Curriculum Vitae

Personal Details



Name	:	Dr. **Shankar Ram**
Date of Birth	:	Jun 20, 1990
Father name	:	Kundan Ram
Age	:	36 years
Gender	:	Male
Marital state	:	Married
Language known	:	Hindi and English
Interest	:	Teaching and Sports
Phone No.	:	9456175089, 7017143861
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Permanent Address : Village & Post office- Pawalgurh
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Education profiles:

Degree/ Diploma	Major/ subject	Board/ University	Percentage	Year
Class X	Hindi, English, Mathematics, Social Science, Science, Art	Uttaranchal Board	68.70%	2006
Class XII	Hindi, English, Mathematics, Physics, Chemistry	Uttarakhand Board	80.00%	2008
Graduation (B.Sc.)	Physics, Chemistry, Mathematics	Kumaun University.	73.60%	2011
Post Graduation (M.Sc.)	Chemistry	Kumaun University.	64.70%	2014
CSIR-NET- JRF	Chemistry	-	83 rank	2015
Ph. D.	Chemistry (Organic synthesis)	CSIR- IHBT (AcSIR), Palampur, HP.	7.79 CGPA	2025

Awards and Fellowships:

- CSIR National Eligibility Test- Junior Research Fellowship (December 2015)
- DST INSPIRE Scholarship for Higher education: Graduation (B.Sc.) and Post graduation (M.Sc.)

Experiences:

- Seven years (2020–Present) of **Teaching Experience** in higher education institutions in Uttarakhand, India.
- Four years (2016–2020) of **Research Experience** at CSIR–Institute of Himalayan Bioresource Technology (CSIR-IHBT), Himachal Pradesh, India.
- Served as an **Interview Panel Expert for faculty/staff recruitment** at Kendriya Vidyalaya (KV), SSB Gwaldam, Chamoli, Uttarakhand, India.
- Served as **Research Project Coordinator** for Kendriya Vidyalaya (KV), SSB Gwaldam, Chamoli, Uttarakhand, India under the **PRAYAS Scheme.**
- Completed a one-week **Entrepreneurship Development Training** Programme under the Devbhoomi Udhyamita Yojna (DUY) at the Entrepreneurship Development Institute of India (EDII), Ahmedabad, India focusing on entrepreneurship, innovation, business planning, and enterprise development.
- Six years of **administrative experience** as **Examination In-charge** at Sri Dev Suman Uttarakhand University, Badshahithol, Tehri Garhwal (Uttarakhand).
- Six years of **administrative experience** as **Study Centre Coordinator** at Uttarakhand Open University.
- Five years of experience in **career counselling, student mentoring, and professional guidance** across higher education institutions in Uttarakhand, India.
- Experience in **Centre Evaluation** of university examination answer scripts.

Personal Skills:

- Experience in handling of Nuclear Magnetic Resonance (NMR) 600 MHz (Bruker), NMR 300 MHz (Bruker) High Pressure Liquid Chromatography (HPLC), Ultra-Performance Liquid Chromatography (UPLC) (Acquity, Waters), GC, GC-MS (Shimadzu), Infrared Spectroscopy (IR), UV-Visible Spectroscopy, Column Chromatography, TLC (Thin Layer Chromatography), Melting Point Apparatus (B.U.CHI. M-560), Rotatory Evaporator (B.U.CHI. R-215).
- Exposure to the variety of chemical reactions involving C-C, C-N, C-O bond formation such as Pd catalyzed cross coupling reactions (Suzuki, Heck, Sonagashira, Buchwald, Negishi reactions).
- Good experience in handling multi-step synthesis of complex organic molecules.
- Experience in isolation, purification, reaction monitoring of each critical step in multi-step synthesis.

Research Publications:

1. **Shankar Ram,** Shaifali, Arvind Singh Chauhan, Sheetal, Ajay Kumar Sharma and Pralay Das, " Polystyrene supported palladium (Pd@PS) catalyzed carbonylative annulation of aryl iodides

using oxalic acid as a sustainable CO source for the synthesis of 2-aryl quinazolinones" *Chem. Eur. J.*, **2019**, *25*, 14506 – 14511.

2. **Shankar Ram**, Ajay Kumar Sharma, Arvind Singh Chauhan and Pralay Das, "Palladium-catalyzed ortho-halogen-induced deoxygenative approach of alkyl aryl ketones to 2-vinylbenzoic acids" *Chem. Comm.*, **2020**, *56*, 10674-10677.

3. **Shankar Ram**, PushkarMehara, Ashish Kumar, Ajay Kumar Sharma, Arvind Singh Chauhan, Ajay Kumar and Pralay Das, "Supported-Pdcatalyzed carbonylative synthesis of phthalimides and isoindolinones using oxalic acid as *in situ* CO surrogate with 2-iodobenzamides and 2-iodobenzylanilines in ppm-level catalyst loading'' *Mol. Catalysis*, **2022**, *530*, 112606.

4. Shaifali, **Shankar Ram**, Vandna Thakur and Pralay Das, "Nickel catalyzed carbonylative Sonogashira coupling between aryl halides and phenyl acetylenes using Oxalic acid as an *ex-situ* C1 source" *Org. Biomol. Chem.*, **2019**,*17*, 7036.

5. Ajay Kumar Sharma, **Shankar Ram**, Pushkar Mehara, Arvind Singh Chauhan and Pralay Das, "Supported Palladium-Gold Catalyzed Carbonylative Methylthioesterification of Aryl Iodides using Oxalic acid and DMSO as CO and CH_3SH Surrogates" *Asian J. Org. Chem.* **2020**, 9, 2099-2102.

6. Shaifali, Rohit Bains, Ajay Kumar, **Shankar Ram** and Pralay Das, "Supported palladium catalyzed aminocarbonylation of aryl iodides employing bench-stable CO and NH 3 surrogates" *Org. Biomol. Chem.*, **2020**,*18*, 7193-7200.

7. Dhananjay Bhattacherjee, **Shankar Ram**, Arvind Chauhan, Yamini, Sheetal and Pralay Das, "Hypervalent Iodine (III) Mediated Counter Anion Controlled Intra-molecular Annulation of Exocyclic-β-Enaminones to Carbazolone and Imidazo[1,2-a]pyridine Synthesis" *Chem.Eur.J.*, **2019**, *25*, 5934 –5939.

8. C. Bal Reddy, **Shankar Ram**, Ajay Kumar, Richa Bharti and Pralay Das, "Supported palladium nanoparticles catalysed aminocarbonylation of aryl halides with amines using oxalic acid as sustainable CO source" *Chem. Eur. J.*, **2019**, *25*, 4067 – 4071.

9. Ashish Kumar, Sheetal, **Shankar Ram** and Dr. Pralay Das, "Molecular oxygen-mediated oxidation of ary/aralkyl ketones to aromatic acids catalyzed by I_2 and DMSO" *Asian Journal of Organic Chemistry*, **2026**. (Submitted)

Patents:

1. Pralay Das, Yamini, Richa Bharti, Shankar Ram, Vijay K. Bhardwaj, Rituraj Purohit,

Damanpreet singh, Prince Anand, Yogendra S. Padwad, Bioactive benzocycloheptene analouges from himachalenes and its applications; **WO 2022/085023 A1**, April 28, 2022.

2. Pralay Das, Yamini, Pushkar Mehara, Ashis Kumar, Rohit Bains, Ajay Kumar, Shankar Ram, Dharminder Sharma, Process development for substituted resorcinol production from cyclohexane 1,3-diones; **WO 2025/181827 A2**, Sep. 04, 2025.

National and International Conferences/Seminars:

1. Polystyrene stabilized nano-catalyst for CO/CO_2 fixation reaction using oxalic acid as C1 source, Shaifali, **Shankar Ram** and Pralay Das. **2nd National Symposium on shaping the energy future: challenges & opportunities (SEFCO-2018),** 11-12 may, 2018 at CSIR-Indian Institute of Petroleum, Dehradun, India.

2. Supported palladium nanoparticles catalyzed carbonylative cyclization reaction of 2-aminobenzamides and aryl halides using oxalic acid as CO source for quinazolinones synthesis, **Shankar Ram** and Pralay Das. **International conferences on synthetic potent molecules and its application (ICSPMIA-2018),** 30-31 October 2018, at Sikkim Manipal Institute of Technology, Sikkim, India.

3. Heterogeneous nano-catalyst for CO/CO_2 fixation reactions, Ajay Kumar Sharma, **Shankar Ram** and Pralay Das. **International conferences on EMERGING TRENDS IN CATALYSIS (ETC-2020),** 6-8 January 2020, at Vellore Institute of Technology, Tamil Nadu, India.

4. Essential oils, Plant extracts, Traditional Medicines, and Their development as green Medicines, Poonam Kushwaha, Darshan singh, Rajendra Singh Rana, Mamta Bisht, **Shankar Ram** and Ajay Kumar Tiwari. **National Conference on Climate Change: Its Impact on Bioresources of the Himalayan Region (CCIBHR-2022),** 5-6 June 2022, at Govt. P.G. College Dwarahat, Almora, Uttarakhand in Collaboration with U.S.E.R.C.

5. Polystyrene supported palladium (Pd@PS) nanoparticles catalyzed carbonylative synthesis of phthalimides and isoindolinones using oxalic acid as *in situ* CO Source under ppm-level catalyst loading, **Shankar Ram** and Prakash Chandra. **International conferences on EMERGING TRENDS IN CHEMICAL SCIENCE (ETCS-2023),** 17-18 March 2023, at H.V.M. P.G. College, Raisi, Haridwar, Uttarakhand in Collaboration with U.S.E.R.C.

6. Hemachalenes: Future Prospective and future directions. **Shankar Ram** and Chandrasoot Hariom. **National Conference on Plant Biodiversity: As a Sustainable Supply of Bioactive Compounds (Essential Compounds) for Environment and Human Health**, 20-21

September, 2024, at GDC Talwari, Chamoli, Uttarakhand in Collaboration with U.S.E.R.C.

7. Patenting Innovations in Sustainable Chemistry: Intellectual Property Strategies Renewable Processes and Green Technologies, **Shankar Ram**. **National Seminar On Various Aspects of Intellectual Property Rights (VAIPR-2024),** 19 September 2024, at GDC Talwari, Chamoli, Uttarakhand in Collaboration with UCOST.

Books/edited books/Conference proceedings Published:

1. Kushwaha, P., Singh, D., Rana, R. S., Bisht, M., **Ram, S.** and Tiwari, A. K. (2022). "Essential oils, Plant extracts, Traditional Medicines, and Their development as green Medicines" Darshan Singh, *Climate Change: Its Impact on Bioresources of the Himalayan Region (CCIBHR-2022)* (pp 36-49). KUNAL BOOKS, NEW Delhi. **ISBN No- 978-93-95651-65-3**

2. Joshi, G., **Ram, S.,** Mishra, S. B., and Bisht, B. S., *NEP Fundamentals of Chemistry-II SEM, Uttarakhand*. Pragati Prakashan, 2023, **ISBN: 978-81-19067-69-5.**

3. **Ram, S.,** Joshi, G., Gautam, B. P. S., Belwal, M., and Joshi, G., *NEP General Chemistry-II, SEM-IV, Uttarakhand*. Pragati Prakashan, 2024, **ISBN: 978-93-5854-628-6.**

4. Joshi, G., **Ram, S.,** Kothiyal, S. and Beniwal, S., *Organic Chemistry- V SEM, Uttarakhand*. Pragati Prakashan, 2024, **ISBN: 978-93-5854-706-1.**

5. **Ram, S.,** Joshi, G., Gautam, B. P. S., Kandpal, M., and Gondwal, M., *NEP Physical Chemistry-VI SEM, Uttarakhand*. Pragati Prakashan, 2025, **ISBN: 978-93-6962-886-5.**

6. **Ram, S.,** Chandra, P. and Kumari, P. (2023). "An Update on Palladium Catalyzed Carbonylative Synthesis of Phthalimides". *Hemant Panwar, EMERGING TRENDS IN CHEMICAL SCIENCE (ETCS-2023) (pp. 26-48).* Walnut Publication. **ISBN: 978-83-961911-9-1.**
7. **Ram, S.** (2026). "Nanocatalysis as a Green Chemistry Approaches". Ritu Kashyap, *Frontiers in Environmental Life Sciences*. Genic Books. (Submitted)

Declaration:

I hereby declare that all the statements made in this curriculum vitae are true, complete and correct to the best of my knowledge and belief.



(Shankar Ram)