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| **Personal Profile Nationality** **Gender** **Marital Status** | IndianFemaleMarried |
| **Permanent address****Current address****Languages** | Krishnapally South, District-Malda, Pin-732101, West Bengal, India.8953 Fox Lake Dr, Knoxville, Tennessee, Zip:37923, USA.Hindi (native), Punjabi, English |
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| **Research Highlights:****Academic Profile****Postdoc Research Experience**09/12/2023-present**Postdoc Research Experience**10/24/2017 - 02/15/2021 | *Organic and Inorganic synthesis, Supramolecular chemistry, Macrocycles, Functional Nanomaterial, Fluorescence, Metal and Anion complexes, Catalysis, NMR, UV-vis Spectroscopy, Nanoparticle, Green Catalysis, C-H activation, Crystallography*.**Postdoctoral Researcher,** Oak Ridge National Laboratory**Postdoctoral Researcher** **Supervisor: Prof. Kristin Bowman-James**Department of ChemistryUniversity of Kansas, Kansas, USA |
| **Ph.D. (Organic Chemistry)**06/26/2012 - 03/17/2017 | 17th March, 2017**Thesis title:** Fluorescent Aggregates of Pentacenequinone/Perylene Bisimide Derivatives: Self-assembly, Sensing and Catalytic Applications.**PhD Supervisor: Prof. Vandana Bhalla** Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India. |
| **M.Sc (Chemistry) (Marks: 68%)****B.Ed (Marks: 68%)** | 2009-2011 (1st rank holder, Gold Medalist) Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India.2008-2009, D.A.V. College of Education for Women, Guru Nanak Dev University, Amritsar, Punjab, India. |
| **B.Sc (Chemistry)** **(Marks: 73%)** | 2005-2008, Kishinchand Chellaram College, Mumbai University, Mumbai, India. |
| **10+2 (Science)** **(Marks: 74%)** | 2004-2005, K.V Malkapuram, Vishkhapatnam, India. |
| **10th (Marks: 60%)** | 2002-2003, K. V. No. 1, colaba, Mumbai, India. |
| **Google Scholar Citation:****ORCID iD:**  | <https://scholar.google.com/citations?user=pdJa4l4AAAAJ&hl=en> ***Citation***: 225 (updated 12th July, 2023); ***h-index***: 6<https://orcid.org/0000-0001-8155-4862> |
| **Publications**1. **Sandeep Kaur**, Subhamay Pramanik, Victor W. Day a and Kristin Bowman-James\* Snapshots of “Crystalline” Salt-Water Solutions Inositol Hexaphosphate Conformers. *Dalton Trans.* **2021**, *50*, 480-484. (IF: 4.3)
2. Jessica A. Lohrman, Subhamay Pramanik, **Sandeep Kaur**, Hanumaiah Telikepalli, Victor W Day and Kristin Bowman-James, Hydrophilic and Hydrophobic Carboxamide Pincers as Anion Hosts. *Org. Biomol. Chem.* **2021**, *19*, 8516-8520. (IF: 3.8)
3. **Sandeep Kaur**, Victor W. Day a and Kristin Bowman-James\* Urea-Based Macrocycle Selective for Sulfate and Structurally Sensitive to Water. *Cryst. Growth Des.* **2020**, *20*, 4212-4216. (IF: 4.07)
4. **Sandeep Kaur**, Manoj Kumar and Vandana Bhalla, Supramolecular ensemble of PBI derivative and copper nanoparticles: a light harvesting antenna for photocatalytic C(sp2)-H functionalization, *Green Chem.* **2016**, *18*, 5870-5883. (IF: 9.4)
5. **Sandeep Kaur**, Manoj Kumar and Vandana Bhalla, Aggregates of perylene bisimide stabilized superparamagnetic Fe3O4 nanoparticles: an efficient catalyst for the preparation of propargylamines and quinolines via C-H activation, *Chem. Commun.*, **2015**, 51, 16327- 16330. (IF: 6.2)
6. **Sandeep Kaur**, Manoj Kumar and Vandana Bhalla, AIEE active perylene bisimide supported mercury nanoparticles for synthesis of amides via aldoximes/ketoximes rearrangement, *Chem. Commun.*, **2015**, 51, 4085-4088. (IF: 6.2)
7. Kamaldeep Sharma, **Sandeep Kaur**, Vandana Bhalla, Manoj Kumar and Ankush Gupta, Pentacenequinone derivatives for preparation of gold nanoparticles: facile synthesis and catalytic application, *J. Mater. Chem. A* **2014**, *2*, 8369-8375. (IF: 11.3)
8. **Sandeep Kaur**, Ankush Gupta, Vandana Bhalla and Manoj Kumar, Pentacenequinone Derivatives: aggregation-induced emission enhancement, mechanism and fluorescent aggregates for superamplified detection of nitroaromatic, *J. Mater. Chem. C* **2014**, *2*, 7356-7363. (IF: 7.06)

**Book Chapter**1. Pramod Kumar, **Sandeep Kaur**, Rajeev Gupta and Kristin Bowman-James, Pincer Compounds 1st Edition, Chemistry and Applications: ***Book Chapter 14***: Pincers Based on Dicarboxamide and Dithiocarboxamide Functional Groups, **Eds.:**David Morales-Morales*, Elsevier*, **2018**.

**Awards and Fellowships:*** **Judges as well as People choice Winner, YSiaN 2023** Competition ORNL • Competition: Your Science in a Nutshell (YSiaN) 2023 is an intra-ORNL competition.
* **Best oral presentation Winner**,11th Annual Oak Ridge Postdoctoral Association Research Symposium, Oak Ridge National Laboratory Date: May 18-19, 2023
* **Best oral presentation award** at "VIth National Symposium on Advances in Chemical Sciences”, March 6-7th, 2017, Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar.
* **INSPIRE doctoral Fellowship** for PhD (06/26/2012 to 03/17/2017).
* **1st rank holder** in M.Sc., got Gold Medal.

**Editorial Board Member:*** **Review Editor** of Catalytic Reactions and Chemistry division in Frontiers in Chemistry (IF: 5.2).

**Research Experience:** * 3 years 3 months postdoc research experience in Ph.D.
* One year research experience in M. Sc. project at Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India.
* Assisted M.Sc. (HONS) graduates during Ph.D. tenure at Guru Nanak Dev University, Amritsar for their research project work.
* Assisted REU student (Research Experiences for Undergraduates programs) at Kansas University.
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| **Research Expertise and Instrumentations:*** Experienced in handling many hazardous and sensitive chemicals.
* Experienced in separation and purification methods such as column chromatography, Prep TLC and recrystallization.
* Experienced in using different analytical techniques such as UV-visible, fluorescence spectrophotometry, Time resolved fluorescence spectrometry (TRF), polarized optical microscopy (POM), Transmission Electron Microscope (TEM), Scanning Electron Microscope (SEM), Dynamic light scattering (DLS) analysis, Cyclic voltammetry (CV), Spectro-electrochemical analysis, NMR and FT-IR spectroscopy High performance liquid chromatography-mass spectrometer (HPLC-MS), Combi-flash chromatography.
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| **National and International Conferences Attended:*** Oral presentation in **winter CMI meeting** to be held at Colorado school of mines in January 24-26, 2023.
* Poster Presentation at **Critical Minerals & Materials Mini-Symposium** May 15th, 2023 Washington, D.C.
* Poster presentation at **ACS Spring 2021**, USA on April 5-30, 2021.
* Poster presentation at **257th ACS National Meeting,** Orlando, FL, USA on March 31st-April 4th, 2019.
* Poster presentation at 255th ACS National Meeting, New Orleans, LA, USA on March 18th-22nd, 2018.
* Attended2017 Midwest Regional Meeting, October 18th-20th, 2017 at Kansas University, Lawrence, KS, USA.
* **Best oral presentation award** at "VIth National Symposium on Advances in Chemical Sciences”, March 6th-7th, 2017, Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar.
* Attended **National Symposium** on Recent Trends in Chemistry, January 27th, 2017, Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar.
* Poster Presentation in **18th CRSI-RSC Symposium** in Chemistry‟ held on February 5-7, 2016 held at Panjab University, Amritsar, India. Poster Presentation in **11th International IUPAC conference** on polymer-solvent complexes and interchelates on January 27-30, 2016 held at Indian association of cultivation of science, Kolkata, India.
* Poster Presentation in **Vth national symposium** on advances in chemical sciences at Guru Nanak Dev University, Amritsar, 3-4th February, 2016.
* Poster Presentation in **16th CRSI-RSC Symposium** in Chemistry held on February 6-8th, 2015 held at Indian institute of technology, Powai, Mumbai, India.
* Poster Presentation in **national symposium** on “Advances in Chemical sciences to commemorate the national science day” at Guru Nanak Dev University, Amritsar, 28th March, 2013.
* Attended **“21st Conference of National Magnetic Resonance Society of India”** (BRUKER-NMRS) held at Guru Nanak Dev University, Amritsar, 6-9th March, 2015.
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