

Yaroslav Kalychak

List of Publications by Year in descending order

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129
papers

1,464
citations

361045

20
h-index

454577

30
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145
all docs

145
docs citations

145
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	Short hydrogen-hydrogen separations in novel intermetallic hydrides, RE ₃ Ni ₃ In ₃ D ₄ (RE=La, Ce and Nd). Journal of Alloys and Compounds, 2002, 330-332, 132-140.	2.8	90
2	New Indides EuAuIn ₂ , EuPdIn ₄ , GdRhIn ₂ , YbRhIn ₄ , and YbPdIn ₄ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2000, 55, 834-840.	0.3	59
3	Rare earth-transition metal indides. Fundamental Theories of Physics, 2004, 34, 1-133.	0.1	58
4	Composition and crystal structure of rare-earths-Co-In compounds. Journal of Alloys and Compounds, 1999, 291, 80-88.	2.8	45
5	A New[Ni ₇] Cluster in LaNi ₇ In ₆ and Distorted bcc Indium Cubes in LaNiIn ₄ . Chemistry - A European Journal, 2001, 7, 5343-5349.	1.7	39
6	New rare earth metal-rich indides RE ₁₄ Ni ₃ In ₃ (RE=Sc, Y, Gd-Tm, Lu)-synthesis and crystal chemistry. Journal of Solid State Chemistry, 2005, 178, 2724-2733.	1.4	38
7	Hydrides of the RNiIn (R=La, Ce, Nd) intermetallic compounds: crystallographic characterisation and thermal stability. Journal of Alloys and Compounds, 1999, 284, 256-261.	2.8	34
8	The Indium-Rich Intermetallics YbCoIn ₅ , YbRhIn ₅ , and YbPtIn ₄ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2003, 629, 1157-1161.	0.6	33
9	Peculiarities of the composition and structure of the compounds of the rare-earth-Ni-In systems. Journal of Alloys and Compounds, 1997, 262-263, 341-345.	2.8	32
10	A Single Crystal Study of RE ₁₄ Co ₃ In ₃ (RE = Y, Tb, Dy, Ho, Er). Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2006, 61, 23-28.	0.3	31
11	Crystal structure of R ₂ Ni ₂ Pb (R=Y, Sm, Gd, Tb, Dy, Ho, Er, Tm, Lu) compounds. Journal of Alloys and Compounds, 2000, 311, 228-233.	2.8	29
12	Magnetocaloric Behavior in Ternary Europium Indides EuT ₅ In: Probing the Design Capability of First-Principles-Based Methods on the Multifaceted Magnetic Materials. Chemistry of Materials, 2017, 29, 2599-2614.	3.2	29
13	Indides LnNiIn ₂ (Ln=Pr, Nd, Sm) and Ferromagnetic PrRhIn. Journal of Solid State Chemistry, 2000, 152, 560-567.	1.4	27
14	Synthesis, Structure, and Magnetic Properties of CeNiIn ₂ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2002, 57, 791-797.	0.3	26
15	Fe ₂ Pairs as Structural Units in the Indides RE ₁₂ Fe ₂ In ₃ (RE = Ho, Er, Tm, Lu). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 724-728.	0.6	26
16	Crystal structure of the RE ₁₁ Ni ₄ In ₉ compounds (RE=La, Ce, Pr, Nd, Sm, Gd, Tb and Y). Intermetallics, 2010, 18, 929-932.	1.8	26
17	Nd ₁₁ Pd ₄ In ₉ compound - A new member of the homological series based on AlB ₂ and CsCl types. Intermetallics, 2008, 16, 625-628.	1.8	23
18	Crystal structure and properties of YbAg ₂ In ₄ and CaAg ₂ In ₄ compounds. Journal of Alloys and Compounds, 1998, 266, 17-21.	2.8	22

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37	$\langle i \rangle \text{RE} \langle /i \rangle \text{Ni}_{9-2}$ ($\langle i \rangle \text{RE} \langle /i \rangle = \text{Rare Earth Metal}$): Crystal Chemistry, Hydrogen Absorption, and Magnetic Properties. European Journal of Inorganic Chemistry, 2014, 2631-2642.	1.0	14
38	Magnetisation and neutron diffraction studies of $\text{HoFe}_{12-x}\text{Tax}$ ($0.5 \leq x \leq 0.7$, $X = \text{H, C}$). Journal of Alloys and Compounds, 1999, 285, 56-63.	2.8	13
39	Magnetic, thermal and electronic properties of $\text{Ce}_{11}\text{Ni}_4\text{In}_9$ and CeNi_9In_2 . Journal of Alloys and Compounds, 2014, 589, 622-627.	2.8	13
40	Crystal structure and magnetic properties of $\text{Dy}_{11}\text{Ni}_4\text{In}_9$. Journal of Alloys and Compounds, 2014, 587, 573-577.	2.8	13
41	Magnetic properties and specific heat of $\text{R}_2\text{Ni}_2\text{In}$ ($\text{R} = \text{Gd-Tm}$) compounds. Journal of Magnetism and Magnetic Materials, 2015, 387, 83-89.	1.0	13
42	Crystal structure of $\text{R}_{12}\text{Ni}_6\text{Pb}$ ($\text{R} = \text{Y, La, Pr, Nd, Sm, Gd, Tb, Dy, Ho}$) and $\text{R}_{12}\text{Co}_6\text{Pb}$ ($\text{R} = \text{Y, La, Pr, Nd, Sm, Gd}$) compounds. Journal of Alloys and Compounds, 2000, 311, 238-240.	2.8	12
43	Crystal structure of the new ternary indide CePt_2In_2 and the isostructural compounds RPt_2In_2 ($\text{R} = \text{La, Tm}$). Journal of Alloys and Compounds, 2014, 587, 573-577.	2.8	12
44	Structure and magnetism of new $\text{R}_2\text{Cu}_2\text{In}$ hydrides ($\text{R} = \text{Ce, Gd}$). Chemistry of Metals and Alloys, 2008, 1, 46-49.	0.2	12
45	Rare-earth rich intermetallics RE_8CoIn_3 ($\text{RE} = \text{Y, Dy, Tm, Lu}$). Intermetallics, 2013, 38, 14-18.	1.8	11
46	The crystal structure of $\text{Sc}_5\text{Co}_2\text{In}_4$. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2015, 70, 283-287.	0.3	11
47	On the crystal chemistry of $\text{Tm}_{2.896(4)}\text{Ni}_{1.81(1)}\text{In}_{0.78(2)}$, $\text{Tm}_{4.83(3)}\text{Ni}_2\text{In}_{1.17(3)}$, and $\text{Er}_5\text{Ni}_2\text{In}$. Journal of Solid State Chemistry, 2005, 178, 1247-1253.	1.4	10
48	$\text{EuNi}_5\text{InH}_{1.5-x}$ ($x = 0-1.5$): hydrogen induced structural and magnetic transitions. Journal of Materials Chemistry C, 2017, 5, 2994-3006.	2.7	10
49	$\text{Ca}_3\text{Ni}_8\text{In}_4$ - An Ordered Noncentrosymmetric Variant of the BaLi_4 Type. Journal of Solid State Chemistry, 2001, 160, 415-420.	1.4	9
50	Ternary system Er-Ni-In at $T = 870\text{K}$. Journal of Solid State Chemistry, 2011, 184, 2707-2712.	1.4	9
51	Orthorhombic $\text{La}_2\text{Ni}_2\text{In}$ form - A new intergrowth CsCl and AlB_2 type slabs. Intermetallics, 2012, 24, 30-32.	1.8	9
52	Phase equilibria in the Dy-Fe-In system and crystal structure of $\text{Dy}_6\text{Fe}_{1.72}\text{In}$. Intermetallics, 2013, 37, 22-26.	1.8	9
53	The ternary system Tm-Ni-In at 870 K. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2015, 70, 665-670.	0.3	9
54	Solid phase extractive preconcentration of silver from aqueous samples and antimicrobial properties of the clinoptilolite-Ag composite. Adsorption Science and Technology, 2017, 35, 602-611.	1.5	9

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55	Structural Chemistry and Magnetic Properties of R_2Ni_2-xIn ($R=Gd-Er$, $x=0.22$ or 0.3) Compounds. Acta Physica Polonica A, 2012, 121, 678-681.	0.2	9
56	Crystal structure, magnetic and electrical properties of $ZrNi_2In$ and $ZrCu_2In$. Journal of Alloys and Compounds, 1999, 292, 1-3.	2.8	8
57	On the Solid Solutions $Eu_{1-x}Pt_2In_x$, $Gd_{1-x}Pt_2In_x$, and $Tm_{1-x}Ni_2In_x$. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2005, 60, 393-397.	0.3	8
58	Crystal structure of $Sc_3Co_{1.64}In_4$ and $Sc_{10}Co_9In_{20}$ from single-crystal data. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2019, 74, 289-295.	0.3	8
59	A novel solid-phase extraction method for preconcentration of silver and antimicrobial properties of the Na-clinoptilolite-Ag composite. Materials Today: Proceedings, 2021, 35, 548-551.	0.9	8
60	The Solid Solution $TmNi_{1-x}Yn_{1+x}$. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2004, 59, 893-897.	0.3	7
61	Phase equilibria in the Er-Co-In system and crystal structure of Er_8CoIn_3 compound. Open Chemistry, 2013, 11, 604-609.	1.0	7
62	The Dy-Ni-In system at 870ÅK: Isothermal section, solid solutions, crystal structures. Journal of Alloys and Compounds, 2017, 704, 717-723.	2.8	7
63	Crystal structure and magnetic properties of the novel compound $Sc_5Pd_2In_4$. Journal of Alloys and Compounds, 2018, 750, 92-95.	2.8	7
64	Scandium-rich ternary coloring variants of the cubic Ag_7+xMg_{26-x} type. Monatshefte Für Chemie, 2020, 151, 1673-1679.	0.9	7
65	Crystal structure of $Ce_3Ge_{1.11}In_{0.89}$ and related compounds. Journal of Alloys and Compounds, 2000, 312, 154-157.	2.8	6
66	Study of exchange and anisotropy parameters versus insertion of H and C in the $RFe_{11.35}Nb_{0.65}$ compounds ($R=Ho, Lu$). Journal of Alloys and Compounds, 2000, 296, 293-302.	2.8	6
67	Magnetic and thermal properties of $Tm_5Ni_2In_4$. Intermetallics, 2013, 43, 99-102.	1.8	6
68	Neutron Diffraction Studies of $Tb_2Ni_{2-x}In$ Intermetallic Compounds. Acta Physica Polonica A, 2013, 124, 994-997.	0.2	6
69	Electronic structure and transport properties of $CeNi_9In_2$. Solid State Communications, 2015, 206, 46-50.	0.9	6
70	Sorption-luminescence method for determination of europium using acid-modified clinoptilolite. Applied Nanoscience (Switzerland), 2019, 9, 1145-1153.	1.6	6
71	Crystal structure and magnetic properties of the novel compound Sc_5CuIn_3 . Journal of Alloys and Compounds, 2020, 815, 152660.	2.8	6
72	$YrIn$ with $ZrNiAl$ -type structure. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 1075-1077.	0.3	6

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73	Magnetic and electrical properties of $\text{RCu}_{5.1}\text{In}_{6.9}$ compounds. Journal of Alloys and Compounds, 1997, 250, 642-645.	2.8	5
74	The crystal structure of $\text{R}_{10}\text{Co}_9\text{In}_{20}$ (R=Er, Tm, Lu) compounds. Journal of Alloys and Compounds, 1998, 280, 199-203.	2.8	5
75	Structure, Magnetic, and Electrical Properties of the LnAg_6In_6 Intermetallics (Ln=La, Ce, Pr, and Nd). Journal of Solid State Chemistry, 1999, 145, 216-219.	1.4	5
76	$\text{La}_{1.18}\text{Rh}_3\text{In}_2$ an incommensurate composite structure. Solid State Sciences, 2002, 4, 93-102.	1.5	5
77	New ternary intermetallics of rare-earth metals and manganese with AlB_2 -type structure. Journal of Alloys and Compounds, 2005, 397, 161-164.	2.8	5
78	Electronic structure and magnetic properties of RCuIn (R=La, Ce, Pr, Nd and Lu) compounds. Journal of Alloys and Compounds, 2007, 442, 279-281.	2.8	5
79	Crystal structure and magnetic properties of $\text{YbZn}_{8.5}\text{Al}_{2.5}$ compound. Intermetallics, 2010, 18, 569-573.	1.8	5
80	Crystal structure and magnetic behavior of novel R_2PdIn_8 (R=Pr, Nd, and Sm) compounds. Journal of Alloys and Compounds, 2011, 509, 3208-3210.	2.8	5
81	Novel nanocomposite materials of silver-exchanged clinoptilolite with pre-concentration of $\text{Ag}(\text{NH}_3)_2^+$ in water possess enhanced anticancer action. Applied Nanoscience (Switzerland), 2020, 10, 4869-4878.	1.6	5
82	Superstructure formation in the solid solution $\text{Sc}_{3-x}\text{Pt}_{3x}\text{In}_3$ ($x = 0.0$ to 0.4). Journal of Alloys and Compounds, 2020, 827, 156117.	0.4	5
83	Superstructure formation in $\text{Sc}_5\text{Cu}_2\text{In}_4$. Zeitschrift Fur Kristallographie - Crystalline Materials, 2020, 235, 417-422.	0.4	5
84	The scandium-rich intermetallic $\text{Sc}_{50}\text{Pt}_{13.47}\text{In}_{2.53}$. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 715-720.	0.3	5
85	Crystal structure of zirconium nickel indium ($2/1/5$), Zr_2NiIn_5 . Zeitschrift Fur Kristallographie - Crystalline Materials, 1993, 205, 335-336.	0.4	4
86	The crystal structure of $\text{Tm}_6\text{Co}_{26}\text{In}_{14}$ ($x=7.42$) compound. Journal of Alloys and Compounds, 1999, 284, 228-231.	2.8	4
87	Copper-indium ordering in RECu_6In_6 (RE=Y, Ce, Pr, Nd, Gd, Tb, Dy). Journal of Solid State Chemistry, 2007, 180, 2534-2540.	1.4	4
88	Crystal structure of $\text{RE}_{12}\text{Fe}_{2+x}\text{Pb}_3$ (RE=Tm, Lu) compounds. Journal of Alloys and Compounds, 2010, 502, 300-303.	2.8	4
89	Tm_4IrIn and Lu_4PtIn intermetallics with In_4 tetrahedra embedded in RE_{22} polyhedra. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2022, 77, 347-352.	0.3	4
90	Lutetium-rich phases with a coloring variant of the Y_3Rh_2 type structure. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2022, 648, .	0.6	4

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91	Peierls distortion of the cobalt chain in the low-temperature structure of CoIn_2 . Zeitschrift Fur Kristallographie - Crystalline Materials, 2022, 237, 239-248.	0.4	4
92	Crystal structure of terbium cobalt indium (1/2/1), TbCo_2In . Zeitschrift Fur Kristallographie - Crystalline Materials, 1993, 205, 333-334.	0.4	3
93	Crystal structure of $\text{Zr}_9\text{Co}_7\text{In}_{14}$. Journal of Alloys and Compounds, 1996, 240, 253-255.	2.8	3
94	Electrical and magnetic properties of CeNi_4In with Ce in saturated valence state. Physics of the Solid State, 1998, 40, 5-7.	0.2	3
95	Structure and magnetic properties of RE_2CuIn_3 (RE=Ce, Pr, Nd, Sm and Gd). Journal of Solid State Chemistry, 2008, 181, 3223-3228.	1.4	3
96	A new rhombohedral modification of EuNi_5In . Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, i42-i44.	0.4	3
97	SmZn_{11} -type derivative compound in the Yb-Zn-Al system: Crystal structure and magnetic properties. Journal of Solid State Chemistry, 2011, 184, 1715-1718.	1.4	3
98	Synthesis and crystal structure of the new indide $\text{La}_8\text{Co}_2\text{In}_3$. Solid State Sciences, 2014, 35, 45-49.	1.5	3
99	Nature of magnetic properties in $\text{R}_3\text{Co}_{1.87}\text{In}_4$ where R = Ho, Er and Tm. Phase Transitions, 2018, 91, 111-117.	0.6	3
100	Phase equilibrium in the Gd-Ni-In system at 870 K. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2019, 74, 613-618.	0.3	3
101	Magnetic Properties of $\text{Dy}_{11}\text{Si}_4\text{In}_6$. Acta Physica Polonica A, 2012, 121, 1118-1120.	0.2	3
102	$\text{Sc}_{14}\text{Co}_{3.10}\text{In}_{2.59}$ – the representative of the $\text{Lu}_{14}\text{Co}_3\text{In}_3$ type with the smallest rare earth element. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 799-803.	0.3	3
103	Crystal structure of europium nickel diindide, EuNiIn_2 . Zeitschrift Fur Kristallographie - New Crystal Structures, 1997, 212, 292.	0.1	2
104	Magnetic and transport properties of $\text{R}(\text{Mn}, \text{In})_2$ (R=rare-earth metals) with AlB_2 -structure type. Physica B: Condensed Matter, 2007, 393, 321-327.	1.3	2
105	HoZn_5Al_3 : rare-earth magnetism in a new structure type. International Journal of Materials Research, 2009, 100, 1203-1205.	0.1	2
106	RNi_9In_2 (R= Pr, Nd, Eu) Compounds and their Hydrides. Solid State Phenomena, 0, 194, 45-49.	0.3	2
107	The Crystal Structure of GdZn_3 . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2013, 68, 1265-1268.	0.3	2
108	Crystal structure and magnetic properties of $\text{RE}(\text{Mn}, \text{In})_2$ (RE=Ho, Er, Tm). Intermetallics, 2014, 46, 18-21.	1.8	2

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109	Magnetic and thermal properties of RCu_9In_2 (R=La, Ce, Pr, Nd, Sm and Eu) compounds. Journal of Magnetism and Magnetic Materials, 2016, 410, 156-164.	1.0	2
110	Single-crystal investigation of the compound $\text{SmNi}_5.2\text{Mn}_6.8$. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 303-307.	0.3	2
111	Laves phases forming in the system ScCo_2 - InCo_2 - TaCo_2 . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, .	0.3	2
112	Intermetallic phases in the ScIrIn system – synthesis and structure of $\text{Sc}_{1.024}\text{Ir}_2\text{In}_{0.976}$ and $\text{Sc}_3\text{Ir}_{1.467}\text{In}_4$. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, 76, 361-367.	0.3	2
113	$\text{Lu}_2\text{0Ir}_5\text{In}_3$ and $\text{Lu}_2\text{0Pt}_5\text{In}_3$ – superstructures of the Al_5Co_2 type by coloring and distortion. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	0.6	2
114	Crystal structure of a new ternary indide, $\text{Zr}_4\text{Co}_2\text{In}_5$. Journal of Alloys and Compounds, 1996, 244, 190-193.	2.8	1
115	The crystal structure of the compound $\text{Hf}_9\text{Co}_7\text{In}_{14}$ ($x=0.86$). Journal of Alloys and Compounds, 1999, 284, 194-197.	2.8	1
116	Phase diagrams of the TbAgIn and DyAgIn systems at 870K. Journal of Solid State Chemistry, 2012, 192, 360-365.	1.4	1
117	The crystal structure of $\text{Ho}_4\text{Ni}_{11}\text{In}_{20}$. Open Chemistry, 2012, 10, 354-359.	1.0	1
118	The crystal structure of $\text{Sm}_4\text{Ni}_{11}\text{In}_{20}$ and its relation to other indium-rich compounds. Open Chemistry, 2014, 12, 227-232.	1.0	1
119	Scandium plumbides $\text{Sc}_2\text{Ni}_2\text{Pb}$, $\text{ScNi}_{1.34}\text{Pb}$ and ScCuPb . Journal of Alloys and Compounds, 2018, 769, 788-793.	2.8	1
120	Sorption-luminescence method for determination of cerium using Transcarpathian clinoptilolite. Applied Nanoscience (Switzerland), 2022, 12, 543-551.	1.6	1
121	Substitution Study on the Coherent Kondo State in CeCu_5In . Acta Physica Polonica A, 2000, 97, 189-192.	0.2	1
122	Synthesis and Structure of $\text{Yb}_2\text{Pd}_6\text{In}_{13}$. ChemInform, 2003, 34, no.	0.1	0
123	Ternary Indides $\text{Ln}_4\text{Pd}_{10}\text{In}_{21}$ (Ln: La, Ce, Pr, Nd, Sm) – Synthesis, Structure, and Physical Properties.. ChemInform, 2003, 34, no.	0.1	0
124	The Indium-Rich Intermetallics YbCoIn_5 , YbRhIn_5 , and YbPtIn_4 . ChemInform, 2003, 34, no.	0.1	0
125	Crystal structure and electronic properties of $\text{Gd}_3\text{Zn}_4.7\text{Al}_6.3$. Physica B: Condensed Matter, 2009, 404, 1661-1663.	1.3	0
126	Co_4 clusters in the high-temperature phase $\text{La}_{18}\text{Co}_{28}\text{In}_3$. Zeitschrift Fur Kristallographie - Crystalline Materials, 2013, 228, .	0.4	0

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127	Influence of Co Doping on Crystal and Magnetic Properties of $Gd_{2}Cu_{2}In$. Acta Physica Polonica A, 2012, 122, 216-219.	0.2	0
128	Single-crystal structure determination of $LaNi_{5}In$ and $LaNi_{9}In_{2}$. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 553-557.	0.3	0
129	Scandium-copper indides deriving from the $ZrNiAl$ and $MnCu_{2}Al$ type structures. Zeitschrift Fur Kristallographie - Crystalline Materials, 2022, 237, 61-68.	0.4	0