013 , 47, 1145-1152 | 0.7 | 4 |
| 38 | Formation and stability of the clathrate-I structure in the systems Sr ₃ (Ni,Cu,Zn)Ge based on experimental and DFT studies. <i>Intermetallics</i> , 2014 , 46, 185-189 | 3.5 | 4 |
| 37 | 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 | 1.7 | 4 |
| 36 | Crystallographic, magnetic and electrical characteristics of some R ₅ Ni ₁₂ Sn _{24+x} intermetallics. <i>Journal of Alloys and Compounds</i> , 2010 , 493, 35-40 | 5.7 | 4 |
| 35 | Mechanism of local amorphization of a heavily doped Ti _{1-x} V _x CoSb intermetallic semiconductor. <i>Semiconductors</i> , 2008 , 42, 753-760 | 0.7 | 4 |
| 34 | Electrical transport properties and electronic structure of RNiSn compounds (R = Y, Gd, Tb, Dy, and Lu). <i>Chemistry of Metals and Alloys</i> , 2008 , 1, 298-302 | 1 | 4 |
| 33 | Features of conductivity mechanisms in heavily doped compensated V _{1-x} Ti _x FeSb Semiconductor. <i>Semiconductors</i> , 2016 , 50, 860-868 | 0.7 | 4 |
| 32 | MgB ₂ Wires and Bulks With High Superconducting Performance. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5 | 1.8 | 3 |
| 31 | Phase relationships in the {Ho, Er}NiSn ternary systems at 673K and crystal structure of new ternary compounds. <i>Journal of Alloys and Compounds</i> , 2015 , 631, 288-297 | 5.7 | 3 |
| 30 | Structure and Properties of MgB ₂ : Effect of Ti-O and TiC Additions. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5 | 1.8 | 3 |
| 29 | Peculiarity of component interaction in {Y, Dy}MnSn ternary systems. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7559-7564 | 5.7 | 3 |

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| 28 | Features of the structural, electrokinetic, and magnetic properties of the heavily doped ZrNiSn semiconductor: Dy acceptor impurity. <i>Semiconductors</i> , 2009 , 43, 7-13 | 0.7 | 3 |
| 27 | Magnetic properties of RNi ₃ Sn ₂ compounds (R=Y, Sm, Gd, Tb, Dy). <i>Journal of Alloys and Compounds</i> , 2008 , 454, 5-9 | 5.7 | 3 |
| 26 | 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, Tm, Yb, and Lu). <i>Journal of Alloys and Compounds</i> , 2008 , 460, 283-288 | 5.7 | 3 |
| 25 | Interaction between components in HfCu ₃ Sn ternary system at 770K. <i>Journal of Alloys and Compounds</i> , 2008 , 461, 147-149 | 5.7 | 3 |
| 24 | Peculiarity of component interaction in the Gd-Cu-Sn ternary system at 670 and 770 K. <i>Chemistry of Metals and Alloys</i> , 2009 , 2, 68-74 | 1 | 3 |
| 23 | Crystallographic, magnetic and electrical characteristics of R ₃ Ni ₈ Sn ₄ compounds (R = Y, Nd, Sm, Gd, and Tb). <i>Journal of Alloys and Compounds</i> , 2017 , 701, 358-365 | 5.7 | 2 |
| 22 | The Sr-poor part of the Sr(Pd,Pt)(Si,Ge) systems: Phase equilibria and crystal structure of ternary phases. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 656-665 | 5.7 | 2 |
| 21 | Structure and properties of MgB ₂ bulks: ab-initio simulations compared to experiment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 756, 012020 | 0.4 | 2 |
| 20 | Features of the band structure and conduction mechanisms in the n-HfNiSn semiconductor heavily doped with Ru. <i>Semiconductors</i> , 2014 , 48, 1545-1551 | 0.7 | 2 |
| 19 | Peculiarities of component interaction in {Gd, Er} ₃ Sn Ternary systems at 870K and crystal structure of RV ₆ Sn ₆ stannides. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 8862-8869 | 5.7 | 2 |
| 18 | Structural and thermoelectric properties of Zr _{1-x} Er _x NiSn solid solutions. <i>Inorganic Materials</i> , 2011 , 47, 637-644 | 0.9 | 2 |
| 17 | Interaction between the components in the {Zr, Hf}-Ag-Sn ternary systems. <i>Chemistry of Metals and Alloys</i> , 2011 , 4, 234-242 | 1 | 2 |
| 16 | Contribution to the investigation of the YCu ₃ Sn ternary system. <i>Chemistry of Metals and Alloys</i> , 2014 , 7, 132-138 | 1 | 2 |
| 15 | Experimental and theoretical investigation of the YNi ₃ Sn and TmNi ₃ Sn systems. <i>Journal of Alloys and Compounds</i> , 2021 , 855, 157334 | 5.7 | 2 |
| 14 | Features of the band structure and conduction mechanisms of n-HfNiSn heavily doped with Y. <i>Semiconductors</i> , 2017 , 51, 139-145 | 0.7 | 1 |
| 13 | Structural defect generation and band-structure features in the HfNi _{1-x} Co _x Sn semiconductor. <i>Semiconductors</i> , 2015 , 49, 985-991 | 0.7 | 1 |
| 12 | Preparation and Properties of MgB ₂ Thin Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-7 | 1.8 | 1 |
| 11 | Synthesis, electrical transport, magnetic properties and electronic structure of Ti _{1-x} Sc _x CoSb semiconducting solid solution. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 840-846 | 5.7 | 1 |

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| 10 | Prediction of the Thermoelectric Properties of Half-Heusler Phases from the Density Functional Theory 2017 , 286-323 | | 1 |
| 9 | Correlations Between Superconducting Characteristics and Structure of MgB ₂ -Based Materials, ab-Initio Modeling. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-7 | 1.8 | 1 |
| 8 | Crystal structure and magnetic properties of TmV _{0.17} Ge ₂ and LuV _{0.15} Ge ₂ ternary germanides. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 137, 109205 | 3.9 | 1 |
| 7 | Novel refractory phase, Ta ₇ Si ₂ (Si(x)B(1-x)) ₂ . <i>Inorganic Chemistry</i> , 2013 , 52, 11295-301 | 5.1 | 0 |
| 6 | Crystal structure peculiarity and magnetic behavior of R ₂ Cu ₄ Sn _{5+x} (R=Gd, Tb, and Dy) compounds. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 5206-5210 | 5.7 | 0 |
| 5 | Manufacturing, Structure, Properties of MgB ₂ -Based Materials. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 3115-3120 | 1.5 | |
| 4 | Zr ₃ NiSb ₇ : a new anti-mony-enriched ZrSb ₂ derivative. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008 , 64, i47 | | |
| 3 | Physical properties of {Ti,Zr,Hf}NiSn compounds.. <i>Dalton Transactions</i> , 2021 , 51, 361-374 | 4.3 | |
| 2 | Mechanism of Defect Formation in Zr _{1-x} V _x NiSn Thermoelectric Material. <i>Ukrainian Journal of Physics</i> , 2021 , 66, 333 | 0.4 | |
| 1 | On the constitution and structural characterization of the ternary system Sm-Ni-Sn. <i>Journal of Solid State Chemistry</i> , 2022 , 123213 | 3.3 | |