

CURRICULUM VITAE

Name : Dr. DEVENDRA SINGH

Designation : Assistant Professor

Department of Physics, Babasaheb Bhimrao Ambedkar University (A Central University), Vidya Vihar, Raebareli Road, Lucknow (U.P.) 226025

Teaching experience : 08 years

email id : devendras193@gmail.com

Ph.D. : *Non-Heme Metal Complexes- A Versatile Design for Pharmaceutical Reaction, Environmental Pollutants and Chemical Warfare Detoxification: A Quantum Mechanical Study*, under supervision of Prof. Devesh Kumar, Department of Applied Physics, Babasaheb Bhimrao Ambedkar University, Lucknow.

Research Interest:

- Molecular Modelling
- Applied Optics/Optoelectronics

List of Publications:

1. Spectroscopic Properties of PCH liquid crystal molecule studied by DFT methodology, A. K. Dwivedi, Bhavna Pal, Narinder Kumar, Asheesh Kumar, Pawan Singh, Khem B Thapa, Devendra Singh*, Journal of information and computational science, 2019, 9(7), 264-281.
2. Study of transmission property of periodic layer consisting of SiO₂ and TiO₂ layers with anisotropic liquid crystal (LC) and LiNbO₃ as defect layers for optical switching, Khem B. Thapa, **Devendra Singh**, Pawan Singh, Narinder Kumar, Devesh Kumar, Results in Physics, 2019, 13(102346), 1-10 (IF: 3.042).
3. Effective optical properties of one-dimensional periodic structure of TiO₂ and SiO₂ layers with a defect layer of nano-composite consisting of silver nanoparticle and E7 liquid crystal, Pawan Singh, Khem B Thapa*, Narinder Kumar, Devendra Singh, Devesh Kumar, Pramana- J. Phys., 2019, 93:50, 1-14 (IF: 1.185).
4. Origin of the enhanced reactivity of μ -nitrido-bridged diiron(IV)-oxo porphyrinoid complexes over cytochrome P450 Compound I, Matthew G. Quesne, Dhurairajan Senthilnathan, **Devendra Singh**, Devesh Kumar, Pascale Maldivi, Alexander B Sorokin, Sam P de Visser, ACS Catalysis, 2016, 6, 2230-2243 (IF: 12.221).

5. A Trimetal Carbene with Reactivity Reminiscent of Fischer-Tropsch Catalysis, Mala A. Sainna, Devendra Singh, Devesh Kumar, Sam P. de Visser, *Organometallics*, 2015, 34, 1651-1660 (IF: 4.1).
6. Methane Hydroxylation by Axially Ligated Iron (IV)-oxo Porphyrin Cation Radical Models, *International Journal of Science, Technology and Society*, **Devendra Singh**, Devesh Kumar, Sam P. de Visser, 2015, 1(2), 29-43.
7. A Review on Quantum Mechanical Calculation of Rotational Constants for Interstellar Organic Molecules, *International Journal of Science, Technology and Society*, Khemendra Shukla, **Devendra Singh**, Devesh Kumar, 2015, 1(2), 53-61.
8. Properties and reactivities of nonheme iron(IV)-oxo versus iron(V)-oxo: long-range electron transfer versus hydrogen atom abstraction, Baharan Karamzadeh, **Devendra Singh**, Wonwoo Nam, Devesh Kumar, Sam P. de Visser, *Phys. Chem. Chem. Phys.*, 2014, 16, 22611-22622 (IF: 3.567).

Citations (Source- Google scholar):

Total Citations (Source: Google scholar)	51
h-index	03
i10	01
Total impact factor	24.115
Average impact factor	3.0144

Conferences Attended:

1. 3rd Indo-German conference *Modeling Chemical and Biological (Re)activity*, held at NIPER & IISER, Mohali (26th Feb-1st March, 2013)
2. National Conference on *Application of High Pressure Techniques & Novel Materials in the Frontiers of Science*, held at National Centre of Experimental Mineralogy and Petrology, University of Allahabad (25th -26th October, 2013)
3. International Conference on *Nanoscience and Nanotechnology*, held at BBAU Lucknow (18th-20th November, 2013)
4. 2nd Lucknow Science Congress, held at BBAU Lucknow (27th -28th March, 2014)
5. International Conference on *Structure and Dynamics of Biomolecules*, held at D.D.U. Gorakhpur University (27th – 28th January, 2017)
6. 5th Indo-German international conference *Modeling of Chemical and Biochemical (Re)activity 2017*, held at Central Leather Research Institute, Chennai (18th -21st February, 2017).

Administrative positions held:

1. Member, Departmental IQAC cell (2011-2013)

2. Member, University level Workshop committee (since Jan, 2013)
3. Co-coordinator, newly created School for Engineering and Technology (April, 2013- July 2016)
4. Member, Working Committee, online entrance examination 2014.
5. Member, Departmental Admission Committee.
6. Mentor to M. Sc. students.
7. Advisor to Open elective courses under CBCS methodology.

Academic Qualifications:

1. Qualified GATE 2008.
2. Qualified CSIR-UGC NET exam held in Dec. 2007.
3. Ph. D., 2018.
4. Post graduate diploma in Quality Management, 2008.
5. M. Sc. (Physics), 2006.
6. B. Sc. (Physics, Maths, Electronics), 2004.

Personal Information:

Name : Devendra Singh
Father's name : Shri Shrawan Singh
Mother's name : Smt. Manvati Devi
Marital Status : Married
Languages Known : Hindi, English, French
Interests : Books, Movies, Music

Dated: 01/08/2019

Dr. Devendra Singh