

Yuriy Plevachuk

List of Publications by Year in descending order

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957
citing authors

#	ARTICLE	IF	CITATIONS
19	Liquid Metals in High-Temperature Cooling Systems: The Effect of Bi Additions for the Physicochemical Properties of Eutectic Ga-Sn-Zn. Journal of Chemical & Engineering Data, 2019, 64, 404-411.	1.9	9
20	Microsegregation in Ion-Electron Liquids: Molten Metals and Alloys. Springer Proceedings in Physics, 2018, , 111-132.	0.2	0
21	Thermophysical properties of the liquid Ga-Sn-Zn eutectic alloy. Fluid Phase Equilibria, 2018, 465, 1-9.	2.5	37
22	AlCoCrCuFeNi-Based High-Entropy Alloys: Correlation Between Molar Density and Enthalpy of Mixing in the Liquid State. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 6544-6552.	2.2	10
23	The thermophysical properties of eutectic Ga-Sn-Zn with In additions. Journal of Molecular Liquids, 2018, 271, 942-948.	4.9	9
24	The application of liquid metals in cooling systems: A study of the thermophysical properties of eutectic Ga-Sn-Zn with Al additions. International Journal of Heat and Mass Transfer, 2018, 126, 414-420.	4.8	21
25	Optical properties of thin crystalline films CuIn _{0.5} Ga _{0.5} Se ₂ obtained by laser deposition. Journal of Physical Studies, 2018, 22, .	0.5	0
26	Microstructure and Electro-Physical Properties of Sn-3.0Ag-0.5Cu Nanocomposite Solder Reinforced with Ni Nanoparticles in the Melting-Solidification Temperature Range. Journal of Phase Equilibria and Diffusion, 2017, 38, 217-222.	1.4	13
27	Nanocomposite SAC solders: morphology, electrical and mechanical properties of Sn-3.8Ag-0.7Cu solders by adding Co nanoparticles. Journal of Materials Science: Materials in Electronics, 2017, 28, 10965-10973.	2.2	19
28	Thermophysical structure-sensitive properties of Tin-Zinc alloys. Journal of Materials Science: Materials in Electronics, 2017, 28, 750-759.	2.2	3
29	Thermophysical properties of some liquid binary Mg-based alloys. Journal of Mining and Metallurgy, Section B: Metallurgy, 2017, 53, 279-284.	0.8	2
30	Fukushima: the destruction mechanism of nuclear materials. Journal of Physical Studies, 2017, 21, .	0.5	0
31	Viscosity and Electrical Conductivity of the Liquid Sn-3.8Ag-0.7Cu Alloy with Minor Co Admixtures. Journal of Materials Engineering and Performance, 2016, 25, 4437-4443.	2.5	12
32	Morphology and Shear Strength of Lead-Free Solder Joints with Sn _{3.0} Ag _{0.5} Cu Solder Paste Reinforced with Ceramic Nanoparticles. Journal of Electronic Materials, 2016, 45, 6143-6149.	2.2	35
33	Liquid Co-Sn alloys at high temperatures: structure and physical properties. Physics and Chemistry of Liquids, 2016, 54, 440-453.	1.2	3
34	Structure and physical properties of ternary Na-Li-Ln ₃ (Ln = La, Nd) systems of eutectic compositions. Physics and Chemistry of Liquids, 2016, 54, 717-726.	1.2	7
35	Electrical conductivity and thermoelectric power of liquid Co-Sn alloys. Physics and Chemistry of Liquids, 2015, 53, 200-206.	1.2	1
36	Electrophysical and structure-sensitive properties of liquid Ga-In alloys. International Journal of Materials Research, 2015, 106, 66-71.	0.3	18

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37	Viscosity, Conductivity, and Thermoelectric Power in Ionic and Ion-Electron Eutectic Liquid Systems. Ukrainian Journal of Physics, 2015, 60, 917-924.	0.2	0
38	Viscosity of liquid binary Pb-Zn alloys in the miscibility gap region. Journal of Non-Crystalline Solids, 2014, 391, 12-16.	3.1	5
39	Concentration dependence of physical properties of liquid Na-Li-NdF ₃ alloys. Nuclear Engineering and Design, 2014, 270, 60-64.	1.7	8
40	The Enthalpies of Mixing of Liquid Ni-Sn-Zn Alloys. Journal of Phase Equilibria and Diffusion, 2014, 35, 359-368.	1.4	7
41	Viscosity of liquid Co-Sn alloys: thermodynamic evaluation and experiment. Physics and Chemistry of Liquids, 2014, 52, 562-570.	1.2	17
42	Thermophysical Properties of the Liquid Ga-In-Sn Eutectic Alloy. Journal of Chemical & Engineering Data, 2014, 59, 757-763.	1.9	223
43	Physical Properties of Liquid Eutectic Ionic Systems Na-LaF ₃ and Na-NdF ₃ . Ukrainian Journal of Physics, 2014, 59, 769-774.	0.2	1
44	The influence of silver content on structure and properties of Sn-Bi-Ag solder and Cu/solder/Cu joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 571, 184-192.	5.6	17
45	Thermophysical properties of the liquid Pb _{84.1} Au _{15.9} eutectic alloy. Journal of Nuclear Materials, 2013, 434, 291-295.	2.7	4
46	Physical properties of liquid Na-Li-LaF ₃ and Na-Li-NdF ₃ eutectic alloys. Journal of Nuclear Materials, 2013, 433, 329-333.	2.7	17
47	Surface properties and wetting behavior of liquid Ag-Sb-Sn alloys. Journal of Mining and Metallurgy, Section B: Metallurgy, 2012, 48, 443-448.	0.8	12
48	Surface properties and wetting characteristics of liquid Ag-Bi-Sn alloys. Monatshefte für Chemie, 2012, 143, 1249-1254.	1.8	8
49	Thermophysical Properties of Liquid Silver-Bismuth-Tin Alloys. Journal of Materials Engineering and Performance, 2012, 21, 585-589.	2.5	3
50	Determination of liquidus temperature in Ti-rich alloys of the Fe-Ni-Ti system obtained by DTA, electrical conductivity and XRD measurements. International Journal of Materials Research, 2011, 102, 248-256.	0.3	4
51	Structure parameters and structure sensitive properties of Sn _{0.739} Pb _{0.261} melt. Thermophysics and Aeromechanics, 2011, 18, 123-128.	0.5	4
52	Electrical conductivity and viscosity of liquid Sn-Sb-Cu alloys. Journal of Materials Science: Materials in Electronics, 2011, 22, 631-638.	2.2	10
53	Structure and electric resistance of Sn-Cu(Ag) solders in the precrystallization temperature range. Materials Science, 2011, 46, 464-472.	0.9	3
54	Thermophysical properties and thermal simulation of Bridgman crystal growth process of Ni-Mn-Ca magnetic shape memory alloys. International Journal of Heat and Mass Transfer, 2011, 54, 4167-4174.	4.8	5

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55	Interface between Sn–Sb–Cu solder and copper substrate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5955-5960.	5.6	14
56	Surface tension and density of liquid Bi–Pb, Bi–Sn and Bi–Pb–Sn eutectic alloys. <i>Surface Science</i> , 2011, 605, 1034-1042.	1.9	65
57	Some thermophysical properties of the intermetallic Ti40Al60 alloy in the melting-solidification temperature range. <i>International Journal of Materials Research</i> , 2011, 102, 282-285.	0.3	1
58	The density and the binary diffusion coefficients of silver-tin melts. <i>Thermophysics and Aeromechanics</i> , 2010, 17, 391-396.	0.5	8
59	Experimental study of density, surface tension, and contact angle of Sn–Sb-based alloys for high temperature soldering. <i>Journal of Materials Science</i> , 2010, 45, 2051-2056.	3.7	52
60	Surface tension of liquid Al–Cu–Ag ternary alloys. <i>Journal of Materials Science</i> , 2010, 45, 5150-5157.	3.7	27
61	Viscosity of Sb-Sn melts. <i>Inorganic Materials</i> , 2010, 46, 833-835.	0.8	3
62	Thermophysical properties of liquid tin–bismuth alloys. <i>International Journal of Materials Research</i> , 2010, 101, 839-844.	0.3	25
63	Determination of Liquidus Temperature in Sn–Ti–Zr Alloys by Viscosity, Electrical Conductivity and XRD Measurements. <i>International Journal of Materials Research</i> , 2009, 100, 689-694.	0.3	8
64	Toward Physical Modeling of Laser Welding: Thermophysics Revisited. <i>International Journal of Thermophysics</i> , 2009, 30, 555-571.	2.1	4
65	Structure Sensitive Properties of Liquid Al–Si Alloys. <i>International Journal of Thermophysics</i> , 2009, 30, 1400-1410.	2.1	32
66	Some physical data of the near eutectic liquid lead–bismuth. <i>Journal of Nuclear Materials</i> , 2008, 373, 335-342.	2.7	30
67	Measurement of electrical conductivity of Pb–Bi alloys in the melting–solidification region. <i>Journal of Nuclear Materials</i> , 2008, 376, 363-365.	2.7	3
68	Density, Viscosity, and Electrical Conductivity of Hypoeutectic Al-Cu Liquid Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 3040-3045.	2.2	77
69	Structure and electrophysical properties of liquid Pb ₈₃ Mg ₁₇ and Pb ₈₃ Li ₁₇ eutectics. <i>Journal of Nuclear Materials</i> , 2008, 376, 371-374.	2.7	12
70	The surface tension of liquid aluminium-based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 495, 14-18.	5.6	52
71	Structure and electrical properties of liquid Sn, Sn _{0.962} Ag _{0.038} , Sn _{0.987} Cu _{0.013} , and Sn _{0.949} Ag _{0.038} Cu _{0.013} . <i>Inorganic Materials</i> , 2008, 44, 129-133.	0.8	2
72	Viscosity of Bi–Zn liquid alloys. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4415-4417.	3.1	20

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73	Microsegregation in liquid Pb-based eutectics. Journal of Non-Crystalline Solids, 2008, 354, 4443-4447.	3.1	17
74	Viscosity of liquid In-Se-Tl alloys in the miscibility gap region. Journal of Alloys and Compounds, 2008, 452, 174-177.	5.5	8
75	Investigation of the critical region in monotectic systems by viscosity measurements. Journal of Physics: Conference Series, 2008, 98, 022007.	0.4	3
76	Electrical conductivity of liquid Sn-Ti-Zr alloys. Journal of Physics: Conference Series, 2008, 98, 062008.	0.4	0
77	Semiconductor-metal transition in semiconductor melts with 3d metal admixtures. Journal of Physics: Conference Series, 2008, 98, 062003.	0.4	1
78	Thermophysical properties of Nd-, Er-, YNi-alloys. International Journal of Materials Research, 2008, 99, 261-264.	0.3	3
79	Melting-solidification process in Pb-Bi melts. Journal of Physics: Conference Series, 2007, 79, 012019.	0.4	5
80	Formation of atomic solution in liquid eutectic alloys. Journal of Non-Crystalline Solids, 2007, 353, 2982-2986.	3.1	1
81	Electrophysical and structural-sensitive properties of liquid In ₂ Te ₃ with 3d metal admixtures. Journal of Non-Crystalline Solids, 2007, 353, 3216-3219.	3.1	2
82	Experimental studies of phase equilibria in high-temperature ternary immiscible metallic melts. Journal of Non-Crystalline Solids, 2007, 353, 3310-3313.	3.1	6
83	Density and atomic volume in liquid Al-Fe and Al-Ni binary alloys. International Journal of Materials Research, 2007, 98, 107-111.	0.3	75
84	Viscosity and electrical conductivity of liquid Sn-Ti and Sn-Zr alloys. Journal of Materials Science, 2007, 42, 8618-8621.	3.7	10
85	Electrophysical Properties of Mg-Pb Based Liquid Alloys and Their Application. , 2006, , 73-78.		1
86	Liquid-liquid phase equilibrium in ternary immiscible In-Tl-Te melts. Journal of Molecular Liquids, 2006, 127, 33-36.	4.9	5
87	Electrical conductivity, thermoelectric power and viscosity of liquid Sn-based alloys. Journal of Materials Science, 2006, 41, 4632-4635.	3.7	43
88	The structural features of Cu _{1-x} Pb _x liquid alloys. Journal of Molecular Liquids, 2005, 120, 99-102.	4.9	0
89	Viscosity of liquid tellurium doped with 3D transition metals. Journal of Molecular Liquids, 2005, 120, 111-114.	4.9	8
90	Electronic Properties and Viscosity of Liquid Pb-Sn Alloys.. ChemInform, 2005, 36, no.	0.0	0

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91	Electronic properties and viscosity of liquid Pb–Sn alloys. Journal of Alloys and Compounds, 2005, 394, 63-68.	5.5	51
92	A modified steady state apparatus for thermal conductivity measurements of liquid metals and semiconductors. Measurement Science and Technology, 2005, 16, 467-471.	2.6	27
93	Electrical conductivity and thermoelectric power of liquid tellurium doped with 3d transition metals. Semiconductors, 2004, 38, 1365-1368.	0.5	3
94	Atomic structure and physical properties of liquid Pb–Bi alloys. Journal of Physics Condensed Matter, 2004, 16, 6335-6341.	1.8	19
95	Reverse metal–non-metal transition in semiconducting melts. Journal of Non-Crystalline Solids, 2004, 336, 59-63.	3.1	0
96	Structure rearrangement of the Cd _{1-x} Zn _x Te (0<x<0.1) melts. Journal of Alloys and Compounds, 2004, 371, 186-190.	5.5	13
97	Electrophysical and structural-sensitive properties of liquid te doped by 3d transition metals. Journal of Physical Studies, 2004, 8, 245-251.	0.5	0
98	Electrical Conductivity of Liquid Sb and Bi Doped with 3d Transition Metals. Inorganic Materials, 2003, 39, 811-815.	0.8	7
99	Experimental investigations of phase equilibrium in liquid immiscible Zn–Pb alloys. Journal of Molecular Liquids, 2003, 105, 215-219.	4.9	10
100	Investigation of Marangoni convection in monotectic melts by resistance measurements. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 361, 155-164.	5.6	22
101	Investigation of the miscibility gap region in liquid Ga–Pb alloys. International Journal of Materials Research, 2003, 94, 1034-1039.	0.8	17
102	Electronic properties and viscosity of liquid CdTe-based alloys. Journal of Physics Condensed Matter, 2002, 14, 5711-5718.	1.8	5
103	CdTe-Ge Melt Structure Rearrangement Study. Physica Status Solidi (B): Basic Research, 2002, 229, 165-169.	1.5	5
104	Electronic properties of liquid Tl ₂ Te, Tl ₂ Se, Ag ₂ Te, Cu ₂ Te, and Cu ₂ Se alloys. Semiconductors, 2002, 36, 1123-1127.	0.5	13
105	Transport Properties and Viscosity of Liquid CdTe Doped with In, Ge, and Sn. Inorganic Materials, 2002, 38, 1109-1114.	0.8	2
106	Thermophysical properties of liquid ternary chalcogenides. High Temperatures - High Pressures, 2002, 34, 29-34.	0.3	1
107	Electrophysical measurements for strongly aggressive liquid semiconductors. Measurement Science and Technology, 2001, 12, 23-26.	2.6	69
108	The influence of the ionic component of the electrical conductivity on the semiconductor–metal transition in liquid Tl–Se alloys. Journal of Alloys and Compounds, 2001, 327, 47-51.	5.5	2

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109	The miscibility gap region in liquid metal-chalcogen alloys. <i>Journal of Molecular Liquids</i> , 2001, 93, 225-228.	4.9	0
110	Nonmetal-Metal Transition in Liquid Cu-Based Alloys. <i>Zeitschrift Fur Physikalische Chemie</i> , 2001, 215, 103-109.	2.8	2
111	Dynamics of the pseudogap transformation in semiconducting melts during metallization. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 9179-9185.	1.8	1
112	The viscosity of liquid cadmium telluride. <i>Journal of Crystal Growth</i> , 2000, 212, 385-390.	1.5	14
113	Transformation of an electron spectrum in liquid ternary semiconductors. <i>Journal of Alloys and Compounds</i> , 2000, 312, 25-29.	5.5	4
114	Thermophysical properties of liquid ternary chalcogenides. <i>Journal of Physical Studies</i> , 2000, 4, 155-158.	0.5	1
115	Experimental Investigations of Phase Equilibria in Binary Liquid Immiscible Alloys. <i>International Journal of Thermophysics</i> , 1999, 20, 343-351.	2.1	2
116	Electrical conductivity measurements for immiscible In-Se-Te alloys. <i>Journal of Alloys and Compounds</i> , 1999, 288, 151-154.	5.5	7
117	Miscibility gap and liquid-liquid equilibrium in the system In-Tl-Se. <i>Journal of Phase Equilibria and Diffusion</i> , 1999, 20, 404-406.	0.3	1
118	The miscibility gap region in liquid ternary alloys. <i>Journal of Non-Crystalline Solids</i> , 1999, 250-252, 325-328.	3.1	6
119	The miscibility gap region and liquid-liquid equilibrium in immiscible In-Tl-Te alloys. <i>Journal of Alloys and Compounds</i> , 1998, 274, 206-208.	5.5	2
120	The miscibility gap region and properties of liquid ternary alloys. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 3343-3347.	1.8	6
121	Electrophysical properties of immiscible liquid conducting alloys. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1997, 94, 1811-1815.	0.2	1
122	Liquid-liquid equilibrium in immiscible In-Se alloys suffering metal-nonmetal transition. <i>Journal of Phase Equilibria and Diffusion</i> , 1996, 17, 414-417.	0.3	14
123	Electroconductivity and liquid-liquid equilibrium in the Pb _{1-x} Ga system. <i>Physica Status Solidi A</i> , 1995, 148, 123-128.	1.7	9