

Curriculum Vitae

- I. Name:** Dr. MANJOT KAUR
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III. Contact number: +91-9878987109
IV. Educational Qualifications:

S. No.	Exams passed	University/ Board	Subjects	%/CGPA
1.	Matriculation	Punjab School Education Board	Science, Mathematics, Social Studies, English, Hindi, Punjabi, Health & Physical Education	84.3%
2.	Senior Secondary	Punjab School Education Board	Physics, Chemistry, Maths	73.2%
3.	B.Sc.	Govt. Ranbir College, Sangrur (Punjabi University, Patiala)	Physics, Chemistry, Maths	65.9%
4.	M.Sc.	Thapar University, Patiala	Chemistry	9.42 (CGPA)
5.	B.Ed.	Akal College of Education, Mastuana Sahib, Sangrur (Punjabi University, Patiala)	Teacher in Emerging Indian Society, Development of Learner and Teaching-Learning Process, Development of Educational system in India, Essentials of Educational Technology and Management, Guidance and Counselling, Educational Measurement and Evaluation	74.4%
6.	Ph.D	Panjab University, Chandigarh	Chemistry	

V. Details about PhD:

Name of institute	Department of Chemistry & Centre of Advanced Studies, Panjab University, Chandigarh
Name of PhD supervisors	Prof. Sushil Kumar Kansal (Dr. SS Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh) and Prof. S.K. Mehta (Department of Chemistry & Centre of Advanced Studies, Panjab University, Chandigarh)
Title of PhD work	Synthesis and characterization of photoluminescent graphene based nanostructures and their potential applications as fluorescent sensor and photocatalyst

VI. List of Publications:

1. **Manjot Kaur**, Ahmad Umar, S.K. Mehta and S.K. Kansal, Reduced graphene oxide-CdS heterostructure: An efficient fluorescent probe for the sensing of Ag(I) and sunset yellow and a visible-light responsive photocatalyst for the degradation of levofloxacin drug in aqueous phase, *Applied Catalysis B: Environmental* 245 (2019) 143-158 (**Impact Factor: 19.503**)
2. **Manjot Kaur**, S.K. Mehta and S.K. Kansal, Nitrogen doped graphene quantum dots: Efficient fluorescent chemosensor for the selective and sensitive detection of 2,4,6-trinitrophenol, *Sensors and Actuators B* 245 (2017) 938-945 (**Impact Factor: 7.460**)
3. **Manjot Kaur**, S.K. Mehta and S.K. Kansal, A fluorescent probe based on nitrogen doped graphene quantum dots for turn off sensing of explosive and detrimental water pollutant, TNP in aqueous medium, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 180 (2017) 37-43 (**Impact Factor: 4.098**)
4. **Manjot Kaur**, S.K. Mehta and S.K. Kansal, Visible light driven photocatalytic degradation of ofloxacin and malachite green dye using cadmium sulphide nanoparticles, *Journal of Environmental Chemical Engineering* 6 (2018) 3631-3639 (**Impact Factor: 5.909**)
5. Ritika, **Manjot Kaur**, Ahmad Umar, S.K. Mehta and S.K. Kansal, BiF₃ octahedrons: A potential natural solar light active photocatalyst for the degradation of Rhodamine B dye in aqueous phase, *Materials Research Bulletin* 112 (2019) 376-383 (**Impact factor: 4.019**)
6. Ritika, **Manjot Kaur**, Ahmad Umar, S.K. Mehta, Surinder Singh, S.K. Kansal, H. Fouad and Othman Y. Alothman, Rapid Solar-Light Driven Superior Photocatalytic Degradation of Methylene Blue Using MoS₂-ZnO Heterostructure Nanorods Photocatalyst, *Materials* 11 (2018) 2254 (**Impact factor: 3.623**)
7. Ritika, **Manjot Kaur**, Ahmad Umar, S.K. Mehta, Surinder Singh and S. K. Kansal, Visible light photocatalytic degradation of organic pollutants using molybdenum disulfide (MoS₂) microtubes, *Nanoscience and Nanotechnology Letters* 9 (2017) 1966-1974 (**Impact factor: 1.128**)
8. Ritika, **Manjot Kaur**, Ahmad Umar, S.K. Mehta, S.K. Kansal, M. Ajmal Khan and H. Algarni, Rapid solar-light mediated photocatalytic degradation of brilliant green dye in aqueous phase Using BiPO₄ nanospindles and MoS₂/BiPO₄ nanorods, *Journal of Materials Science: Materials in Electronics* 30 (2019) 20741-20750 (**Impact factor: 2.220**)
9. Kamalpreet Kaur, **Manjot Kaur**, Amanpreet Kaur, Jasminder Singh, Narinder Singh, S.K. Mittal and Navneet Kaur, Polymer-based biocompatible fluorescent sensor for nano-molar detection of Zn²⁺ in aqueous medium and biological samples, *Inorganic Chemistry Frontiers* 1 (2014) 99-108 (**Impact Factor: 6.569**)
10. Anurag Jaswal, **Manjot Kaur**, S.K. Kansal, rGO-Bi₂MoO₆ heterostructure: Synthesis, characterization and utilization as a visible light active photocatalyst for the degradation of tetracycline *Journal of Materials Science: Materials in Electronics* 32 (2021) 9822-9840 (**Impact factor: 2.220**)
11. Anurag Jaswal, **Manjot Kaur**, S. Singh, S.K. Kansal, A. Umar, C.S. Garoufalidis, S. Baskoutas, Adsorptive removal of antibiotic ofloxacin in aqueous phase using rGO-MoS₂ heterostructure 417 (2021) 125982 (**Impact Factor: 10.588**)
12. **Manjot Kaur**, S.K. Mehta and S.K. Kansal, "Application of graphene oxide based nanocomposites in heterogeneous photocatalysis for the treatment of organic contaminants", A book chapter published in book entitled: *Graphene Oxide Advances in Research and Applications*, Nova Science Publishers, Inc. New York.

VII. List of (a) conferences and symposiums attended:

1. Poster presentation in **Asian Network for Natural & Unnatural Materials** organized by Department of Chemistry & Centre of Advanced Studies in Chemistry, Panjab University, Chandigarh during February 28 – March 2, 2015.
2. Poster presentation in **National Seminar on Sustainable Renewable Energy Generation – Current Scenario** organized by Energy Research Centre, Panjab University, Chandigarh on March 21, 2015.
3. Poster presentation in **National Seminar on Environmental Management, Sustainable Development and Human Health** organized by Dr. S.S. Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh on March 25, 2015.
4. Poster presentation in **Professor R.C. Paul National Symposium on “Progressive Trends in Chemical Sciences”** organized by Department of Chemistry & Centre of Advanced Studies in Chemistry, Panjab University, Chandigarh on January 23, 2016.
5. Participated in **10th CRSI - RSC Joint Symposium** organized by Institute of Nano science and Technology and Panjab University, Chandigarh on February 4, 2016.
6. Poster presentation in **18th CRSI National Symposium in Chemistry** organized by Institute of Nano Science and Technology and Panjab University, Chandigarh during February 5-7, 2016.
7. Poster presentation in **Harnessing Engineering, Technology & Innovation for sustainable growth (HETIS 2016)** organized by Dr. S.S. Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh during September 30-October 1, 2016.
8. Poster presentation in **Fourth international conference on advanced oxidation processes AOP 2016** organized by Birla institute of technology & science, Pilani, K.K. Birla Goa campus, Goa, in association with Society of Environmental Chemistry & Allied Sciences, (SECAS), India during December 17-20, 2016.
9. Poster presentation in **Professor R.C. Paul National Symposium on Current advances in Chemical Sciences** organized by Department of Chemistry & Centre of Advanced Studies in Chemistry, Panjab University, Chandigarh during February 24-25, 2017.
10. Poster presentation in **National conference on Futuristic aspects in Chemical Science & Technology (FACT – 2018)** organized by Department of SAIF/CIL, Panjab University, Chandigarh during April 28-29, 2018.

(b) Workshops and programs attended

1. Participated in **Workshop on Research Methodology** under Technical Education Quality Improvement Programme (TEQIP-II) organized by Dr. S.S. Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh during October 19-21, 2015.
2. Participated in Global initiative for academic networks (GIAN) course on **Amphiphilic molecules and self-assembly: principles and applications** organized by Department of SAIF/CIL, Panjab University, Chandigarh from March 22-28, 2016.
3. Participated in **National Workshop on UV-vis, FTIR, XRD, FE-SEM and TEM techniques** under Technical Education Quality Improvement Programme (TEQIP-II) organized by Dr. S.S. Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh during April 25-30, 2016.

4. Participated in Global initiative for academic networks (GIAN) course on **Heterogeneous catalysis and applications** organized by Department of SAIF/CIL, Panjab University, Chandigarh from August 01-05, 2016.
5. Participated in **Indo-UK scoping workshop on Development of rural biorefineries in India: A scoping exercise** organized by Department of SAIF/CIL, Panjab University, Chandigarh on February 22, 2017.
6. Participated in **Workshop on Research Methodology** under Technical Education Quality Improvement Programme (TEQIP-II) organized by Dr. S.S. Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh from March 20-22, 2017.
7. Participated in Global initiative for academic networks (GIAN) course on **Nanostructured metal oxides for sensing and environmental applications** organized by Department of SAIF/CIL, Panjab University, Chandigarh from August 06-10, 2018.
8. Participated in **Indo-UK Workshop on Waste Water treatment: Approaches, Management and Capacity building** organized by Panjab University, Chandigarh & University of Hull, Hull, UK held at Sophisticated Analytical Instrumentation Facility (SAIF), Panjab University, Chandigarh during July 03-05, 2019.

VIII. Other achievements:

- ❖ Secured second position in M.Sc. at Thapar University, Patiala
- ❖ Accomplished a six month research project entitled “**Potentiometric studies on some zinc selective ionophores**” during M.Sc. at Thapar University, Patiala
- ❖ Recipient of UGC-BSR fellowship
- ❖ Qualified Punjab State Teacher Eligibility Test (PSTET) in 2016
- ❖ Awarded best Poster in **National Seminar on Environmental Management, Sustainable Development and Human Health** held at Dr. S.S. Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh held on March 25, 2015
- ❖ Awarded best Poster in **Indo-UK scoping workshop on Development of rural biorefineries in India: A scoping exercise** held at Department of SAIF/CIL, Panjab University, Chandigarh held on February 22, 2017
- ❖ Expertise on operating some instruments such as UV-vis spectrophotometer, fluorescence spectrometer, total organic carbon analyzer, BET surface area analyzer and data interpretation using X'PERT high score plus software, casa XPS software, chemdraw, image J software.

DECLARATION:-

I certify that the foregoing information is correct and complete to the best of my knowledge and belief and nothing has been concealed.

Place: Sangrur

Manjot Kaur