

# Mahammad B Babanly

## List of Publications by Year in descending order

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187  
papers

3,318  
citations

236612

25  
h-index

174990

52  
g-index

188  
all docs

188  
docs citations

188  
times ranked

3114  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction and observation of an antiferromagnetic topological insulator. Nature, 2019, 576, 416-422.	13.7	701
2	Atom-specific spin mapping and buried topological states in a homologous series of topological insulators. Nature Communications, 2012, 3, 635.	5.8	192
3	Tunable 3D/2D magnetism in the (MnBi <sub>2</sub> Te <sub>4</sub> )(Bi <sub>2</sub> Te <sub>3</sub> ) <sub>m</sub> topological insulators family. Npj Quantum Materials, 2020, 5, .	1.8	138
4	Disentanglement of Surface and Bulk Rashba Spin Splittings in Noncentrosymmetric BiTeI. Physical Review Letters, 2012, 109, 116403.	2.9	137
5	Plasma-Wave Terahertz Detection Mediated by Topological Insulators Surface States. Nano Letters, 2016, 16, 80-87.	4.5	131
6	Novel ternary layered manganese bismuth tellurides of the MnTe-Bi <sub>2</sub> Te <sub>3</sub> system: Synthesis and crystal structure. Journal of Alloys and Compounds, 2019, 789, 443-450.	2.8	130
7	Interplay of Surface and Dirac Plasmons in Topological Insulators: The Case of $Bi_2Te_3$ . Physical Review Letters, 2015, 115, 216802.	2.9	87
8	Nature of the Dirac gap modulation and surface magnetic interaction in axion antiferromagnetic topological insulator $MnBi_2Te_4$ . Scientific Reports, 2020, 10, 13226.	1.6	62
9	Signatures of temperature driven antiferromagnetic transition in the electronic structure of topological insulator MnBi <sub>2</sub> Te <sub>4</sub> . APL Materials, 2020, 8, .	2.2	56
10	Bulk and surface electron dynamics in a topological insulator $Sb_2Te_3$ . Physical Review B, 2014, 89, .	11	54
11	Native point defects and their implications for the Dirac point gap at MnBi <sub>2</sub> Te <sub>4</sub> (0001). Npj Quantum Materials, 2022, 7, .	1.8	53
12	Observation of a highly spin-polarized topological surface state in GeBi <sub>2</sub> Te <sub>4</sub> . Physical Review B, 2012, 86, .	1.1	52
13	Phase diagrams in materials science of topological insulators based on metal chalcogenides. Russian Journal of Inorganic Chemistry, 2017, 62, 1703-1729.	0.3	51
14	Experimental investigation of the Ag-Bi ternary system and thermodynamic properties of the ternary phases. Journal of Alloys and Compounds, 2013, 551, 512-520.	2.8	50
15	Quasiparticle spectrum and plasmonic excitations in the topological insulator $Sb_2Te_3$ . Physical Review B, 2015, 91, .	1.1	46
16	Sample-dependent Dirac-point gap in $MnBi_2Te_4$ and its response to applied surface charge: A combined photoemission and <i>ab initio</i> study. Physical Review B, 2021, 104, .	1.1	46
17	Temperature Driven Phase Transition at the Antimonene/Bi <sub>2</sub> Se <sub>3</sub> van der Waals Heterostructure. ACS Nano, 2019, 13, 10481-10489.	7.3	45
18	Tuning the Dirac Point Position in $Bi_2Te_3$ . Nano Letters, 2014, 113, 116802.	2.9	44

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19	Manipulating the Topological Interface by Molecular Adsorbates: Adsorption of Co-Phthalocyanine on Bi <sub>2</sub> Se <sub>3</sub> . Nano Letters, 2016, 16, 3409-3414.	4.5	44
20	Experimental Evidence of Hidden Topological Surface States in $\text{PbBi}_4\text{Te}_6$ . Physical Review Letters, 2013, 111, 206803.	2.9	39
21	The phase equilibria in the Bi-Sb-I ternary system and thermodynamic properties of the BiSb and Bi <sub>19</sub> Sb <sub>27</sub> I <sub>3</sub> ternary compounds. Journal of Alloys and Compounds, 2014, 610, 522-528.	2.8	31
22	Some Issues of Complex Studies of Phase Equilibria and Thermodynamic Properties in Ternary Chalcogenide Systems Involving Emf Measurements (Review). Russian Journal of Inorganic Chemistry, 2019, 64, 1649-1671.	0.3	30
23	Phase diagram of the Sb-Se-I system and thermodynamic properties of SbSeI. Journal of Alloys and Compounds, 2010, 505, 450-455.	2.8	29
24	Multiple Coexisting Dirac Surface States in Three-Dimensional Topological Insulator PbBi <sub>6</sub> Te <sub>10</sub> . ACS Nano, 2016, 10, 3518-3524.	7.3	29
25	Exploring the Surface Chemical Reactivity of Single Crystals of Binary and Ternary Bismuth Chalcogenides. Journal of Physical Chemistry C, 2014, 118, 21517-21522.	1.5	27
26	New thallium neodymium tellurides. Inorganic Materials, 2008, 44, 935-938.	0.2	26
27	The EMF Method with Solid-State Electrolyte in the Thermodynamic Investigation of Ternary Copper and Silver Chalcogenides. , 0, , .		26
28	Evidence of $\hat{\Gamma}_2$ -antimonene at the Sb/Bi <sub>2</sub> Se <sub>3</sub> interface. Nanotechnology, 2018, 29, 065704.	1.3	26
29	Tautomerism and acid-base properties of some azoderivatives of benzoylacetone. Journal of Molecular Liquids, 2011, 162, 84-88.	2.3	25
30	Response of the topological surface state to surface disorder in TlBiSe <sub>2</sub> . New Journal of Physics, 2015, 17, 023067.	1.2	24
31	Indentation fracture toughness of single-crystal Bi <sub>2</sub> Te <sub>3</sub> topological insulators. Nano Research, 2016, 9, 1032-1042.	5.8	23
32	Thermodynamic investigation of silver-thallium tellurides by EMF method with solid electrolyte Ag <sub>4</sub> RbI <sub>5</sub> . Journal of Chemical Thermodynamics, 2019, 128, 78-86.	1.0	23
33	Thermodynamic study of the Ag-As-Se and Ag-S-I systems using the EMF method with a solid Ag <sub>4</sub> RbI <sub>5</sub> electrolyte. Russian Journal of Electrochemistry, 2009, 45, 399-404.	0.3	22
34	Mechanical properties of Bi <sub>2</sub> Te <sub>3</sub> topological insulator investigated by density functional theory and nanoindentation. Scripta Materialia, 2016, 121, 50-55.	2.6	22
35	Electronic structure and dielectric function of Mn-Bi-Te layered compounds. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2019, 37, .	0.6	21
36	Phase equilibria and thermodynamic properties of the system Bi-Sb-Te-I. Journal of Alloys and Compounds, 2009, 481, 349-353.	2.8	20

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37	Physicochemical Aspects of Development of Multicomponent Chalcogenide Phases Having the $Tl_5Te_3$ Structure: A Review. Russian Journal of Inorganic Chemistry, 2018, 63, 1704-1730.	0.3	20
38	Determination of the thermodynamic functions of bismuth chalcogenides by EMF method with morpholinium formate as electrolyte. Thermochemica Acta, 2019, 679, 178319.	1.2	20
39	Topologization of $\Gamma^2$ -antimonene on $Bi_2Se_3$ via proximity effects. Scientific Reports, 2020, 10, 14619.	1.6	17
40	Phase equilibria in the Cu-Bi-Se system and thermodynamic properties of copper selenobismuthates. Russian Journal of Inorganic Chemistry, 2010, 55, 1471-1481.	0.3	16
41	Phase equilibria study in systems Tl-Pb(Nd)-Bi-Te new phases of variable composition on the base of $Tl_9BiTe_6$ . Journal of Alloys and Compounds, 2010, 491, 230-236.	2.8	16
42	Phase diagram of the $Sb-Te-I$ system and thermodynamic properties of $SbTeI$ . International Journal of Materials Research, 2012, 103, 290-295.	0.1	15
43	Phase diagram and thermodynamic properties of compounds of the $Ag-I-I$ system. Journal of Alloys and Compounds, 2012, 524, 38-45.	2.8	15
44	Topologically Nontrivial Phase-Change Compound $GeSb_2Te_4$ . ACS Nano, 2020, 14, 9059-9065.	7.3	15
45	The phase equilibria in the $Ag_2S-Ag_8GeS_6-Ag_8SnS_6$ system. Journal of Alloys and Compounds, 2014, 611, 395-400.	2.8	14
46	Impact of stoichiometry and disorder on the electronic structure of the $PbBi_{1-x}Te_{1+x}$ topological insulator. Physical Review B, 2017, 96, .	1.2	14
47	Study of the $2Cu_2S+Ag_2GeSe_2+2Cu_2Se+Ag_2GeSe_2$ reciprocal system and thermodynamic properties of the $Cu_8GeS_6-xS_x$ solid solutions. Journal of Alloys and Compounds, 2017, 691, 255-262.	2.8	14
48	Nanoindentation of single-crystal $Bi_2Te_3$ topological insulators grown with the Bridgman-Stockbarger method. Physica Status Solidi (B): Basic Research, 2016, 253, 1082-1086.	0.7	13
49	Thermodynamic study of antimony chalcogenides by EMF method with an ionic liquid. Journal of Thermal Analysis and Calorimetry, 2018, 133, 1115-1120.	2.0	13
50	Phase equilibria in the $Ag_2Se-GeSe_2-SnSe_2$ system and thermodynamic properties of $Ag_8Ge_{1-x}Sn_xSe_6$ solid solutions. Inorganic Materials, 2017, 53, 786-796.	0.2	12
51	Deep Insight Into the Electronic Structure of Ternary Topological Insulators: A Comparative Study of $PbBi_4Te_7$ and $PbBi_6Te_{10}$ . Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800341.	1.2	12
52	Refinement of the Phase Diagram of the Bi-Te System and the Thermodynamic Properties of Lower Bismuth Tellurides. Jom, 2021, 73, 1511-1521.	0.9	12
53	$Cu_4RbCl_{12}$ solid superionic conductor in thermodynamic study of three-component copper chalcogenides. Russian Journal of Electrochemistry, 2009, 45, 405-410.	0.3	11
54	Thermodynamic study of $Ag_8GeSe_6$ by EMF with an $Ag_4RbI_5$ solid electrolyte. Russian Journal of Electrochemistry, 2017, 53, 551-554.	0.3	11

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55	Phase equilibria and thermodynamic properties of the system Tl-TlCl-Se. Russian Journal of Inorganic Chemistry, 2007, 52, 753-760.	0.3	10
56	A thermodynamic study of Cu-Tl-S system by EMF method with Cu <sub>4</sub> RbCl <sub>3</sub> I <sub>2</sub> solid electrolyte. Russian Journal of Electrochemistry, 2010, 46, 354-358.	0.3	10
57	Phase equilibria in the pseudoternary system Ag <sub>2</sub> Se-Ag <sub>8</sub> GeSe <sub>6</sub> -Ag <sub>8</sub> SnSe <sub>6</sub> . Inorganic Materials, 2014, 50, 981-986.	0.2	10
58	Study of the YbTe-SnTe-Sb <sub>2</sub> Te <sub>3</sub> quasi-ternary system. Journal of Alloys and Compounds, 2014, 602, 248-254.	2.8	10
59	Experimental Study and 3D Modeling of the Phase Diagram of the Ag-Sn-Se System. Russian Journal of Inorganic Chemistry, 2018, 63, 1622-1635.	0.3	10
60	Phase equilibria in the Ag-Bi-Te system. Russian Journal of Inorganic Chemistry, 2007, 52, 434-440.	0.3	9
61	Insight on a novel layered semiconductors: CuTlS and CuTlSe. Journal of Solid State Chemistry, 2016, 242, 1-7.	1.4	9
62	Thermodynamic properties of the SnSb <sub>2</sub> Te <sub>4</sub> compound. Inorganic Materials, 2017, 53, 354-357.	0.2	9
63	Study and 3D modeling of the phase diagram of the Ag-Ge-Se system. Russian Journal of Inorganic Chemistry, 2017, 62, 1223-1233.	0.3	9
64	Thermodynamic Properties of Tl <sub>9</sub> GdTe <sub>6</sub> and TlGdTe <sub>2</sub> . Russian Journal of Physical Chemistry A, 2018, 92, 2111-2117.	0.1	9
65	Phase Equilibria of the MnTe-Sb <sub>2</sub> Te <sub>3</sub> System and Synthesis of Novel Ternary Layered Compound MnSb <sub>4</sub> Te <sub>7</sub> . Physics and Chemistry of Solid State, 2021, 22, 39-44.	0.3	9
66	Experimental study of the phase relations and thermodynamic properties of Bi-Se system. Journal of Thermal Analysis and Calorimetry, 2022, 147, 6403-6414.	2.0	9
67	Phase diagram of the Tl-TlI-S system and thermodynamic properties of the compound Tl <sub>6</sub> SI <sub>4</sub> . Russian Journal of Inorganic Chemistry, 2012, 57, 90-99.	0.3	8
68	Thermodynamic study of the Cu-As-S system by EMF measurements with Cu <sub>4</sub> RbCl <sub>3</sub> I <sub>2</sub> as a solid electrolyte. Inorganic Materials, 2012, 48, 225-228.	0.2	8
69	The Phase Relationships in the Sb-S-I System and Thermodynamic Properties of the SbSI. Journal of Phase Equilibria and Diffusion, 2017, 38, 887-896.	0.5	8
70	Geometric and electronic structure of the Cs-doped Bi <sub>2</sub> Te <sub>1-x</sub> Se <sub>x</sub> (0001) surface. Physical Review B, 2017, 95, .		
71	Phase Relations in the FeSe-FeGa <sub>2</sub> Se <sub>4</sub> -FeIn <sub>2</sub> Se <sub>4</sub> System: Refinement of the Crystal Structures of FeIn <sub>2</sub> Se <sub>4</sub> and FeGaInSe <sub>4</sub> . Journal of Phase Equilibria and Diffusion, 2019, 40, 787-796.	0.5	8
72	Solid-state equilibria and thermodynamic properties of compounds in the Bi-Te-I system. Inorganic Materials, 2008, 44, 1076-1080.	0.2	7

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73	Phase equilibria in the Tl-TlBr-Te system and thermodynamic properties of the compound Tl <sub>5</sub> Te <sub>2</sub> Br. Russian Journal of Inorganic Chemistry, 2010, 55, 1620-1629.	0.3	7
74	Phase diagram and thermodynamic properties of the system As-Te. Journal of Alloys and Compounds, 2011, 509, 602-608.	2.8	7
75	Homogeneity ranges and thermodynamic properties of ternary phases in the SnTe-Bi <sub>2</sub> Te <sub>3</sub> -Te system. Inorganic Materials, 2011, 47, 235-239.	0.2	7
76	Thermodynamic properties of arsenic sulfides studied by EMF measurements. Inorganic Materials, 2011, 47, 227-230.	0.2	7
77	PbTe-Bi <sub>2</sub> Te <sub>3</sub> -Te system studied by EMF measurements. Inorganic Materials, 2011, 47, 712-716.	0.2	7
78	Phase equilibria in the Tl-TlCl-Te system and thermodynamic properties of the compound Tl <sub>5</sub> Te <sub>2</sub> Cl. Russian Journal of Inorganic Chemistry, 2011, 56, 442-449.	0.3	7
79	Thermodynamic study of Cu-Tl-Te system using EMF technique with Cu <sub>4</sub> RbCl <sub>3</sub> I <sub>2</sub> solid electrolyte. Russian Journal of Electrochemistry, 2012, 48, 68-73.	0.3	7
80	Thermodynamic study of the Ag <sub>2</sub> S-As <sub>2</sub> S <sub>3</sub> -S system by EMF measurements with Ag <sub>4</sub> RbI <sub>5</sub> as a solid electrolyte. Inorganic Materials, 2014, 50, 6-9.	0.2	7
81	Phase boundaries of the (YbTe) <sub>1-x</sub> (PbTe) <sub>x</sub> and (YbTe) <sub>1-x</sub> (SnTe) <sub>x</sub> solid solution series. Inorganic Materials, 2016, 52, 543-545.	0.2	7
82	The Ag <sub>2</sub> Te-SnTe-Bi <sub>2</sub> Te <sub>3</sub> system and thermodynamic properties of the (2SnTe) <sub>1-x</sub> (AgBiTe <sub>2</sub> ) <sub>x</sub> solid solutions series. Journal of Alloys and Compounds, 2017, 724, 641-648.	2.8	7
83	Thermodynamic study of the Ag-Tl-Se system using the EMF method with Ag <sub>4</sub> RbI <sub>5</sub> as a solid electrolyte. Journal of Solid State Electrochemistry, 2018, 22, 1143-1148.	1.2	7
84	Phase Diagram of the System Tl <sub>2</sub> Te-Tl <sub>5</sub> Te <sub>3</sub> -Tl <sub>9</sub> GdTe <sub>6</sub> . Russian Journal of Inorganic Chemistry, 2018, 63, 262-269.	0.3	7
85	Thermodynamic Study of Siver-Tin Selenides by the EMF Method with Ag <sub>4</sub> RbI <sub>5</sub> Solid Electrolyte. Russian Journal of Electrochemistry, 2019, 55, 467-474.	0.3	7
86	Solid-Phase Equilibria in the Tl <sub>2</sub> Te-Tl <sub>2</sub> Te <sub>3</sub> -TlErTe <sub>2</sub> System and the Thermodynamic Properties of the Tl <sub>9</sub> ErTe <sub>6</sub> and TlErTe <sub>2</sub> Compounds. Russian Journal of Inorganic Chemistry, 2020, 65, 1762-1769.	0.3	7
87	Physicochemical Analysis of the FeSe-Ga <sub>2</sub> Se <sub>3</sub> -In <sub>2</sub> Se <sub>3</sub> System. Russian Journal of Inorganic Chemistry, 2020, 65, 1747-1755.	0.3	7
88	Phase equilibria and thermodynamic properties of the system Tl-TlBr-Se. Russian Journal of Inorganic Chemistry, 2007, 52, 761-767.	0.3	6
89	Solubility of YbTe in Sb <sub>2</sub> Te <sub>3</sub> and thermodynamic properties of the solid solution. Journal of Alloys and Compounds, 2011, 509, 6773-6776.	2.8	6
90	Phase diagram of the YbTe-Sb <sub>2</sub> Te <sub>3</sub> -Bi <sub>2</sub> Te <sub>3</sub> quasi-ternary system. Journal of Alloys and Compounds, 2014, 589, 399-404.	2.8	6

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91	Phase equilibria in the $\text{Cu}_2\text{S}-\text{Cu}_3\text{AsS}_4-\text{S}$ system. Russian Journal of Inorganic Chemistry, 2017, 62, 591-597.	0.3	6
92	Phase equilibria in the $\text{Tl}_2\text{Te}-\text{Tl}_5\text{Te}_3-\text{Tl}_9\text{TbTe}_6$ system. Inorganic Materials, 2017, 53, 361-368.	0.2	6
93	Phase Equilibria in the $\text{Ag}_2\text{Te}-\text{SnTe}-\text{Sb}_2\text{Te}_3$ System and Thermodynamic Properties of the $(2\text{SnTe})_{1-x}(\text{AgSbTe}_2)_x$ Solid Solution. Journal of Phase Equilibria and Diffusion, 2017, 38, 603-614.	0.5	6
94	Thermodynamic functions of arsenic selenides. Russian Journal of Physical Chemistry A, 2017, 91, 1170-1173.	0.1	6
95	Infrared spectroscopic ellipsometry and optical spectroscopy of plasmons in classic 3D topological insulators. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2019, 37, 062602.	0.6	6
96	Probe-dependent Dirac-point gap in the gadolinium-doped thallium-based topological insulator $\text{TlBi}_{0.9}\text{Gd}_{0.1}\text{Se}_2$ . Physical Review B, 2020, 102, .	1.1	6
97	Phase equilibria in the $\text{Tl}-\text{TlBr}-\text{S}$ system. Russian Journal of Inorganic Chemistry, 2006, 51, 810-813.	0.3	5
98	Reciprocal system $3\text{Tl}_2\text{S} + \text{Sb}_2\text{Se}_3 \rightleftharpoons 3\text{Tl}_2\text{Se} + \text{Sb}_2\text{S}_3$ . Russian Journal of Inorganic Chemistry, 2008, 53, 146-152.	0.3	5
99	Experimental study of the phase diagram and thermodynamic properties of the $\text{Tl}-\text{Sb}-\text{S}$ system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2016, 55, 231-237.	0.7	5
100	Phase Equilibria in the $\text{Tl}_2\text{Te}-\text{Tl}_5\text{Te}_3-\text{Tl}_9\text{TmTe}_6$ Section of the $\text{Tl}-\text{Tm}-\text{Te}$ System. Journal of Phase Equilibria and Diffusion, 2017, 38, 764-770.	0.5	5
101	Phase Equilibria in the $\text{Cu}_2\text{Se}-\text{Cu}_3\text{AsSe}_4-\text{Se}$ System and Thermodynamic Properties of $\text{Cu}_3\text{AsSe}_4$ . Inorganic Materials, 2018, 54, 8-16.	0.2	5
102	Phase Equilibria in the $\text{Cu}_2\text{Se}-\text{SnSe}-\text{CuSbSe}_2$ System. Russian Journal of Inorganic Chemistry, 2019, 64, 801-809.	0.3	5
103	Surface electronic structure of the wide band gap topological insulator $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{PbBi} \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle$ . Physical Review B, 2019, 100, .		
104	Phase Equilibria in the $\text{Tl}_2\text{S}-\text{Tl}_2\text{Te}-\text{Tl}_9\text{BiTe}_6-\text{TlBiS}_2$ system. Inorganic Materials, 2008, 44, 1183-1186.	0.2	4
105	Solid-state phase equilibria and thermodynamic properties of ternary compounds in the $\text{Tl}-\text{Sb}-\text{S}$ system. Inorganic Materials, 2011, 47, 579-582.	0.2	4
106	Experimental investigation of the $3\text{Tl}_2\text{Se}+\text{Sb}_2\text{Te}_3 \rightleftharpoons 3\text{Tl}_2\text{Te}+\text{Sb}_2\text{Se}_3$ phase diagram. Journal of Alloys and Compounds, 2013, 555, 184-192.	2.8	4
107	Phase equilibria in the $\text{Tl}_2\text{Te}-\text{YbTe}-\text{Te}$ system. Inorganic Materials, 2015, 51, 1237-1242.	0.2	4
108	Phase relationships in the $1.5\text{GeS}_2 + \text{Cu}_2\text{GeSe}_3 \rightleftharpoons 1.5\text{GeSe}_2 + \text{Cu}_2\text{GeS}_3$ reciprocal system. Journal of Alloys and Compounds, 2015, 625, 131-137.	2.8	4



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109	The Tl <sup>+</sup> phase diagram revisited and the thermodynamic properties of thallium iodides. <i>Inorganic Materials</i> , 2017, 53, 519-524.	0.2	4
110	An Updated Phase Diagram of the SnTe-Sb <sub>2</sub> Te <sub>3</sub> System and the Crystal Structure of the New Compound SnSb <sub>4</sub> Te <sub>7</sub> . <i>Journal of Phase Equilibria and Diffusion</i> , 2021, 42, 373-378.	0.5	4
111	Phase Equilibria in the MnGa <sub>2</sub> Tl <sub>4</sub> -MnIn <sub>2</sub> Tl <sub>4</sub> System, Crystal Structure and Physical Properties of MnGaInTl <sub>4</sub> . <i>Acta Chimica Slovenica</i> , 2019, 66, 466-472.	0.2	4
112	Phase Equilibria in the Cu <sub>2</sub> Se-GeSe <sub>2</sub> -SnSe <sub>2</sub> System. <i>Russian Journal of Inorganic Chemistry</i> , 2022, 67, 670-682.	0.3	4
113	Reciprocal system 3Tl <sub>2</sub> S + Bi <sub>2</sub> Se <sub>3</sub> ⇌ 3Tl <sub>2</sub> Se + Bi <sub>2</sub> S <sub>3</sub> . <i>Russian Journal of Inorganic Chemistry</i> , 2006, 51, 805-809.	0.3	3
114	Phase equilibria in the Ag <sub>2</sub> Se-AgAsSe <sub>2</sub> -AgBiSe <sub>2</sub> system. <i>Inorganic Materials</i> , 2010, 46, 1171-1180.	0.2	3
115	Thermodynamic properties of copper thallium tellurides. <i>Inorganic Materials</i> , 2011, 47, 361-364.	0.2	3
116	Phase equilibria in the Tl <sub>2</sub> Te-SnTe-Bi <sub>2</sub> Te <sub>3</sub> system. <i>Russian Journal of Inorganic Chemistry</i> , 2011, 56, 1981-1987.	0.3	3
117	Phase equilibria in the Cu-Cu <sub>2</sub> S-As system. <i>Russian Journal of Inorganic Chemistry</i> , 2012, 57, 1158-1162.	0.3	3
118	Solid-phase equilibria and thermodynamic properties of the Tl <sub>2</sub> Se-As <sub>2</sub> Se <sub>3</sub> -Se system. <i>Russian Journal of Inorganic Chemistry</i> , 2012, 57, 270-273.	0.3	3
119	Phase equilibria in the reciprocal system 3Tl <sub>2</sub> S + Bi <sub>2</sub> Te <sub>3</sub> ⇌ 3Tl <sub>2</sub> Te + Bi <sub>2</sub> S <sub>3</sub> . <i>Inorganic Materials</i> , 2014, 50, 551-558.	0.2	3
120	Phase equilibria in the Cu-Cu <sub>2</sub> Se-As system. <i>Russian Journal of Inorganic Chemistry</i> , 2017, 62, 598-603.	0.3	3
121	Thermodynamic study of solid solutions in the SnTe-AgSbTe <sub>2</sub> system by means of EMF with solid electrolyte Ag <sub>4</sub> RbI <sub>5</sub> . <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 1642-1646.	0.1	3
122	Phase equilibria in the Tl <sub>5</sub> Te <sub>3</sub> -Tl <sub>9</sub> BiTe <sub>6</sub> -Tl <sub>9</sub> TbTe <sub>6</sub> system. <i>Inorganic Materials</i> , 2017, 53, 685-689.	0.2	3
123	Thermodynamic Study of Cu <sub>2</sub> GeS <sub>3</sub> and Cu <sub>2</sub> -xAg <sub>x</sub> GeS <sub>3</sub> Solid Solutions by the EMF Method with a Cu <sub>4</sub> RbCl <sub>3</sub> I <sub>2</sub> Solid Electrolyte. <i>Russian Journal of Electrochemistry</i> , 2018, 54, 195-200.	0.3	3
124	The Bi <sub>2</sub> Se <sub>3</sub> -Bi <sub>2</sub> Te <sub>3</sub> -BiI <sub>3</sub> system: Synthesis and characterization of the BiTe <sub>1-x</sub> SexI solid solutions. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019, 66, 101650.	0.7	3
125	The Quasi-Ternary System Bi <sub>2</sub> S <sub>3</sub> -Bi <sub>2</sub> Te <sub>3</sub> -BiI <sub>3</sub> . <i>Russian Journal of Inorganic Chemistry</i> , 2021, 66, 538-549.	0.3	3
126	Study of the Uncertainty Heterogeneous Phase Equilibria Areas in the Binary YbTe-SnTe Alloy System. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 815-822.	0.5	3



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127	Phase Equilibria and some Properties of Solid Solutions in THE Tl <sub>5</sub> Te <sub>3</sub> -Tl <sub>9</sub> SbTe <sub>6</sub> -Tl <sub>9</sub> GdTe <sub>6</sub> System. Acta Chimica Slovenica, 2017, 64, 221-226.	0.2	3
128	Phase Relations in the SnSe <sub>2</sub> -Er <sub>2</sub> Se <sub>3</sub> System. Inorganic Materials, 2003, 39, 927-930.	0.2	2
129	Ag <sub>2</sub> Se-AgTlSe-TlBiSe <sub>2</sub> quasi-ternary system. Russian Journal of Inorganic Chemistry, 2006, 51, 642-644.	0.3	2
130	Phase equilibria in the system Tl <sub>2</sub> Te-SnTe-TlBiTe <sub>2</sub> . Inorganic Materials, 2008, 44, 1060-1065.	0.2	2
131	Thermodynamic properties and homogeneity regions of Tl <sub>6</sub> SCI <sub>4</sub> and Tl <sub>5</sub> Se <sub>2</sub> Cl. Inorganic Materials, 2009, 45, 129-134.	0.2	2
132	Phase equilibria and some properties of solid solutions in the Tl <sub>5</sub> Te <sub>3</sub> -Tl <sub>9</sub> BiTe <sub>6</sub> -Tl <sub>5</sub> Te <sub>2</sub> Cl system. Russian Journal of Inorganic Chemistry, 2011, 56, 1833-1838.	0.3	2
133	Phase equilibria in the Tl <sub>2</sub> Te-PbTe-Bi <sub>2</sub> Te <sub>3</sub> system. Russian Journal of Inorganic Chemistry, 2012, 57, 1387-1392.	0.3	2
134	Phase equilibria in the PbSe-Bi <sub>2</sub> Se <sub>3</sub> -Se system and thermodynamic properties of intermediate phases. Russian Journal of Inorganic Chemistry, 2012, 57, 100-103.	0.3	2
135	Thermodynamic Study of Tl <sub>6</sub> SBr <sub>4</sub> Compound and Some Regularities in Thermodynamic Properties of Thallium Chalcogenides. Advances in Materials Science and Engineering, 2017, 2017, 1-9.	1.0	2
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137	The YbTe-SnTe-Bi <sub>2</sub> Te <sub>3</sub> system. Journal of Alloys and Compounds, 2018, 750, 887-894.	2.8	2
138	Thermodynamic Study of the 2PbTe-AgSbTe <sub>2</sub> System Using EMF Technique with the Ag <sub>4</sub> RbI <sub>5</sub> Solid Electrolyte. Russian Journal of Electrochemistry, 2018, 54, 106-111.	0.3	2
139	Experimental Study of the Tl <sub>4</sub> PbTe <sub>3</sub> -Tl <sub>9</sub> TbTe <sub>6</sub> -Tl <sub>9</sub> BiTe <sub>6</sub> Section of the Tl-Pb-Bi-Tb-Te System. Materials Research, 2018, 21, .	0.6	2
140	Experimental study of phase equilibria and thermodynamic properties of the Tl-Se-I system. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1765-1773.	2.0	2
141	Diagram of Solid-Phase Equilibria in the SnSe-Sb <sub>2</sub> Se <sub>3</sub> -Se System and Thermodynamic Properties of Tin Antimony Selenides. Russian Journal of Inorganic Chemistry, 2021, 66, 96-103.	0.3	2
142	Thermodynamic Properties of Bismuth Selenides. Russian Journal of Physical Chemistry A, 2021, 95, 920-925.	0.1	2
143	Thermodynamic Modeling of the Phase Diagram for Cu <sub>2</sub> SnS <sub>3</sub> -Cu <sub>2</sub> SnSe <sub>3</sub> System. Advances in Intelligent Systems and Computing, 2020, , 888-895.	0.5	2
144	Phase Equilibria in the Tl <sub>4</sub> PbTe <sub>3</sub> -Tl <sub>9</sub> SmTe <sub>6</sub> -Tl <sub>9</sub> BiTe <sub>6</sub> Section of the Tl-Pb-Bi-Sm-Te System. Acta Chimica Slovenica, 2018, 65, 365-371.	0.2	2

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146	FeSâ€“Ga <sub>2</sub> S <sub>3</sub> â€“In <sub>2</sub> S <sub>3</sub> System. Russian Journal of Inorganic Chemistry, 2021, 66, 1533-1543.	0.3	2
147	The Charge Transport Mechanism in a New Magnetic Topological Insulator MnBi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>4</sub> . Physics of the Solid State, 2021, 63, 1120-1125.	0.2	2
148	T-x-y diagram of the Ni-Bi-Se system. Russian Journal of Inorganic Chemistry, 2006, 51, 624-629.	0.3	1
149	Quasi-ternary system Tl <sub>2</sub> Se-AgTlSe-TlBiSe <sub>2</sub> . Russian Journal of Inorganic Chemistry, 2007, 52, 126-128.	0.3	1
150	Homogeneity ranges of Tl <sub>5</sub> Te <sub>2</sub> Cl and Tl <sub>5</sub> Te <sub>2</sub> Br. Inorganic Materials, 2008, 44, 1069-1075.	0.2	1
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152	Phase equilibria and some properties of solid solutions in the Tl <sub>5</sub> Te <sub>3</sub> -Tl <sub>9</sub> BiTe <sub>6</sub> -Tl <sub>5</sub> Te <sub>2</sub> Br system. Russian Journal of Inorganic Chemistry, 2011, 56, 1114-1118.	0.3	1
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154	Phase equilibria in the Cu-Tl-Ge system. Russian Journal of Inorganic Chemistry, 2012, 57, 443-448.	0.3	1
155	Study of the 3Tl <sub>2</sub> S+Sb <sub>2</sub> Te <sub>3</sub> â†“3Tl <sub>2</sub> Te+Sb <sub>2</sub> S <sub>3</sub> reciprocal system. Journal of Alloys and Compounds, 2014, 582, 659-669.	2.8	1
156	Tlâ€“Biâ€“Erâ€“Te System in the Composition Region Tl <sub>2</sub> Teâ€“Tl <sub>9</sub> BiTe <sub>6</sub> â€“Tl <sub>9</sub> ErTe <sub>6</sub> . Russian Journal of Inorganic Chemistry, 2019, 64, 907-913.	0.3	1
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161	Thermodynamic study of manganese tellurides by the electromotive force method. Kondensirovannye Sredy Mezhfaznye Granitsy, 2021, 23, 273-281.	0.1	1
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165	The phase diagram of the MnTe-SnTe-Sb <sub>2</sub> Te <sub>3</sub> ternary system and synthesis of the iso- and aliovalent cation-substituted solid solutions. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2022, 76, 102398.	0.7	1
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169	MnSe solubility in In-CuInSe <sub>2</sub> . <i>Inorganic Materials</i> , 2008, 44, 1176-1178.	0.2	0
170	Ag <sub>2</sub> Se-Tl <sub>2</sub> Se-Bi <sub>2</sub> Se <sub>3</sub> quasi-ternary system. <i>Russian Journal of Inorganic Chemistry</i> , 2009, 54, 1482-1489.	0.3	0
171	Thermodynamic properties of phases in the Yb-Bi-Se system. <i>Inorganic Materials</i> , 2011, 47, 352-355.	0.2	0
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175	Phase equilibria and decomposition of solid solutions in the YbTe-SnTe-PbTe system. <i>Inorganic Materials</i> , 2017, 53, 797-803.	0.2	0
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182	Phase Equilibria in the Ag <sub>2</sub> Te-PbTe-Sb <sub>2</sub> Te <sub>3</sub> System and Thermodynamic Properties of the (2PbTe) <sub>1-x</sub> (AgSbTe <sub>2</sub> ) <sub>x</sub> Solid Solutions. <i>Acta Chimica Slovenica</i> , 2020, 67, 799-811.	0.2	0
183	Thermodynamic Properties of Terbium Tellurides. <i>Kondensirovannye Sredy Mezhfaznye Granitsy</i> , 2020, 22, 453-459.	0.1	0
184	Thermodynamic Properties of the BiTe and Bi <sub>8</sub> Te <sub>9</sub> Compounds. <i>Physics and Chemistry of Solid State</i> , 2020, 21, 714-719.	0.3	0
185	Phase Equilibria in the Ag <sub>2</sub> Te-PbTe-Sb <sub>2</sub> Te <sub>3</sub> System and Thermodynamic Properties of the (2PbTe) <sub>1-x</sub> (AgSbTe <sub>2</sub> ) <sub>x</sub> Solid Solutions. <i>Acta Chimica Slovenica</i> , 2020, 67, 799-811.	0.2	0
186	Phase Equilibria in the Ag <sub>2</sub> Te-PbTe-Sb <sub>2</sub> Te <sub>3</sub> System and Thermodynamic Properties of the (2PbTe) <sub>1-x</sub> (AgSbTe <sub>2</sub> ) <sub>x</sub> Solid Solutions. <i>Acta Chimica Slovenica</i> , 2020, 67, 799-811.	0.2	0
187	Solid-Phase Equilibria in the SnTe-Sb <sub>2</sub> Te <sub>3</sub> -Te System and the Thermodynamic Properties of the Tin-Antimony Tellurides. <i>Russian Journal of Inorganic Chemistry</i> , 2022, 67, 683-690.	0.3	0