

R N Singh

List of Publications by Year in descending order

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61
papers

1,672
citations

279798

23
h-index

289244

40
g-index

61
all docs

61
docs citations

61
times ranked

336
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-range order and concentration fluctuations in binary molten alloys. Canadian Journal of Physics, 1987, 65, 309-325.	1.1	211
2	Segregation and immiscibility in liquid binary alloys. Reports on Progress in Physics, 1997, 60, 57-150.	20.1	207
3	Short Range Order and Concentration Fluctuations in Regular and Compound Forming Molten Alloys. Physics and Chemistry of Liquids, 1982, 11, 285-313.	1.2	100
4	A Quasi-lattice Theory for Compound Forming Molten Alloys. Physics and Chemistry of Liquids, 1984, 13, 177-190.	1.2	86
5	Phonon dispersion in metallic glasses: A simple model. Physical Review B, 1985, 31, 4751-4758.	3.2	86
6	Surface segregation and concentration fluctuations at the liquid-vapor interface of molten Cu-Ni alloys. Physical Review B, 1991, 44, 13768-13771.	3.2	72
7	Correlation between Bulk and Surface Properties of AgSn Liquid Alloys. Journal of Physical Chemistry B, 1998, 102, 921-926.	2.6	63
8	Thermodynamic Properties of Compound Forming Molten Alloys in a Weak Interaction Approximation. Physics and Chemistry of Liquids, 1982, 11, 343-351.	1.2	61
9	Thermodynamic Investigation of Viscosity and Diffusion in Binary Liquid Alloys. Physics and Chemistry of Liquids, 1998, 36, 17-28.	1.2	59
10	Temperature dependence of the thermodynamic functions of strongly interacting liquid alloys. Journal of Physics Condensed Matter, 1992, 4, 5345-5358.	1.8	51
11	The Role of Size Effects on Surface Properties. Physics and Chemistry of Liquids, 1994, 27, 179-185.	1.2	51
12	Competence and Deoxyribonucleic Acid Uptake in <i>Bacillus subtilis</i> . Journal of Bacteriology, 1968, 95, 864-866.	2.2	48
13	Stability of HgNa and HgK liquid alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 61, 15-24.	0.6	37
14	Enrichment of <i>Bacillus subtilis</i> Transformants by Zonal Centrifugation. Nature, 1967, 213, 1262-1263.	27.8	30
15	Conditional Probabilities and Thermodynamics of Binary. Physics and Chemistry of Liquids, 1988, 18, 303-319.	1.2	30
16	Temperature-dependent structure and electrical transport in liquid metals. Journal of Physics Condensed Matter, 1989, 1, 1695-1705.	1.8	30
17	Number of Deoxyribonucleic Acid Uptake Sites in Competent Cells of <i>Bacillus subtilis</i> . Journal of Bacteriology, 1972, 110, 266-272.	2.2	27
18	Local order in Cd-based liquid alloys. Journal of Physics Condensed Matter, 1990, 2, 8457-8462.	1.8	26

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19	Thermodynamics of liquid Mg-Sn alloys. Journal of Physics Condensed Matter, 1993, 5, 2469-2478.	1.8	26
20	Free energy and heat of mixing of alloys. Journal of Physics F: Metal Physics, 1981, 11, 389-396.	1.6	25
21	Flory's formula for the entropy of mixing of NaCs alloy. Journal of Physics F: Metal Physics, 1984, 14, 2309-2314.	1.6	25
22	Description of concentration fluctuations in liquid binary mixtures with nonadditive potentials. Physical Review E, 1995, 51, 332-338.	2.1	25
23	Harmonic model potential for simple metals. Journal of Physics F: Metal Physics, 1976, 6, 1819-1826.	1.6	24
24	Heat of mixing of equiatomic alkali-alkali alloys. Journal of Physics F: Metal Physics, 1980, 10, 1411-1417.	1.6	24
25	A Quasi-lattice Model for the Thermodynamic Properties of Au-Zn Liquid Alloys. Physics and Chemistry of Liquids, 1990, 22, 1-9.	1.2	24
26	Thermodynamic investigation of atomic order in AlMg liquid alloys. Journal of Physics Condensed Matter, 1991, 3, 3635-3644.	1.8	16
27	Higher Order Conditional Probabilities And Short Range Order in Molten Alloys. Physics and Chemistry of Liquids, 1993, 25, 251-267.	1.2	16
28	The segregation-order transformation in CdNa liquid alloy. Journal of Physics Condensed Matter, 1991, 3, 2787-2793.	1.8	15
29	Specific heat ratio, Gr ^{1/4} neisen parameter and Debye temperature of crude oil. Journal Physics D: Applied Physics, 2006, 39, 1220-1225.	2.8	15
30	Entropies of molten alloys. Journal of Physics F: Metal Physics, 1981, 11, 1577-1583.	1.6	14
31	LIQUID-VAPOUR EQUILIBRIUM WITH DOUBLE YUKAWA POTENTIAL. International Journal of Modern Physics B, 1999, 13, 3261-3281.	2.0	14
32	Phonon frequency, electrical resistivity, and interionic pair potential of Li. Physica Status Solidi (B): Basic Research, 1977, 83, 651-657.	1.5	12
33	CORRELATION BETWEEN BULK AND SURFACE PHENOMENA IN Ga-(Bi,In) AND In-Bi LIQUID ALLOYS. International Journal of Modern Physics B, 2001, 15, 3039-3053.	2.0	12
34	Effect of Core-Ion Potentials on Thermodynamic Properties of Liquid Alkali Metals and Alloys. Physics and Chemistry of Liquids, 1994, 27, 203-214.	1.2	11
35	Thermodynamic and Structural Interpretations of the Undercooled Liquid Metals. Physics and Chemistry of Liquids, 1994, 28, 129-140.	1.2	11
36	A perturbation scheme for a binary liquid mixture of hard cores with attractive tail. Molecular Physics, 1999, 96, 87-99.	1.7	10

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37	Thermodynamic properties of He-H ₂ fluid mixtures over a wide range of temperatures and pressures. <i>Physical Review E</i> , 2004, 69, 056104.	2.1	10
38	Small-angle structure and atomic order in Ge- and Si-based liquid alloys. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 8745-8750.	1.8	7
39	Pseudopotential Method for the Thermodynamic Properties of Liquid Alkali Metals. <i>Physics and Chemistry of Liquids</i> , 1991, 22, 235-243.	1.2	7
40	Electrical and thermodynamic properties of HgNa and HgK liquid alloys. <i>Physica Status Solidi A</i> , 1994, 144, 335-342.	1.7	7
41	Equation of state of crude oil through temperature dependent ultrasonic measurements. <i>Journal of Geophysics and Engineering</i> , 2006, 3, 307-313.	1.4	7
42	Electrical Resistivity and Thermodynamic Properties of Alkali-Alkali Liquid Binary Alloys. <i>Physics and Chemistry of Liquids</i> , 1993, 25, 153-168.	1.2	5
43	A correlation between surface, transport and thermo-elastic properties of liquid hydrocarbon: an experimental investigation. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 3691-3701.	1.8	5
44	Structure and Electrical Resistivity of Liquid Alkali Alloys. <i>Physics and Chemistry of Liquids</i> , 1991, 23, 211-223.	1.2	4
45	Non Arrhenius Behaviour in Demixing Liquid Alloys. <i>Physics and Chemistry of Liquids</i> , 1995, 29, 191-195.	1.2	4
46	Liquid electrical resistivity of alkali metals: Exchange and correlation effects. <i>Physica Status Solidi (B): Basic Research</i> , 1976, 78, K45.	1.5	3
47	Excess Entropy of Mixing of Equiatomic Binary Molten Alloys. <i>Physics and Chemistry of Liquids</i> , 1988, 18, 151-163.	1.2	3
48	Mixing and phase separation in molecular fluid mixtures. <i>Molecular Physics</i> , 2003, 101, 3239-3247.	1.7	3
49	Thermo-elastic and thermodynamic properties of light and heavy crude oil. <i>Physics and Chemistry of Liquids</i> , 2008, 46, 328-341.	1.2	3
50	Structure-induced order-disorder transformation in Cd-Na liquid alloys. <i>International Journal of Materials Research</i> , 2006, 97, 382-387.	0.3	2
51	Phase diagram and thermodynamic properties of H_2 . <i>Physical Review E</i> , 2013, 87, 012122.	2.1	2
52	Visco-elastic and Dielectric Relaxation Studies of Crude Oil. <i>Petroleum Science and Technology</i> , 2014, 32, 889-896.	1.5	2
53	A perturbation scheme for a binary liquid mixture of hard cores with attractive tail. <i>Molecular Physics</i> , 1999, 96, 87-99.	1.7	2
54	Model Potential Calculation of Binding Energy and Compressibility of Alkali Metals. <i>Physica Status Solidi (B): Basic Research</i> , 1978, 89, K13.	1.5	1

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55	Chemical and Topological Order in the Vicinity of Phase Separation. Physics and Chemistry of Liquids, 1997, 34, 249-253.	1.2	1
56	Synthesis of CsPuF ₅ and Cs ₂ PuF ₆ from Non-Aqueous Media. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 1983, 13, 21-28.	1.8	0
57	Temperature Dependence of the Excess Entropy for Liquid Alloys. Physics and Chemistry of Liquids, 1996, 33, 85-92.	1.2	0
58	Undercooled State of Liquid Rubidium. Physics and Chemistry of Liquids, 1998, 36, 67-74.	1.2	0
59	THERMAL CONDUCTIVITY AND DIFFUSIVITY OF HARZBURGITE ROCK OF OMAN OPHIOLITE. , 2010, , 151-164.		0
60	Surface Segregation and Concentration fluctuations of Compound-forming Binary Alloys. , 1996, , 227-237.		0
61	Structure-induced order â€“ disorder transformation in Cd â€“ Na liquid alloys. International Journal of Materials Research, 2022, 97, 382-387.	0.3	0