


<p><b>Dr. A. K. Prusty</b> Senior Scientist</p> <p>Email : <a href="mailto:ashish.prusty@icar.gov.in">ashish.prusty@icar.gov.in</a> <a href="mailto:aasiana143@gmail.com">aasiana143@gmail.com</a></p> <p>Phone No: +91-121-2888711 Mobile No. :+91-7599157944</p>	
<p><b>Qualification</b></p>	<p>Ph. D (Aquaculture)</p>
<p><b>Specialization</b></p>	<p>Aquaculture</p>
<p><b>Area of interest</b></p>	<p>Aquaculture, Integrated farming systems, fish based farming systems, typology of farming systems, quantitative analysis of farming systems, development of farming systems for different agro-ecological situations, pesticide toxicity to aquatic animals</p>
<p><b>Experience profile</b></p>	<ul style="list-style-type: none"> <li>• Joined ARS on 07<sup>th</sup> January, 2008.</li> <li>• Scientist at ICAR-CIFRI, Vadodara regional centre from 15<sup>th</sup> May, 2008 to 13<sup>th</sup> May, 2011</li> <li>• Scientist at ICAR-IIFSR, Modipuram from 15<sup>th</sup> May, 2011 to 06<sup>th</sup> January, 2012</li> <li>• Scientist (Senior Scale) at ICAR-IIFSR, Modipuram from 07<sup>th</sup> January 2012 to 06<sup>th</sup> January, 2017</li> <li>• Senior Scientist at ICAR-IIFSR, Modipuram from 07<sup>th</sup> January, 2017 to till date</li> </ul>
<p><b>Total publications</b></p>	<p>Research Papers: 27; Books: 3; Popular articles: 25</p>
<p><b>Selected publications (maximum best 20)</b></p>	<ol style="list-style-type: none"> <li>1. <u>Ashisa K. Prusty</u>, N. P. Sahu, A. K. Pal, A. K. Reddy, Shivendra Kumar. Effect of dietary tannin on growth and hemato-immunological parameters of <i>Labeo rohita</i> (Hamilton) fingerlings. Animal Feed Science and Technology Vol. 136(2007) Pages- 96-108. [ELSEVIER]. NAAS 8.59</li> <li>2. Pradyut Biswas, A. K. Pal, N. P. Sahu, A. K. Reddy, <u>Ashisa K. Prusty</u>, Sougat Misra. Lysine and/or phytase supplementation in the diet of <i>Penaeus monodon</i> (Fabricius) juveniles: Effect on growth, body composition and lipid profile. Aquaculture Volume 265, Issues 1-4, 1 May (2007), Pages 253-260. [ELSEVIER]. NAAS 9.02</li> <li>3. S. Mohapatra, N.P. Sahu, A.K. Pal, <u>A. K Prusty</u>, Vikas Kumar, Shivendra kumar. Haemato-immunology and histo-architectural changes in <i>Labeo rohita</i> fingerlings: effect of dietary aflatoxin and mould inhibitor. Fish Physiology and Biochemistry. Vol.37 (1) March, (2011) pages 177-186. [ SPRINGERLINK] NAAS 7.73</li> <li>4. <u>A. K. Prusty</u>, M. P. S. Kohli, N. P. Sahu, A. K. Pal, N. Saharan, S. Mohapatra and S. K. Gupta. Effect of short term exposure of fenvalerate on</li> </ol>

- biochemical and haematological responses in *Labeo rohita* (Hamilton) fingerlings. *Pesticide Biochemistry and Physiology*. Vol 100 (2) June, 2011 pp. 124-129. [ELSEVIER] NAAS 8.87
5. S. Mohapatra, T. Chakraborty, A. K Prusty, P. Das, K. Pani Prasad and K. N. Mohanta. Use of different microbial probiotics in the diet of Rohu, *Labeo rohita* fingerlings: Effect on growth, nutrient digestibility and retention, digestive enzyme activities and intestinal micro-flora. *Aquaculture Nutrition*. Vol 18 pp. 1-11 (2012) [ WILEY ONLINE]. NAAS 8.10
  6. S. Mohapatra, T. Chakraborty, A. K Prusty, Kundan Kumar, K. Pani Prasad and K. N. Mohanta. Fenvalerate induced stress mitigation by dietary supplementation of multispecies probiotic mixture in a tropical freshwater fish, *Labeo rohita* (Hamilton). *Pesticide Biochemistry and Physiology*. [ELSEVIER]. Vol 104 (2012) pp. 28-37. [ELSEVIER] NAAS 8.87
  7. D.K. Meena, P. Das, Shailesh Kumar, S.C. Mandal, A. K. Prusty , S. K. Singh, M.S. Akhtar, B. K. Behera, Kundan kumar, A. K. Pal and S. C. Mukherjee. Beta Glucan: An ideal Immunostimulant in Aquaculture (A Review). *Fish Physiol. Biochem.* DOI 10.1007/s10695-012-9710-5. Vol. 39: 431-457 (2013). [ SPRINGERLINK] NAAS 7.73
  8. S. K. Gupta, A. K. Pal, N. P. Sahu, N. Saharan, S.C. Mandal, Chandra Prakash, M.S. Akhtar and A. K. Prusty. Dietary microbial levan ameliorates stress and augments immunity in *Cyprinus carpio* fry (Linnaeus, 1758) exposed to sub-lethal toxicity of fipronil. *Aquaculture Research* Vol. 45 (5): 893-906 (2014). doi:10.1111/are.12030. [SPRINGERLINK] NAAS 7.50
  9. S. K. Gupta, A. K. Pal, N. P. Sahu, A. K. Jha, M.S. Akhtar, S.C. Mandal, P. Das and A. K. Prusty. Supplementation of microbial levan in the diet of *Cyprinus carpio* fry (Linnaeus, 1758) exposed to sublethal toxicity of fipronil: effect on growth and metabolic responses. *Fish Physiol. Biochem.* Vol 39 (6) pp. 1513-1524 (2013). DOI 10.1007/s10695-013-9805-7 [SPRINGERLINK] NAAS 7.73
  10. S. Mohapatra, T. Chakraborty, A. K Prusty, K. Pani Prasad and K. N. Mohanta. Dietary multispecies probiotic supplementation enhances the immunohematological responses and reduces mortality by *Aeromonas hydrophila* in *Labeo rohita* fingerlings. *Journal of the World Aquaculture Society*. 45 (5): 532-544 (2014). NAAS 7.39
  11. S. Mohapatra, T. Chakraborty, A. K Prusty, K. Pani Prasad and K. N. Mohanta. Beneficial effects of

- dietary probiotics mixture on hemato-immunology and cell apoptosis of *Labeo rohita* fingerlings reared at higher water temperatures. PLOS One. 9(6):e100929 (2014). **NAAS 8.78**
12. Poonam Kashyap, M P Singh, V K Singh, A K Prusty, R P Mishra, V P Choudhary, B Gangwar. 2017. Resource Integration for livelihood and nutritional security of farmers of Tehri Himalayas of India. Indian J. Agr Sci. Vol. 87 (9):1196-1202). **NAAS 6.25.**
  13. SS Sharma, P Kashyap, PS Shekhawat, AK Prusty, AS Panwar. 2017. Growth and yield performance of cauliflower as influenced by NPK fertilization combination under western plain zones of Uttar Pradesh. Indian J. Hort. vol. 74(3):399-404. **NAAS 6.11.**
  14. Husain, Z., P. Kashyap, A. K. Prusty, D. Dutta, S.S. Sharma, A. S. Panwar and Sunil Kumar (2019). Effect of phosphorous fertilization on growth, yield and quality of pea (*Pisum sativum*), Indian J. of Agricultural Sciences, 89 (8): 1303-07. **NAAS 6.25**
  15. Toorop RA, Ridaura SL, Birjaniya D., Kalawantawanit, E., Jat, R. K., Prusty, A. K., Jat M. L. and Groot, J. C. J. 2020. Farm-level exploration of economic and environmental impacts of sustainable intensification of rice-wheat cropping systems in the Eastern Indo-Gangetic plains. European J. of Agronomy, 121: 126157. **NAAS 9.38**
  16. Panwar A. S., M. Shamim, Subhash Babu, N. Ravisankar, A. K. Prusty, N. M. Alam, D. K. Singh, J. S. Bindhu, J. Kaur, L. N. Dashora, M. D. Latheef Pasha, S. Chaterjee, M. T. Sanjay and L. J. Desai. (2019). Enhancement in Productivity, Nutrients Use Efficiency, and Economics of Rice-Wheat Cropping Systems in India through Farmer's Participatory Approach, Sustainability, 11 (122): 1-26 **NAAS 8.59**
  17. Prusty, A. K., Sahu, N. P. and Mohapatra, S.; (2017). Immuno-stimulating impacts of dietary enrichment of vitamin C and E combinations in *Labeo rohita* fingerlings. Progressive Agriculture, Vol 17(1):26-32. **NAAS 4.29.**
  18. Sunil Kumar, B. Gangwar, A. K. Prusty and Mohmmad Shamim. Prospects of organic agriculture in Eastern Himalayan region- A case study of Mizoram. Progressive Agriculture 13(1): 139-150 (2013). **NAAS 4.29**
  19. Poonam Kashyap, Avinash Kansal, A. K Prusty and J. P. Singh. Evaluation of horticulture based IFS models for providing nutritional security to small and marginal farmers of western plain zone of U.P. International Journal of Economic Plants. 2(1):15-

	<p>17 (2015). <b>NAAS 4.08</b></p> <p>20. Udita Chaudhary, Sunil Kumar and <u>A. K. Prusty</u>. World Food Security: The Way Ahead. Research Journal of Animal Husbandry and Dairy Science. Vol 4(1). 36-41 (2013). <b>NAAS 3.86</b></p>
<p><b>Awards (in bullet form)</b></p>	<ul style="list-style-type: none"> <li>• Received ICAR-CIMMYT Collaborative Project Grant under CCAFS flagship programme during 2016-2019.</li> <li>• Received Young Scientist Award- 2017 from Agricultural technology Development Society, Ghaziabad, Uttar Pradesh on the occasion of International Conference on Advances in agricultural biodiversity conservation for sustainable development organised at CCS University, Meerut during 27-28 October, 2017.</li> <li>• Best Poster (second) award in the XXI National Symposium of Indian Society of Agronomy, 2018. Awarded by Indian Society of Agronomy during 2018</li> <li>• Best Paper Presentation Award in the IX National Extension Education Congress-2018. Awarded by Society of Extension Education during 2018</li> <li>• Awarded the Young Scientist Award 2019 in the field of Fisheries on the occasion of International Conference on 3rd Global meet on science and technology for ensuring food and nutritional security (GMST 2019) held during 1-3 December 2019 at National Research Centre on seed Spices, Ajmer, Rajasthan.</li> <li>•</li> </ul>
<p><b>Significant achievements including development of methodology, technology etc (maximum 10 in bullet form)</b></p>	<ul style="list-style-type: none"> <li>• Low cost fish feed using plant protein sources</li> <li>• Mitigation of pesticide toxicity impact in fishes using vitamin C and E supplementation in feed.</li> <li>• Integration of fisheries module in farming systems in low lying areas/waterlogged areas</li> <li>• Developed methodology for characterization of farming systems through typology.</li> <li>• Application of quantitative assessment tools for systems analysis of integrated farming systems and design of alternative options.</li> <li>• Development location specific integrated farming systems.</li> </ul>
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