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List of Publications by Year
in descending order

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98	2,530	147801	223800
papers	citations	31 h-index	46 g-index

100	100	100	1610
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface tension of liquid metals and alloys â€" Recent developments. Advances in Colloid and Interface Science, 2010, 159, 198-212.	14.7	223
2	Thermophysical Properties of the Liquid Gaâ€"Inâ€"Sn Eutectic Alloy. Journal of Chemical & Engineering Data, 2014, 59, 757-763.	1.9	223
3	Wettability of zirconium diboride ceramics by Ag, Cu and their alloys with Zr. Scripta Materialia, 2003, 48, 191-196.	5.2	82
4	Surface and transport properties of Agâ€"Cu liquid alloys. Surface Science, 2005, 576, 175-187.	1.9	73
5	Thermophysical Properties of Î³-Titanium Aluminide: The European IMPRESS Project. International Journal of Thermophysics, 2007, 28, 1026-1036.	2.1	70
6	Surface tension and density of liquid Biâ€"Pb, Biâ€"Sn and Biâ€"Pbâ€"Sn eutectic alloys. Surface Science, 2011, 605, 1034-1042.	1.9	65
7	Wetting behaviour and reactivity of lead free Auâ€"Inâ€"Sn and Biâ€"Inâ€"Sn alloys on copper substrates. International Journal of Adhesion and Adhesives, 2007, 27, 409-416.	2.9	62
8	Wetting behaviour of lead-free Sn-based alloys on Cu and Ni substrates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 495, 108-112.	5.6	61
9	Liquid metal/ceramic interactions in the (Cu, Ag, Au)/ZrB2 systems. Journal of the European Ceramic Society, 2007, 27, 3277-3285.	5.7	56
10	Surface properties of Biâ€"Pb liquid alloys. Surface Science, 2002, 515, 377-389.	1.9	54
11	Experimental study of density, surface tension, and contact angle of Snâ€"Sb-based alloys for high temperature soldering. Journal of Materials Science, 2010, 45, 2051-2056.	3.7	52
12	Effects of Sb addition on the properties of Sn-Ag-Cu/(Cu, Ni) solder systems. Journal of Alloys and Compounds, 2016, 689, 918-930.	5.5	52
13	Surface tension and wetting behaviour of molten Cuâ€"Sn alloys. Journal of Alloys and Compounds, 2008, 452, 161-166.	5.5	50
14	Synthesis and melting behaviour of Bi, Sn and Snâ€"Bi nanostructured alloy. Journal of Alloys and Compounds, 2015, 623, 7-14.	5.5	49
15	Thermophysical Properties of Liquid AlTi-Based Alloys. International Journal of Thermophysics, 2010, 31, 949-965.	2.1	48
16	Wetting and Soldering Behavior of Eutectic Au-Ge Alloy on Cu and Ni Substrates. Journal of Electronic Materials, 2011, 40, 1533-1541.	2.2	48
17	Thermodynamic and surface properties of liquid Coâ€"Crâ€"Ni alloys. Journal of Chemical Thermodynamics, 2014, 69, 73-84.	2.0	44
18	Wetting and surface tension measurements on gold alloys. Gold Bulletin, 2001, 34, 41-49.	2.7	42

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19	Bulk and surface properties of liquid Xâ€“Zr (X=Ag, Cu) compound forming alloys. Surface Science, 2004, 549, 281-293.	1.9	42
20	Towards optimization of SiC/CoSi2 composite material manufacture via reactive infiltration: Wetting study of Siâ€“Co alloys on carbon materials. Journal of the European Ceramic Society, 2015, 35, 4099-4106.	5.7	42
21	Thermodynamics, surface properties and microscopic functions of liquid Alâ€“Nb and Nbâ€“Ti alloys. Journal of Non-Crystalline Solids, 2010, 356, 1593-1598.	3.1	41
22	Surface tension of Î³-TiAl-based alloys. Journal of Materials Science, 2010, 45, 1993-2001.	3.7	40
23	On the application of modelling to study the surface and interfacial phenomena in liquid alloyâ€“ceramic substrate systems. Intermetallics, 2003, 11, 1301-1311.	3.9	38
24	Surface tension of liquid Cuâ€“Ti binary alloys measured by electromagnetic levitation and thermodynamic modelling. Applied Surface Science, 2011, 257, 7739-7745.	6.1	37
25	Bulk and surface properties of Alâ€“Co and Coâ€“Ni liquid alloys. Physica B: Condensed Matter, 2006, 371, 223-231.	2.7	36
26	Synthesis and thermodynamics of Agâ€“Cu nanoparticles. Physical Chemistry Chemical Physics, 2015, 17, 28387-28393.	2.8	36
27	Surface and transport properties of Auâ€“Sn liquid alloys. Surface Science, 2005, 599, 230-247.	1.9	35
28	Surface and transport properties of Inâ€“Sn liquid alloys. Surface Science, 2008, 602, 1957-1963.	1.9	34
29	Thermodynamics and surface properties of liquid Ga-X (X = Sn, Zn) alloys. Journal of Materials Science, 2005, 40, 2251-2257.	3.7	33
30	Precise Measurements of Thermophysical Properties of Liquid Tiâ€“6Alâ€“4V (Ti64) Alloy On Board the International Space Station. Advanced Engineering Materials, 2020, 22, 2000169.	3.5	33
31	Bulk and surface properties of liquid Sbâ€“Sn alloys. Surface Science, 2011, 605, 248-255.	1.9	32
32	Interfacial reactions in the Sbâ€“Sn/(Cu, Ni) systems: Wetting experiments. Materials Chemistry and Physics, 2012, 137, 458-465.	4.0	32
33	Surface tension and wetting behaviour of molten Biâ€“Pb alloys. Intermetallics, 2003, 11, 1313-1317.	3.9	31
34	Bulk and surface properties of liquid Agâ€“X (X=Ti, Hf) compound forming alloys. Surface Science, 2005, 591, 56-69.	1.9	30
35	Density, Surface Tension, and Viscosity of CMSX-4Â® Superalloy. International Journal of Thermophysics, 2007, 28, 1304-1321.	2.1	29
36	Surface Tension and Density of Alâ˜Ni Alloys. Journal of Chemical & Engineering Data, 2010, 55, 3024-3028.	1.9	29

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37	Chemical ordering in magic-size Agâ€“Pd nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 26478-26484.	2.8	28
38	Surface, dynamic and structural properties of liquid Alâ€“Ti alloys. Applied Surface Science, 2012, 258, 3269-3275.	6.1	25
39	Multiscale approach for studying melting transitions in CuPt nanoparticles. Physical Chemistry Chemical Physics, 2015, 17, 28364-28371.	2.8	25
40	Surface Tension of Molten Cuâ^'Sn Alloys under Different Oxygen Containing Atmospheres. Journal of Chemical & Engineering Data, 2009, 54, 1660-1665.	1.9	23
41	Surface Tension of Liquid Agâ€“Cu Binary Alloys. ISIJ International, 2014, 54, 2115-2119.	1.4	21
42	Thermodynamic, surface and structural properties of liquid Co-Si alloys. Journal of Molecular Liquids, 2016, 221, 346-353.	4.9	21
43	Design of refractory SiC/ZrSi2 composites: Wettability and spreading behavior of liquid Si-10Zr alloy in contact with SiC at high temperatures. Journal of the European Ceramic Society, 2020, 40, 953-960.	5.7	19
44	Thermodynamics and surface properties of liquid Biâ€“In alloys. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 69-75.	1.6	18
45	Corrosion behaviour of 12Cr-ODS steel in molten lead. Nuclear Engineering and Design, 2014, 280, 69-75.	1.7	18
46	Thermodynamic and surface properties of liquid Geâ€“Si alloys. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 44, 95-101.	1.6	17
47	Surface and transport properties of Auâ€“In liquid alloys. Surface Science, 2006, 600, 5051-5061.	1.9	15
48	Comparative thermodynamic study and phase equilibria of the Biâ€“Gaâ€“Sn ternary system. International Journal of Materials Research, 2007, 98, 1025-1030.	0.3	15
49	Thermophysical properties of some Ni-based superalloys in the liquid state relevant for solidification processing. Journal of Materials Science, 2016, 51, 1680-1691.	3.7	15
50	Surface Properties of Liquid Al-Ni Alloys: Experiments Vs Theory. Microgravity Science and Technology, 2020, 32, 1049-1064.	1.4	15
51	Synthesis, characterization and thermal stability of SnAg and SnAgCu nanoparticles. Journal of Alloys and Compounds, 2018, 747, 385-393.	5.5	13
52	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
53	Surface tension modelling of liquid Cdâ€“Snâ€“Zn alloys. Philosophical Magazine, 2018, 98, 1608-1624.	1.6	12
54	Surface and transport properties of Niâ€“Ti liquid alloys. Journal of Alloys and Compounds, 2008, 452, 167-173.	5.5	11

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55	Surface tension and density of Si-Ge melts. Journal of Chemical Physics, 2014, 140, 214704.	3.0	11
56	Thermodynamics, thermophysical and structural properties of liquid Feâ€“Cr alloys. Journal of Molecular Liquids, 2014, 200, 153-159.	4.9	11
57	Thermodynamics and surface properties of liquid Cuâ€“B alloys. Surface Science, 2009, 603, 2725-2733.	1.9	10
58	Wetting and Spreading Behavior of Liquid Si-Ti Eutectic Alloy in Contact with Glassy Carbon and SiC at T = 1450 Â°C. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4814-4826.	2.2	10
59	New Insights into Phase Equilibria of the Sb-Sn System. Journal of Phase Equilibria and Diffusion, 2021, 42, 63-76.	1.4	10
60	Surface and transport properties of Cu-Sn-Ti liquid alloys. Rare Metals, 2006, 25, 457-468.	7.1	9
61	Bulk and surface properties of liquid Alâ€“Cr and Crâ€“Ni alloys. Journal of Physics Condensed Matter, 2011, 23, 235107.	1.8	9
62	Wetting behavior and reactivity of liquid Si-10Zr alloy in contact with glassy carbon. Journal of Alloys and Compounds, 2020, 822, 153643.	5.5	9
63	Surface tension measurements of Al-Ni based alloys from ground-based and parabolic flight experiments: Results from the thermolab project. Microgravity Science and Technology, 2006, 18, 73-76.	1.4	8
64	Surface properties and wetting characteristics of liquid Agâ€“Biâ€“Sn alloys. Monatshefte FÃ¼r Chemie, 2012, 143, 1249-1254.	1.8	8
65	Surface tension and density of RENE N5Â® and RENE 90Â® Ni-based superalloys. Journal of Materials Science, 2015, 50, 3763-3771.	3.7	8
66	Corrosion behaviour of oxide dispersion strengthened ironâ€chromium steels in liquid lead at 973â€‰K. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 1584-1596.	1.5	7
67	Studying the Wettability and Reactivity of Liquid Si-Ti Eutectic Alloy on Glassy Carbon. Journal of Materials Engineering and Performance, 2019, 28, 3460-3467.	2.5	7
68	Investigation of high temperature behavior of AlSi10Mg produced by selective laser melting. Materials Chemistry and Physics, 2021, 259, 123975.	4.0	7
69	Experimental study on gallium activity in the liquid Ga-Bi-Sn alloys using the EMF method with zirconia solid electrolyte. International Journal of Materials Research, 2008, 99, 1330-1335.	0.3	6
70	Surface and transport properties of liquid Agâ€“Sn alloys and a case study of Agâ€“Sn eutectic solder. Journal of Materials Science: Materials in Electronics, 2018, 29, 17108-17121.	2.2	6
71	Thermodynamic investigation on the Mgâ€“Pd intermetallic phases. Journal of Chemical Thermodynamics, 2019, 139, 105890.	2.0	6
72	Surface and transport properties of liquid Biâ€“Sn alloys. Journal of Materials Science: Materials in Electronics, 2020, 31, 5533-5545.	2.2	6

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73	Liquid metals: Thermophysical properties of alloys from the Ga-Sn-Zn system. Journal of Molecular Liquids, 2021, 343, 117646.	4.9	6
74	Thermophysical Properties of Ni-Based Superalloys. Minerals, Metals and Materials Series, 2022, , 315-355.	0.4	6
75	Effect of weak uniaxial loads on creep strain rate in high-porosity MgO compacts during early sintering stages. Journal of Materials Science, 1995, 30, 4994-5001.	3.7	5
76	Experimental thermodynamics, surface and transport properties of liquid Ag-Ge alloys. Thermochimica Acta, 2019, 682, 178432.	2.7	5
77	Design of Composites by Infiltration Process: A Case Study of Liquid Ir-Si Alloy/SiC Systems. Materials, 2021, 14, 6024.	2.9	5
78	Molar volume calculation of Gaâ€“Biâ€“X (X=Sn, In) liquid alloys using the general solution model. International Journal of Materials Research, 2010, 101, 1432-1435.	0.3	4
79	Surface and bulk characterization of molten In and In-Sn alloys. EPJ Web of Conferences, 2011, 15, 01007.	0.3	4
80	Design of Ag-Ge-Zn braze/solder alloys: Experimental thermodynamics and surface properties. Journal of Mining and Metallurgy, Section B: Metallurgy, 2017, 53, 295-302.	0.8	4
81	Oxygen adsorption of molten Ag Cu eutectic alloy and its associated surface modification. Journal of Molecular Liquids, 2020, 319, 114294.	4.9	4
82	Random-Walk Aggregation Phenomena in Solid Bimodal Liquid Dispersions: Transition to Nondeterminism from Si3N4to Si3N4+ Al2O3Aqueous Systems. Journal of Colloid and Interface Science, 1997, 190, 294-301.	9.4	3
83	Surface Properties of Ag-Cu-Zr Liquid Alloys in Relation to the Wettability of Boride Ceramics. Materials Science Forum, 2006, 512, 211-216.	0.3	3
84	Wetting Behavior of Ternary Au-Ge-X (XÂ=ÂSb, Sn) Alloys on Cu and Ni. Journal of Electronic Materials, 2013, 42, 1024-1032.	2.2	3
85	Bulk and Surface Properties of Liquid Cr-Nb-Re Alloys. Journal of Phase Equilibria and Diffusion, 2014, 35, 445-457.	1.4	3
86	Evaluation of Corrosion Phenomena of T91 Steel in Stagnant Liquid Lead at High Operational Temperatures. Corrosion, 2020, 76, .	1.1	3
87	Studies of the Joining-Relevant Interfacial Properties in the Si-Ti/C and Si-Ti/SiC Systems. Journal of Materials Engineering and Performance, 2020, 29, 4864-4871.	2.5	3
88	Advanced Ceramics for Use in Highly Oxidizing and Corrosive Environments: Silicides. Key Engineering Materials, 2001, 201, 183-217.	0.4	2
89	Advanced Ceramics for Use in Highly Oxidizing and Corrosive Environments: Siliconised Silicon Carbide. Key Engineering Materials, 2001, 201, 141-182.	0.4	2
90	Precise Measurements of Thermophysical Properties of Liquid Tiâ€“6Alâ€“4V (Ti64) Alloy On Board the International Space Station. Advanced Engineering Materials, 2020, 22, 2000733.	3.5	2

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91	Thermophysical Properties of Fe-Si and Cu-Pb Melts and Their Effects on Solidification Related Processes. Metals, 2022, 12, 336.	2.3	2
92	Grain growth in sintering of clustered powder compacts. Journal of Materials Science, 2000, 35, 6005-6013.	3.7	1
93	Advanced Ceramics for Use in Highly Oxidizing and Corrosive Environments: Ceramics - General View. Key Engineering Materials, 2001, 201, 1-49.	0.4	1
94	Experimental Thermodynamics and Surface Properties of Ag-Cu-Ge Solder/Braze Alloys. Journal of Phase Equilibria and Diffusion, 2019, 40, 115-125.	1.4	1
95	Interface Design in Lightweight SiC/TiSi2 Composites Fabricated by Reactive Infiltration Process: Interaction Phenomena between Liquid Si-Rich Si-Ti Alloys and Glassy Carbon. Materials, 2021, 14, 3746.	2.9	1
96	Advanced Ceramics for Use in Highly Oxidizing and Corrosive Environments: References. Key Engineering Materials, 2001, 201, 218-0.	0.4	0
97	Advanced Ceramics for Use in Highly Oxidizing and Corrosive Environments: Mullite. Key Engineering Materials, 2001, 201, 92-140.	0.4	0
98	TOFA 2012 Special Issue. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 44, 1-2.	1.6	0