



**Dr. Manish Kumar**  
Assistant Professor

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- Contact Details:** Department of Chemistry and Chemical Sciences, Central University of Himachal Pradesh, TAB- Shahpur, Distt. Kangra, H.P.  
Ph:8219659912
- Academic Qualification:** Ph.D : Himachal Pradesh University , Shimla.  
M.Phil: Himachal Pradesh University, Shimla.  
M.Sc: Guru Nanak Dev University, Amritsar.  
JRF, NET, SET, GATE
- Positions Held:**
1. Assistant Professor, Department of chemistry and chemical Sciences, CUHP since 16 Jan 2020.
  2. Assistant Professor, Department of chemistry and Biochemistry, College of Basic Sciences, CSKHPKV, Palampur (28 Jan 2019-15 Jan 2020).
  3. Assistant Professor, Department of chemistry, Sri Sai University, Palampur. (3 Oct 2016- 28 Jan 2019).
- Specialisation:** Solution Chemistry and Physical Chemistry
- Research Interest:** Solution Chemistry, Nanomaterials and Environmental Chemistry.
- Publications:**
1. Atul, **Manish Kumar**, Anjna Sharma, Indresh Kumar Maurya, Alpna Thakur & Sunil Kumar (**2019**). Synthesis of ultra small iron oxide and doped iron oxide nanostructures and their antimicrobial activities, Journal of Taibah University for Science, 13:1, 280-285.
  2. Atul Soni, Sunil Kumar, Deepika kaushal, Nidhi Sharotri, Indresh Kumar Maurya, Jadab Sharma, Anjna Sharma, **Manish Kumar**

**(2019)**.Synthesis of Quantum Confined Nickel Oxide and Differentially Doped Nickel Oxide Nanostructure and Their Antifungal Activities. Advanced Science, Engineering and Medicines, 11(6), 465-470(6).

**3. Manish Kumar**, Shashi Kant, Deepika kaushal **(2018)**. Volumetric, viscosity and conductance studies of solute-solute and solute-solvent interactions of some alkali metal chlorides in aqueous citric acid at different temperatures. Zeitschrift für Physikalische Chemie 233(2), 255-272.

**4.** Deepika Kaushal, Dilbag S. Rana, **Manish Kumar**, Kailash Singh, Kuldeep Singh, Suvarcha Chauhan and Ahmad Umar **(2018)**. Furosemide-Cetyltrimethylammonium Bromide Interactions in Aqueous Dimethylsulfoxide Solutions: Physico-Chemical Studies. Zeitschrift für Physikalische Chemie 233(3), 413-430.

**5.** Meenakshi, Sanjay Kumar, Sudhir Saralch, Naresh Dhiman, **Manish Kumar**, Dinesh Pathak **(2018)**. Dip Coated ZnO Films for Transparent Window Applications. JOURNAL OF NANO- AND ELECTRONIC PHYSICS 10(5), 05038(5pp).

**6.** Sunil Kumar, **Manish Kumar**, Alpana Thakur, Sushma Patial, **(2017)**.Water Treatment using Photocatalytic and antimicrobial activities of tin oxide nanoparticles. Indian Journal of Chemical Technology 24,435-440.

**7.** Atul Soni, **Manish Kumar**, Sunil Kumar, Nidhi Sharotri, Deepika Kaushal, Co-Precipitation Method: An Approach Used for the Synthesis and Characterization of Iron Oxide Nanoparticle, National Conference on Emerging Scenerio in Basic and Applied Sciences for Sustainable Development, At DAV College Bhatinda, 05 April 2018, **Conf. Proc**, ISBN number 978-93-87276-93-2.

**8.** Neha Rana, Atul Soni, Deepika Kaushal, Nidhi Sharotri, **Manish Kumar**, Sunil Kumar, Preparation of NiO nanoparticles: Synthesis and Characterization, AIP Conf. Proc 2019,978-93-87276-93-2.Nationl Conference on Emerging Scenerio in Basic and Applied Sciences for Sustainable Development, at DAV College Bhatinda, 05 April 2018, **Conf. Proc**, ISBN number 978-93-87276-93-2.

**9. Manish Kumar**, Deepika Kaushal, Nidhi Sharotri, Studies of calcination temperature and doping concentration on phase transformation of synthesized cation doped TiO<sub>2</sub>, National Conference on Emerging Scenario in Basic and Applied Sciences for Sustainable Development, at DAV College Bhatinda, 05 April 2018, Conf. Proceeding, ISBN number 978-93-87276-93-2.

**10.** Sunil Kumar, Neha Rana, **Manish Kumar**, Ashvinder Rana and Samjeet Singh Thakur. Book Chapter, Biopolymer modifications using ionic liquids for industrial and environmental applications, Modified Biopolymers Challenges and Opportunities. Polymer Science and Technology, Nova Science Publishers, New York. ISBN: 978-1-53612-137-7.

Research Projects Completed/Ongoing:	-
M.Phil. Supervised/ M.Sc Project Guided	05
Ph.D. Supervised:	01(Submitted)
Ph.D. Supervising:Respected Sir,	-

Kindly find the attachment and reply as soon as possible.

Participation in Seminars/Conferences:	<ol style="list-style-type: none"><li>1. Neelam Sharma and <b>Manish Kumar</b> Presented, An Overview on Pesticides use in Agriculture and Potential Hazards on Interface between Basic sciences Research, Modern Technology and Environmental Sustainability” held at Sri Sai University Palampur on 3rd May 2019.( Abstract + Oral talk)</li><li>2. <b>Manish Kumar</b>, Deepika Kaushal, Nidhi Sharotri Presented, Effect of Calcination temperature and molar ratio on phase transformation of synthesized cation doped TiO<sub>2</sub> on NCRTEP (2017) held at Sri Sai University Palampur (23-24 Nov 2017). (Abstract + Poster)</li></ol>
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3. **Manish Kumar** and Atul Presented, Synthesis and characterization of Bare - NiO and doped NiO nanoparticles on NCRTEP(2017) held at Sri Sai University Palampur (23-24 Nov 2017). (Abstract + Poster).
4. **Manish Kumar**, Presented, Comparative study of Bare -CuO and doped CuO nanoparticles in Multidisciplinary National Conference on "Innovative Trends in Science, Technology and Management-IV 2017 held at Sri Sai University Palampur (24 Aug 2017).(Abstract + Poster)
5. **Manish Kumar**, Presented, Thermal and Electrical studies of Graphite oxide and reduced graphene oxide prepared by wet chemical methods in International Conference on "Science : Emerging Scenario and Future Challenges organized by Him Science Congress Association (2016)(Abstract + Oral talk)
6. **Manish Kumar**, Vikas Bharti, Presented Free Energy and Acoustic Studies of Transition Metal Sulphates in Aqueous Ascorbic Acid. Multidisciplinary National Conference on Innovative Trends in Science, Technology and Management-II (MNCITSTM- II) 2015 held at Sri Sai University, Palampur. (19 June, 2015).(Abstract + Paper)
7. **Manish Kumar**, Vikas Bharti, Shashi Kant, Presented, Acoustical studies of some transition metal sulphates in 10% Dextrose in 0.1 M aqueous NaCl at different temperatures. National Seminar on "Advances in Environmental Sciences, NSAES-2012" held at Shoolini University, Solan (H.P.) (Aug. 24, 2012).(Abstract + Poster)
8. **Manish Kumar**, Sunil Kumar, Vikas Bharti, Shashi Kant, Presented, Interactions of transition metal ions in multi component system: an ultrasonic approach. National seminar on "Frontiers in Polymer Science" held at Himachal Pradesh University, Shimla (H.P.) (Nov.18-19, 2011). (Paper)
9. **Manish Kumar**, Sunil Kumar, Vikas Bharti, Shashi Kant, Presented, Viscosity

and conductance of some metal chlorides in modified aqueous solvents. National symposium on “Chemistry innovations for human well being (CIHW-2011)” held at Himachal Pradesh University, Shimla (H.P.) (Oct.21-22, 2011).(Paper)

**Membership of Learned Societies/ Professional Bodies:**

1. Life member of “The Indian Thermodynamics Society”.LM-170
2. Life member of “Him Science Congress Association”

**Awards & Honours Received:**

1. Qualified CSIR-JRF : June 2010.
2. Qualified CSIR-NET : Dec 2009 and Dec 2010.
3. Qualified State Eligibility Test (SET): 2008
4. Qualified Graduate Aptitude Test in Engineering (GATE)-2010.

**Others:**

1. Co-coordinator of 45 days training programme organized by Department of Chemistry and Biochemistry, College of Basic Sciences , CSKHPKV, Palampur from 25 May 2019 to 10 July 2019.
2. HoD in the Department of Chemistry, Sri Sai University, Palampur from 19 Feb 2018 to 2 Aug 2018.
3. Organizing Secretary in “Multidisciplinary National Conference on “Innovative Trends in Science, Technology and Management-IV 2017 held at Sri Sai University Palampur (24 Aug 2017)
4. Reviewer of Journal, Ionics (Springer).

