

# Rada Novakovic

## List of Publications by Year in descending order

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98  
papers

2,530  
citations

147801

31  
h-index

223800

46  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1610  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermophysical Properties of Ni-Based Superalloys. Minerals, Metals and Materials Series, 2022, , 315-355.	0.4	6
2	Thermophysical Properties of Fe-Si and Cu-Pb Melts and Their Effects on Solidification Related Processes. Metals, 2022, 12, 336.	2.3	2
3	Investigation of high temperature behavior of AlSi10Mg produced by selective laser melting. Materials Chemistry and Physics, 2021, 259, 123975.	4.0	7
4	New Insights into Phase Equilibria of the Sb-Sn System. Journal of Phase Equilibria and Diffusion, 2021, 42, 63-76.	1.4	10
5	Interface Design in Lightweight SiC/TiSi <sub>2</sub> 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
6	Liquid metals: Thermophysical properties of alloys from the Ga-Sn-Zn system. Journal of Molecular Liquids, 2021, 343, 117646.	4.9	6
7	Design of Composites by Infiltration Process: A Case Study of Liquid Ir-Si Alloy/SiC Systems. Materials, 2021, 14, 6024.	2.9	5
8	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
9	Design of refractory SiC/ZrSi <sub>2</sub> 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
10	Surface Properties of Liquid Al-Ni Alloys: Experiments Vs Theory. Microgravity Science and Technology, 2020, 32, 1049-1064.	1.4	15
11	Evaluation of Corrosion Phenomena of T91 Steel in Stagnant Liquid Lead at High Operational Temperatures. Corrosion, 2020, 76, .	1.1	3
12	Precise Measurements of Thermophysical Properties of Liquid Ti-6Al-4V (Ti64) Alloy On Board the International Space Station. Advanced Engineering Materials, 2020, 22, 2000733.	3.5	2
13	Precise Measurements of Thermophysical Properties of Liquid Ti-6Al-4V (Ti64) Alloy On Board the International Space Station. Advanced Engineering Materials, 2020, 22, 2000169.	3.5	33
14	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
15	Surface and transport properties of liquid Bi-Sn alloys. Journal of Materials Science: Materials in Electronics, 2020, 31, 5533-5545.	2.2	6
16	Oxygen adsorption of molten Ag-Cu eutectic alloy and its associated surface modification. Journal of Molecular Liquids, 2020, 319, 114294.	4.9	4
17	Thermodynamic investigation on the Mg-Pd intermetallic phases. Journal of Chemical Thermodynamics, 2019, 139, 105890.	2.0	6
18	Wetting and Spreading Behavior of Liquid Si-Ti Eutectic Alloy in Contact with Glassy Carbon and SiC at T = 1450 Å°C. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4814-4826.	2.2	10

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19	Experimental thermodynamics, surface and transport properties of liquid Ag-Ge alloys. <i>Thermochimica Acta</i> , 2019, 682, 178432.	2.7	5
20	Experimental Thermodynamics and Surface Properties of Ag-Cu-Ge Solder/Braze Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , 2019, 40, 115-125.	1.4	1
21	Studying the Wettability and Reactivity of Liquid Si-Ti Eutectic Alloy on Glassy Carbon. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 3460-3467.	2.5	7
22	Synthesis, characterization and thermal stability of SnAg and SnAgCu nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 747, 385-393.	5.5	13
23	Surface tension modelling of liquid Cd-Sn-Zn alloys. <i>Philosophical Magazine</i> , 2018, 98, 1608-1624.	1.6	12
24	Surface and transport properties of liquid Ag-Sn alloys and a case study of Ag-Sn eutectic solder. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 17108-17121.	2.2	6
25	Corrosion behaviour of oxide dispersion strengthened iron-chromium steels in liquid lead at 973%K. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 1584-1596.	1.5	7
26	Design of Ag-Ge-Zn braze/solder alloys: Experimental thermodynamics and surface properties. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2017, 53, 295-302.	0.8	4
27	Effects of Sb addition on the properties of Sn-Ag-Cu/(Cu, Ni) solder systems. <i>Journal of Alloys and Compounds</i> , 2016, 689, 918-930.	5.5	52
28	Thermodynamic, surface and structural properties of liquid Co-Si alloys. <i>Journal of Molecular Liquids</i> , 2016, 221, 346-353.	4.9	21
29	Thermophysical properties of some Ni-based superalloys in the liquid state relevant for solidification processing. <i>Journal of Materials Science</i> , 2016, 51, 1680-1691.	3.7	15
30	Synthesis and thermodynamics of Ag-Cu nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28387-28393.	2.8	36
31	Surface tension and density of RENE N5® and RENE 90® Ni-based superalloys. <i>Journal of Materials Science</i> , 2015, 50, 3763-3771.	3.7	8
32	Multiscale approach for studying melting transitions in CuPt nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28364-28371.	2.8	25
33	Towards optimization of SiC/CoSi <sub>2</sub> composite material manufacture via reactive infiltration: Wetting study of Si-Co alloys on carbon materials. <i>Journal of the European Ceramic Society</i> , 2015, 35, 4099-4106.	5.7	42
34	Synthesis and melting behaviour of Bi, Sn and Sn-Bi nanostructured alloy. <i>Journal of Alloys and Compounds</i> , 2015, 623, 7-14.	5.5	49
35	Surface Tension of Liquid Ag-Cu Binary Alloys. <i>ISIJ International</i> , 2014, 54, 2115-2119.	1.4	21
36	Corrosion behaviour of 12Cr-ODS steel in molten lead. <i>Nuclear Engineering and Design</i> , 2014, 280, 69-75.	1.7	18

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37	Surface tension and density of Si-Ge melts. <i>Journal of Chemical Physics</i> , 2014, 140, 214704.	3.0	11
38	Thermodynamics, thermophysical and structural properties of liquid Fe-Cr alloys. <i>Journal of Molecular Liquids</i> , 2014, 200, 153-159.	4.9	11
39	Thermodynamic and surface properties of liquid Co-Cr-Ni alloys. <i>Journal of Chemical Thermodynamics</i> , 2014, 69, 73-84.	2.0	44
40	Thermophysical Properties of the Liquid Ga-In-Sn Eutectic Alloy. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 757-763.	1.9	223
41	Bulk and Surface Properties of Liquid Cr-Nb-Re Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , 2014, 35, 445-457.	1.4	3
42	Chemical ordering in magic-size Ag-Pd nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26478-26484.	2.8	28
43	Thermodynamic and surface properties of liquid Ge-Si alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2014, 44, 95-101.	1.6	17
44	TOFA 2012 Special Issue. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2014, 44, 1-2.	1.6	0
45	Wetting Behavior of Ternary Au-Ge-X (X=Sb, Sn) Alloys on Cu and Ni. <i>Journal of Electronic Materials</i> , 2013, 42, 1024-1032.	2.2	3
46	Surface properties and wetting behavior of liquid Ag-Sb-Sn alloys. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2012, 48, 443-448.	0.8	12
47	Surface properties and wetting characteristics of liquid Ag-Bi-Sn alloys. <i>Monatshefte für Chemie</i> , 2012, 143, 1249-1254.	1.8	8
48	Surface, dynamic and structural properties of liquid Al-Ti alloys. <i>Applied Surface Science</i> , 2012, 258, 3269-3275.	6.1	25
49	Interfacial reactions in the Sb-Sn/(Cu, Ni) systems: Wetting experiments. <i>Materials Chemistry and Physics</i> , 2012, 137, 458-465.	4.0	32
50	Bulk and surface properties of liquid Al-Cr and Cr-Ni alloys. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 235107.	1.8	9
51	Surface and bulk characterization of molten In and In-Sn alloys. <i>EPJ Web of Conferences</i> , 2011, 15, 01007.	0.3	4
52	Wetting and Soldering Behavior of Eutectic Au-Ge Alloy on Cu and Ni Substrates. <i>Journal of Electronic Materials</i> , 2011, 40, 1533-1541.	2.2	48
53	Surface tension of liquid Cu-Ti binary alloys measured by electromagnetic levitation and thermodynamic modelling. <i>Applied Surface Science</i> , 2011, 257, 7739-7745.	6.1	37
54	Bulk and surface properties of liquid Sb-Sn alloys. <i>Surface Science</i> , 2011, 605, 248-255.	1.9	32

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55	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
56	Thermophysical Properties of Liquid AlTi-Based Alloys. <i>International Journal of Thermophysics</i> , 2010, 31, 949-965.	2.1	48
57	Surface tension of $\beta$ -TiAl-based alloys. <i>Journal of Materials Science</i> , 2010, 45, 1993-2001.	3.7	40
58	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
59	Surface tension of liquid metals and alloys – Recent developments. <i>Advances in Colloid and Interface Science</i> , 2010, 159, 198-212.	14.7	223
60	Molar volume calculation of Ga-Bi ( $X=Sn, In$ ) liquid alloys using the general solution model. <i>International Journal of Materials Research</i> , 2010, 101, 1432-1435.	0.3	4
61	Thermodynamics, surface properties and microscopic functions of liquid Al-Nb and Nb-Ti alloys. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1593-1598.	3.1	41
62	Surface Tension and Density of Al-Ni Alloys. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 3024-3028.	1.9	29
63	Thermodynamics and surface properties of liquid Cu-B alloys. <i>Surface Science</i> , 2009, 603, 2725-2733.	1.9	10
64	Thermodynamics and surface properties of liquid Bi-In alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2009, 33, 69-75.	1.6	18
65	Surface Tension of Molten Cu-Sn Alloys under Different Oxygen Containing Atmospheres. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 1660-1665.	1.9	23
66	Surface and transport properties of In-Sn liquid alloys. <i>Surface Science</i> , 2008, 602, 1957-1963.	1.9	34
67	Wetting behaviour of lead-free Sn-based alloys on Cu and Ni substrates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 495, 108-112.	5.6	61
68	Surface and transport properties of Ni-Ti liquid alloys. <i>Journal of Alloys and Compounds</i> , 2008, 452, 167-173.	5.5	11
69	Surface tension and wetting behaviour of molten Cu-Sn alloys. <i>Journal of Alloys and Compounds</i> , 2008, 452, 161-166.	5.5	50
70	Experimental study on gallium activity in the liquid Ga-Bi-Sn alloys using the EMF method with zirconia solid electrolyte. <i>International Journal of Materials Research</i> , 2008, 99, 1330-1335.	0.3	6
71	Comparative thermodynamic study and phase equilibria of the Bi-Ga-Sn ternary system. <i>International Journal of Materials Research</i> , 2007, 98, 1025-1030.	0.3	15
72	Liquid metal/ceramic interactions in the (Cu, Ag, Au)/ZrO <sub>2</sub> systems. <i>Journal of the European Ceramic Society</i> , 2007, 27, 3277-3285.	5.7	56

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73	Thermophysical Properties of $\hat{\text{T}}^3$ -Titanium Aluminide: The European IMPRESS Project. International Journal of Thermophysics, 2007, 28, 1026-1036.	2.1	70
74	Density, Surface Tension, and Viscosity of CMSX-4 <sup>®</sup> Superalloy. International Journal of Thermophysics, 2007, 28, 1304-1321.	2.1	29
75	Wetting behaviour and reactivity of lead free Au $\hat{\text{I}}$ Sn and Bi $\hat{\text{I}}$ Sn alloys on copper substrates. International Journal of Adhesion and Adhesives, 2007, 27, 409-416.	2.9	62
76	Surface and transport properties of Cu-Sn-Ti liquid alloys. Rare Metals, 2006, 25, 457-468.	7.1	9
77	Bulk and surface properties of Al $\hat{\text{I}}$ Co and Co $\hat{\text{I}}$ Ni liquid alloys. Physica B: Condensed Matter, 2006, 371, 223-231.	2.7	36
78	Surface and transport properties of Au $\hat{\text{I}}$ In liquid alloys. Surface Science, 2006, 600, 5051-5061.	1.9	15
79	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
80	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
81	Bulk and surface properties of liquid Ag $\hat{\text{I}}$ X (X=Ti, Hf) compound forming alloys. Surface Science, 2005, 591, 56-69.	1.9	30
82	Surface and transport properties of Au $\hat{\text{I}}$ Sn liquid alloys. Surface Science, 2005, 599, 230-247.	1.9	35
83	Surface and transport properties of Ag $\hat{\text{I}}$ Cu liquid alloys. Surface Science, 2005, 576, 175-187.	1.9	73
84	Thermodynamics and surface properties of liquid Ga-X (X = Sn, Zn) alloys. Journal of Materials Science, 2005, 40, 2251-2257.	3.7	33
85	Bulk and surface properties of liquid X $\hat{\text{I}}$ Zr (X=Ag, Cu) compound forming alloys. Surface Science, 2004, 549, 281-293.	1.9	42
86	Wettability of zirconium diboride ceramics by Ag, Cu and their alloys with Zr. Scripta Materialia, 2003, 48, 191-196.	5.2	82
87	On the application of modelling to study the surface and interfacial phenomena in liquid alloy $\hat{\text{I}}$ ceramic substrate systems. Intermetallics, 2003, 11, 1301-1311.	3.9	38
88	Surface tension and wetting behaviour of molten Bi $\hat{\text{I}}$ Pb alloys. Intermetallics, 2003, 11, 1313-1317.	3.9	31
89	Surface properties of Bi $\hat{\text{I}}$ Pb liquid alloys. Surface Science, 2002, 515, 377-389.	1.9	54
90	Advanced Ceramics for Use in Highly Oxidizing and Corrosive Environments: Ceramics - General View. Key Engineering Materials, 2001, 201, 1-49.	0.4	1

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91	Advanced Ceramics for Use in Highly Oxidizing and Corrosive Environments: Silicides. Key Engineering Materials, 2001, 201, 183-217.	0.4	2
92	Wetting and surface tension measurements on gold alloys. Gold Bulletin, 2001, 34, 41-49.	2.7	42
93	Advanced Ceramics for Use in Highly Oxidizing and Corrosive Environments: References. Key Engineering Materials, 2001, 201, 218-0.	0.4	0
94	Advanced Ceramics for Use in Highly Oxidizing and Corrosive Environments: Siliconised Silicon Carbide. Key Engineering Materials, 2001, 201, 141-182.	0.4	2
95	Advanced Ceramics for Use in Highly Oxidizing and Corrosive Environments: Mullite. Key Engineering Materials, 2001, 201, 92-140.	0.4	0
96	Grain growth in sintering of clustered powder compacts. Journal of Materials Science, 2000, 35, 6005-6013.	3.7	1
97	Random-Walk Aggregation Phenomena in Solid Bimodal Liquid Dispersions: Transition to Nondeterminism from Si <sub>3</sub> N <sub>4</sub> to Si <sub>3</sub> N <sub>4</sub> + Al <sub>2</sub> O <sub>3</sub> Aqueous Systems. Journal of Colloid and Interface Science, 1997, 190, 294-301.	9.4	3
98	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