

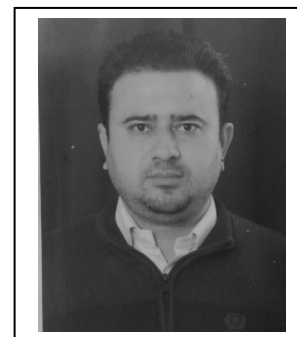
**Name:** Dr. Sanjeev Kumar

**Designation:** Assistant Professor

**Specialization:** Physical Chemistry

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### **Education**

**M.Sc. Chemistry** (2008, Punjabi University, Patiala),

**M.Phil. (Physical Chemistry)** -2009 M.M.U Mullana Haryana

**Ph.D.** (26<sup>th</sup> May, 2017, Punjabi University, Patiala)

**Title of Ph. D Thesis:**

“Physico-Chemical Investigations of 3-substituted Formazans.”

### **Professional Experience:**

Department of Chemistry, M.M. Modi College, Patiala, India (21 July, 2008 to till date)

### **Teaching Interests:**

- Physical Chemistry
- Statistical Thermodynamics
- Analytical Chemistry
- Quantum Chemistry

### **Research Interest:**

Analytical Chemistry, Chemo sensors, Material Science, Physical Chemistry

### **Publications**

1. **Sanjeev Kumar** Rajeev Sharma, Sanjay Kumar and Nitika (2014) Solvatochromic Behaviour of Formazans and contribution of Kamlet-Taft Coefficients towards Spectral shift of Formazans in different organic solvents. *Chemical Science Transactions* **3(3)**, 919-928. DOI:10.7598/cst2014.836  
<http://www.e-journals.in/abstract.asp?Totarticle=836>
2. **Sanjeev Kumar**, Rajeev Sharma, Sanjay Kumar, Nitika (2014) Evaluation of Thermodynamic and kinetic parameters of Formazans as Corrosion inhibitors for copper dissolution in 2N HCl solution *Current Trends in Biotechnology and Chemical Research* **1(4)**,54-62  
<https://shodhganga.inflibnet.ac.in/jspui/bitstream/10603/262551/1/110-182-1-sm%20-%20copy.pdf>
3. Sanjay Kumar, Arun Goyal, Harwinder S Sohal and **Sanjeev Kumar** (2013) A Facile One pot solvent free Synthesis of 14-Alkyl or aryl-14H-dibenzo[a]xanthenes and 12-Aryl/alkyl-8,9,10,12-tetrahydrobenzo[a]xanthen-11-one derivatives. *Chemical Science Transactions* **2(4)** 1459-1465 DOI:10.7598/cst2013.518

<http://www.e-journals.in/abstract.asp?Totarticle=518>

4. Nitika, **Sanjeev Kumar** and Rajeev Sharma Synthesis and characterization of Cobalt(III) Chelates of Symmetrical 2-Nitro-1,5-diarylformazans (2014) *Chemical Science Transactions* **3(2)** 670-675 DOI:10.7598/cst2014.793  
<http://www.e-journals.in/ijce/abstract.asp?totarticle=793>
5. Rajeev Sharma, Nitika and **Sanjeev Kumar** (2015) Spectral studies on bis (3-nitroformazan) Nickel (II) Chelates *Current Trends in Biotechnology and Chemical Research*,
6. Leena Chhabra, Gurnam Singh, Sanjeev Kumar and **Rajeev Sharma** 2016 Study of Antibacterial activity of *Leaf Extracts of Dalbergia Sisso (Roxb.)* *Journal of Chemistry, Environmental Sciences and applications* 3(1)  
<https://jce.chitkara.edu.in/index.php/jce/article/view/28>
7. Chitrangana Ahuja, **Sanjeev Kumar**, Kashish Ahuja and Rajeev Sharma (2017) Antibacterial activity of seeds of *Nigella Sativa* by Agar Well Difusion Method. *International Journal of Advanced Technology in Engineering and Science*. 5(1)
8. Kaur, Manavjot; **Kumar, Sanjeev** Sharma Rajeev 2016 Decolorization of Symmetrical and unsymmetrical 3-nitroformazans using *Coriolus Versicolor*. *Journal of Chemistry, Environmental Sciences and applications*.  
<https://jce.chitkara.edu.in/index.php/jce/article/view/39>
9. Rajeev Sharma Jyoti Shah and **Sanjeev Kumar** (2016)Indoor Pollutants: A threat to human health. *A book Souvenir on :Industrial Globalization and environmental awareness: Proceedings of the National seminar held by Department of Chemistry Govt. PG College Ambala Cantt. Haryana* ISBN -13:978-1533168078.
10. Jyoti Shah, **Sanjeev Kumar** and Nitika (2016) Presence of pesticides residues in Food: *Research Icon*.,**2(3)**,109 ISSN:2395-6585
11. **Sanjeev Kumar**, Jyoti Shah and Shubham Bansal (2016) Environmental pollution and health: *Research Icon* **2(3)**,234 ISSN:2395-6585
12. Rajeev Sharma and **Sanjeev Kumar** (2015) Human rights and Sikhism: *Research Icon* **1(3)**,71 ISSN:2395-6585
13. Jyoti Shah, **Sanjeev Kumar**, Sudha Sharma, Rajeev Sharma and Rupinder Sharma (2016)Removal of Nickel from aqueous solution by using low cost adsorbents: A Review : *International Journal of Scientific, Engineering and applied science* **2(7)** 48 ISSN:2395-3470  
<http://ijseas.com/volume2/v2i7/ijseas20160707.pdf>
14. **Sanjeev Kumar**, Chitrangana Ahuja, Mahesh Kumar, Shubham Bansal and Rajeev Sharma (2017) Study of anti-bacterial activity of *Syzygium aromaticum*, *International Journal of Advance Research in Science and engineering* **6(1)**,162
15. Sanjeev Kumar and **Rajeev Sharma** (2017) Phytochemical and antimicrobial activity of different citrus fruit peels.: *European Journal of Biomedical and Pharmaceutical Sciences*,4(8)

16. **Sanjeev Kumar** and Rajeev Sharma (2017) Synthesis , Characterization and Solvatochromism of some 3-nitro-1,5-diarylformazans: *International Journal of recent scientific Research* **8(7)** 18827-18235  
<http://recentscientific.com/sites/default/files/7994-A-2017.pdf>
17. **Sanjeev Kumar** and Rajeev Sharma (2017) Synthesis of 3-substituted-1,5-diarylformazans for their use as naked eye chemical sensor for detection of Cu<sup>2+</sup> and Hg<sup>2+</sup>. *International Journal of recent scientific Research* **8(7)** 18172-18178  
<http://dx.doi.org/10.24327/ijrsr.2017.0807.0463>

### **Review Articles**

1. Sanjeev Kumar and **Rajeev Sharma** (2017) Frontiers of Formazan Chemistry: A Review: *World Journal of Pharmaceutical Research* **6(8)** 800-841  
<https://wjpr.net/download/article/1501486057.pdf>

### **Book/Book chapter**

1. **Dr. Rajeev Sharma**, Dr. Yogita Bansal and Dr. Sanjeev Kumar (2017) Drug Abuse: Problem, Management and Prevention Problem of Drug Abuse, Semester-I (G.N.D.U) R.D. Publications, Jalandhar.

### **M.Sc Dissertations:**

05 (Completed, 2008-2019)

### **Workshops and training courses**

1. Attended one week training Program on advanced techniques of Chromatography NIPER Mohali (2013)
2. Attended UGC Sponsored Faculty Development Program at Multani Mal Modi College, Patiala. (1-15 July, 2014)
3. Attended UGC Sponsored Faculty Development Program at Multani Mal Modi College, Patiala. (9-16 January, 2017)

### **Achievements, Awards and Recognitions**

- Successfully organized **two national level conferences.**