

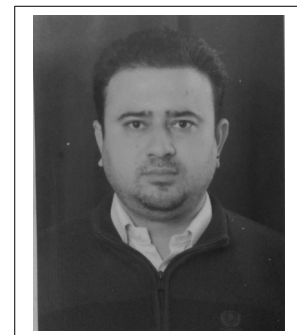
Name: Dr. Sanjeev Kumar

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. (26th 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 Cu²⁺ and Hg²⁺. *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.**