

CURRICULUM VITAE

Dr. Khushboo Singh

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1. Educational Qualifications:

Exam/Degree	University / Board	Passed Year
Ph.D	H.N.B. Garhwal Univ. (A Central University), Srinagar Garhwal, UK	2016
M.Sc.	Gurukula Kangri Vishwavidyalaya, Haridwar, UK	2010
B.Sc.	H.N.B. Garhwal Univ. (A Central University), Srinagar Garhwal, UK	2008

• **Ph.D. Thesis title and date of viva-voce:**

“Study of fluorescence energy transfer between donor acceptor pairs doped in polymeric matrices useful for applications in luminescent solar collectors”.

- ✓ The viva-voce for Ph.D. degree was held in the Department of Physics, H.N.B. Garhwal University (A Central University), Srinagar Garhwal, Uttarakhand on dated 02-12-2016.

2. Appointments:

• **Current**

- ✓ **Assistant Professor**, Department of Physics, School of Physical Sciences, Doon University, Dehradun, Uttarakhand.

• **Previous**

- ✓ **Assistant Professor (Guest)** in S.B.S University, Dehradun, Uttarakhand from 09/08/2017 to 09/10/2018.
- ✓ **Assistant Professor**, in Shivalik Engineering College, Dehradun, Uttarakhand from 02/01/2016 to 08/08/2017.
- ✓ **Junior Research fellow (UCOST Project)** (12000/-) in H.N.B.G University, Srinagar Garhwal, Uttarakhand from 31-08-2012 to 28-08-2015.

3. Qualified Exams:

- ✓ Qualified Interview conducted by Doon University (State Gov.), Dehradun, Uttarakhand.
- ✓ All India level Common Research Entrance Test, conducted by HNB Garhwal University, Srinagar Garhwal in 2011.

4. Area of Interests:

- ✓ Atomic and Molecular Physics, Fluorescence energy transfer study, investigation of advance fluorescent materials for solar energy harvesting applications, UV/Vis. Spectroscopy and Fluorescence Spectroscopy.

5. Technical Expertise:

- ✓ Thin films, UV/Vis. Spectroscopy and Fluorescence Spectroscopy.

6. Research Experience:

- ✓ Research Fellow at Department of Physics, H.N.B. Garhwal University (A Central University), Srinagar Garhwal, Uttarakhand, India.
- ✓ 3 Year Project of UCOST on “Study of photo physical processes of fluorophors doped in polymers and polymer blends” under the supervision of Prof. G.C.Joshi, Department of Physics, H.N.B. Garhwal University, Srinagar.

7. List of Publications:

- ✓ **Khushboo Singh** and G.C. Joshi, “Excitation energy transfer in binary dye system coumarin6-rhodamine6g and ternary dye system coumarin102-coumarin6-rhodamine6g doped in poly (methyl methacrylate)” Journal of Science and Technological Researches (JSTR), Volume 02, (September 2020), PP 12-22. [IF-2.3]
- ✓ **Khushboo Singh**, G.C.Joshi and S.C.Gairola, “ Influence of donor donor transport on excitation energy transfer in binary system C-102 C-6 doped in PMMA” Journal of Radiation physics and chemistry (Elsevier), Volume 144, (September 2018), PP 165-170.[IF-2.9]
- ✓ Namarta Ghildiyal and **Khushboo Singh** et. al, “Spectral investigation of the effect of anion of the estabiity of noncovalent assemblies of 2,3,5,6,8,9,11,12- octohydro-1,4,7,10,13 benzopentaoxycyclopentadycine(benzo-15-crown-5) with sodium he” *Spectrochemica acta part A: molecular and bio molecular spectroscopy/ (Elsevier)*, Volume 171, (April 2016), PP 507-514. [IF-4.4]
- ✓ **Khushboo Singh**, Gauri Negi and G.C.Joshi, “Study of excitation energy transfer from Coumarin102 (donor) to Coumarin6 (acceptor) doped in poly-methyl methacrylate (PMMA) thin film” *American Institute of Physics Conference Proceeding* 1661 (2015) 110026.[IF-0.189]

- ✓ **Khushboo Singh** and G.C Joshi, “Influence of donor-donor transport on excitation energy transfer in binary system C343-Rh6G doped in Poly (methymethacrylate)” *IOSR Journal of Applied Physics (IOSR-JAP)* 2278-4861, Volume 7, Issue 6 Ver. II (Nov-Dec 2015), PP 03-13. [IF-3.1]

8. Declaration:

I hereby declare that the information furnished above is true, correct and complete to the best of my knowledge.

Dr. Khushboo Singh

Date: 02/12/2023

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