



## Profile of the Faculty

### 1. General Information:

Name of the Faculty	:	Dr. Anuja Singh
Name of the Department	:	Chemistry
Educational Qualifications	:	B.Sc., IIT-JAM, M.Sc., Ph.D., GATE
Present Position	:	Assistant Professor
Address for Correspondence	:	Department of Chemistry, Changu Kana Thakur Arts, Commerce and Science College, New Panvel (Autonomous), Plot-No.01, Sector-11, Khanda Colony, New Panvel (W), Dist. Raigad, Maharashtra, India-410206
E-mail	:	<a href="mailto:19anujasingh@gmail.com">19anujasingh@gmail.com</a>
Contact Number	:	9566166584
Specialization	:	Physical Chemistry
Total teaching experience	:	1 Year
Courses taught	:	UG- Physical Chemistry PG- Bioanalytical Chemistry
Research experience	:	--
Number of students registered for Ph.D. degree	:	--
Number of students awarded Ph.D. degree	:	---
Number of students registered for P.G degree by research	:	---
Number of students awarded P.G degree by research	:	---

## 2. Publication of Research Papers:

Peer reviewed journals	:	7
Non-peer reviewed journals	:	0
Conference proceedings	:	0

### List of Publication of Research Papers:

1. Madhumita Tarai, **Anuja Singh**, Avik K. Pati and Ashok K. Mishra, “Resolving fluorescence signatures of a photoconvertible fluorophore by fluorescence spectroscopy and MCR-ALS-based combinatorial approach”, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2022, **268**, 120683.  
<https://www.sciencedirect.com/science/article/abs/pii/S1386142521012609>
2. **Anuja Singh**, Avik K. Pati and Ashok K. Mishra, “Photophysics and Photoreactivity of Cross-Conjugated Eneidyne Aggregates: Applications to multi-parametric sensing of microheterogeneity and reversible fluorescence switching”, *Chemical Physics*, 2020, 529, 110579.  
<https://www.sciencedirect.com/science/article/pii/S0301010419311462>
3. **Anuja Singh**, Avik K. Pati and Ashok K. Mishra, “Photophysical Impact of Diacetylenic Conjugation on Classical Donor-Acceptor Electronic Energy Pair”, *J. Phys. Chem. A*, 2019, **123**, 443–453.  
<https://pubs.acs.org/doi/abs/10.1021/acs.jpca.8b09689>
4. S. Mukherjee, K. Ganorkar, S. Gupta, A. Kumar, **A. Singh**, S. K. Ghosh, „The consequences of adopting therapeutic luminophore azapodophyllotoxin into BSA: a molecular regulator to control emissive population of two tryptophan residues in carrier protein”, *Journal of Biomolecular Structure and Dynamics*, 2019, doi.org/10.1080/07391102.2019.1630320.  
<https://www.tandfonline.com/doi/full/10.1080/07391102.2019.1630320>
5. **Anuja Singh**, Avik K. Pati and Ashok K. Mishra, “Photophysics and peripheral ring size dependent aggregate emission of cross-conjugated enediynes: applications to white light emission and vapor sensing”, *Phys. Chem. Chem. Phys.*, 2018, **20**, 4167- 4180.  
<https://pubs.rsc.org/en/content/articlelanding/2018/CP/C7CP08091C#!divAbstract>
6. **Anuja Singh**, Avik K. Pati and Ashok K. Mishra, “Photoinduced Intramolecular Charge Transfer in a Cross-Conjugated Push-Pull Eneidyne: Implications toward Photoreaction”, *Phys. Chem. Chem. Phys.*, 2018, **20**, 14889-14898.  
<https://pubs.rsc.org/en/content/articlelanding/2018/CP/C8CP01745J#!divAbstract>
7. R. Joshi, S. Mukherjee, A. Kumar, **A. Singh**, S. K. Ghosh, M. C-Santana, „Unusual photophysics of anticancer azapodophyllotoxin: The collective effect of discrete H-bond motif spills the beans”, *Journal of Photochemistry and Photobiology A: Chemistry*, 2017, **349**, 49–62.  
<https://www.sciencedirect.com/science/article/abs/pii/S1010603017310031>

**3 Minor Research Project Completed:**

<b>Title of the project</b>	<b>Date of sanction</b>	<b>Duration</b>	<b>Grant received</b>	<b>Funding agency</b>
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**4 Patents:**

<b>Status</b>	<b>International</b>
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**5 Membership:**

- NA

**6 Academic Staff College Orientation/Refresher courses attended:**

<b>Name of the Course</b>	<b>Place</b>	<b>Duration</b>	<b>Sponsoring Agency</b>
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**7 Participation in conferences, symposia, seminars and workshops:**

<b>Level</b>	<b>Poster presented</b>
International	02
National	07

**8 Conferences, symposia, seminars and workshops organized as convener/co-convener:**

<b>Level</b>	<b>Convener</b>	<b>Co-convener</b>
National	----	---

**9 Experience on the various committees at the college**

NA

**10 Experience on the NAAC/ IQAC of the college**

NA

**11 Experience on the Various Committees at the University of Mumbai / Government**

NA

**12 Awards/recognitions received : NA**