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EDUCATION

10/2068-09/2073 *Ph.D. (Physics)*
(1/2012-12/2016) T.M. Bhagalpur University, Bhagalpur, India

Thesis: '*Phase Separation in Binary Liquid Alloys*'

Supervisor : Prof. Dr. B.P. Singh
(*T.M. Bhagalpur University, Bhagalpur, India*)

Co-Supervisor: Prof. Dr. Devendra Adhikari
(*M.M.A.M. Campus, Tribhuvan University, Biratnagar, Nepal*)

PUBLICATIONS

LIST OF RESEARCH PAPERS PUBLISHED IN JOURNALS/PROCEEDINGS

S.N.	Article Title/ Authors/ Journal/ Volume/ Year/ Pages/ doi	Year
1.	*Energetics of mixing and transport phenomena in Cd-X (X=Pb, Sn) melts* **R.P. Koirala**, I. Koirala, D. Adhikari **BIBECHANA (RCOST), 15 (2018)** 113-120. http://dx.doi.org/10.3126/bibechana.v15i0.18751	2018
2.	*Assessment of Surface Tension and Viscosity of In-Zn melt* **R.P. Koirala**, S.K. Yadav, B.P. Singh, I.S. Jha, D. Adhikari, **Himalayan Physics, 6 (2017)** 15-19. http://dx.doi.org/10.3126/hj.v6i0.18351	2017
3.	*Theoretical assessment on mixing properties of liquid Tl-Na alloys* I.S. Jha, R. Khadka, **R.P. Koirala**, B.P. Singh, D. Adhikari **Philosophical Magazine (Tailor & Francis), 96 (16) (2016)** 1664-1683. https://doi.org/10.1080/14786435.2016.1177668	2016
4.	*Prediction of thermodynamic and surface properties of Pb-Hg liquid alloys at different temperatures* S.K. Yadav, L.N. Jha, I.S. Jha, B.P. Singh, **R. P. Koirala**, D. Adhikari **Philosophical Magazine (Tailor & Francis), 96 (18) (2016)** 1909-1925. https://doi.org/10.1080/14786435.2016.1181281	2016

5.	*Energetics and local order in In-based liquid alloys* R.P. Koirala, B.P. Singh, I.S. Jha, D. Adhikari, **BIBECHANA (RCOST), 13 (2016)** 60-71. http://dx.doi.org/10.3126/bibechana.v13i0.13359	2016
6.	*Thermodynamic, structural and surface properties in Sn-Zn melt at 750 K* B.P. Singh, **R.P. Koirala**, I.S. Jha, D. Adhikari **Applied Physics A-Material Science and Processing (Springer), 120 (4) (2015)** 1347-1356. http://dx.doi.org/10.1007/s00339-015-9316-8	2015
7.	*Mixing behaviour of Au-Cu melt* R. Kattel, D. Gadtoula, **R.P. Koirala**, I.S. Jha, B.P. Singh, D. Adhikari **Journal of the Chinese Advanced Materials Society (Tailor & Francis), 3 (2015)** 202-208. http://dx.doi.org/10.1080/22243682.2015.1031277	2015
8.	*Energetics and local order in In-based liquid alloys* **R.P. Koirala**, B.P. Singh, I.S. Jha, D. Adhikari **BIBECHANA (RCOST), 13 (2015)** 60-71**.** http://dx.doi.org/10.3126/bibechana.v13i0.13359	2015
9.	*Viscosity of liquid Na-K alloy* R.P. Koirala, B.P. Singh, I.S. Jha, D. Adhikari **BIBECHANA (RCOST), 12 (2015)** 128-137. http://dx.doi.org/10.3126/bibechana.v12i0.11797	2015
10.	*Bulk and surface properties of Co-Fe and Fe-Pd liquid alloys* **R.P. Koirala**, J. Kumar, B.P. Singh, D. Adhikari **Journal of Non-Crystalline Solids (Elsevier), 394 (2014)** 9-15. https://doi.org/10.1016/j.jnoncrysol.2014.04.001	2014
11.	*Thermodynamic, Surface and Viscous Properties of Molten Ga-Zn Alloys* **R.P. Koirala**, B.P. Singh, D. Adhikari **Journal of Advanced Physics (American Scientific Publishers), 3 (2014)** 163-170. https://doi.org/10.1166/jap.2014.1119	2014
12.	*Structural study of liquid Sn-Tl alloys* **R.P. Koirala**, I.S. Jha, B.P. Singh, D. Adhikari **BIBECHANA (RCOST), 11 (2014)** 46-52**.** http://dx.doi.org/10.3126/bibechana.v11i0.10379	2014
13.	*Thermo-physical properties of molten Cd-Ga alloys* **R.P. Koirala**, B.P. Singh, D. Adhikari **BIBECHANA (RCOST), 10 (2014)** 9-19. http://dx.doi.org/10.3126/bibechana.v10i0.9079	2014
14.	*Mixing properties of Ni-Pd liquid alloy* L. Gurung, **R.P. Koirala**, D. Adhikari **BIBECHANA (RCOST), 10 (2014)** 108-114. http://dx.doi.org/10.3126/bibechana.v10i0.9341	2014

15.	*Thermodynamic, structural and surface properties of liquid Cd-Zn alloys* **R.P. Koirala**, B.P. Singh, I.S. Jha, D. Adhikari **Journal of Molecular Liquids (ELSEVIER), 179 (2013)** 60-66. http://dx.doi.org/10.1016/j.molliq.2012.12.008	2013
16.	*Structural and energetic assessment in cadmium-indium liquid alloys* B.P. Singh, **R.P. Koirala**, I.S. Jha, D. Adhikari, **Physics and Chemistry of Liquids** (**Taylor & Francis**), **51 (2013)** 247-254. https://doi.org/10.1080/00319104.2012.747200	2013
17.	*Surface tension of two weakly interacting liquid alloys* **R. P. Koirala**, D. Adhikari, B. P. Singh **BIBECHANA (BMHSS), 9 (2013)**, 103-112. http://dx.doi.org/10.3126/bibechana.v9i0.7183	2013
18.	*Thermodynamic, structural and transport properties of molten copper-thallium alloys* D. Adhikari, **R.P. Koirala**, B.P. Singh **Proceedings: World Academy of Science, Engineering and Technology (WASET)**, **77 (2013)** 603-608.	2013
19.	*Microscopic and surface properties of Pb-Sn molten alloys* **R. P. Koirala**, B. P. Singh, D. Adhikari **Proceedings: Seminar on Modern Trends in Science and Technology**, Nepal Biological Society, Nepal Physical Society (Eastern Chapter) and Research Council of Science and Technology, Biratnagar (2013)120-135.	2013
20.	*Thermodynamic and structural behaviour of liquid Al-Ga alloys* **R.P. Koirala,** B.P. Singh, I.S. Jha, D. Adhikari **Advanced Materials Letters 4 (4) (2013)**, 283-287. doi:10.5185/amlett.2012.8412	2013
21.	*Ordering in Na-Tl liquid alloys* D. Adhikari, **R. P. Koirala**, N. K. Chaudhary, I. S. Jha **Paradox**, **1 (2012)** 7-9.	2012
22.	*Thermodynamic and structural properties of Mg-Tl liquid alloy* B. P. Singh, D. Adhikari, I. S. Jha, B.C. Kumar, S.K. Chaudhary, S.K. Jayaswal, **R. P. Koirala** **BIBECHANA, 8 (2012)** 81-89. http://dx.doi.org/10.3126/bibechana.v8i0.5692	2012
23.	*Alloying behaviour of Cu-Pd liquid alloy* B. P. Singh, D. Adhikari, I. S. Jha, J. Kumar, **R. P. Koirala** **Material Sciences and Application, 2 (2011)** 1139-1142. http://dx.doi.org/10.4236/msa.2011.28154	2011
24.	*Temperature regulation in animals* **BIBECHANA (BMHSS), 2 (2011)** 30-32. http://dx.doi.org/10.3126/bibechana.v7i0.4037	2011

25.	*Segregation in aluminium-gallium molten alloys* **R. P. Koirala**, I. S. Jha, B. P. Singh, D. Adhikari **SOUVENIR, 1st International Science Congress, Indore, M. P., India, (2011)** 198.	2011
26.	*Experimental study of free energy of activation of flow and Grunberg-Nissan parameters in binary liquid mixtures* I. S. Jha, **R. P. Koirala**, D. Adhikari **BIBECHANA**, **3 (2010)** 9-14. http://dx.doi.org/10.3126/bibechana.v6i0.3932	2010
27.	*Free energy of mixing of liquid In-Na Alloy* I. S. Jha, D. Adhikari, B. P. Singh, **R.P. Koirala** **Medha (M.M.A.M. Campus, Biratnagar)**, **3 (3)** (2010) 19-22.	2010
28.	*Thermodynamics of HgK liquid Alloy* I. S. Jha, D. Adhikari, **R. P. Koirala**, C. Dhital, A. Shrestha **Proceedings, Indian Science Congress, 95th Session**, 33-34.	2008

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