

Research & Academic Profile

Name: Dr. Mohit S. Swadia

Qualifications: B.Sc. (Physics), M.Sc.,
M.Phil, Ph.D.

Academic Position: Assistant Professor (Physics) & Head

Affiliation: HVHP Institute of Post Graduate Studies and Research, Kadi

PhD registration Uni. Kadi Sarva Vishwavidyalaya, Gandhinagar

Area of Interest: Theoretical Atomic and Molecular Physics, Computational Physics, Quantum Mechanics and Quantum Chemistry

No. of Attended Conferences:

Sr.	Attended Conf. / Workshops/ SERC School/ One Day Seminar	International / National	Year	Oral/ Poster	Place	Remarks
18	NCAMP-XXI	National	2017	Oral	PRL, Ahmedabad	--
17	ESPAM-2017	State Level	2017	Oral	VP&RPTP, VVNagar	--
16	GSC-2017	State Level	2017	Poster	PDPU, Gandhinagar	--
15	NCAMP-XX	National	2014	Poster	IIST, Tiruvananthpuram	--
14	GSC-2014	State Level	2014	Oral	HNGU, Patan	--
13	SciExl-2014	State Level	2014	Poster	Guj. Uni., Ahmedabad	First rank in Poster Presentation
12	ISAMP-TC-2013	National	2013	Poster	IPR, Gandhinagar	--
11	YPC-2013	National	2013	Oral	SINP, Kolkata	--
10	MMPSE-2013 (Training Program)	State Level	2013	--	SVNIT, Surat	--
9	ECPAMP-2013	National	2013	Oral	V P & R P T P, VVNagar	Best Oral Presentation Award
8	DST-SERC School	National	2013	Oral	HBCSE, TIFR, Mumbai	--

7	WHCI-2012	National	2012	Poster	TIFR, Mumbai	--
6	HPSC-2012	National	2012	Oral	PRL, Ahmedabad	--
5	BSFAST-2012	National	2012	Oral	Bhav. Uni, Bhavnagar	--
4	EESPS-2012	State Level	2012	Poster	SPU, VVNagar	--
3	GSC-2012	State Level	2012	Oral	MSU, Baroda	--
2	CTRAPSG-12	State Level	2012	Poster	SPU, VVNagar	--
1	CDAMOP-2011	International	2011	---	Delhi Uni., Delhi	--

Publications:

- 1) Electron-driven processes for furan, tetrahydrofuran and 2, 5-dimethylfuran.
Mohit Swadia, Rakesh Bhavsar, Yogesh Thakar, Minaxi Vinodkumar & Chetan Limbachiya
Molecular Physics, (2017) **115 (20)**, 2521-2527. [**I.F.-1.870**]
- 2) Theoretical electron impact total cross sections for Tetrahydrofuran (C₄H₈O).
Mohit Swadia, Yogesh Thakar, Minaxi Vinodkumar, Chetan Limbachiya
European Physical Journal D, (2017) **71(4)**, 85. [**I.F.-1.288**]
- 3) Electron-impact total cross sections for inelastic processes for furan, tetrahydrofuran and 2,5-dimethylfuran
Chetan Limbachiya, Minaxi Vinodkumar, Mohit Swadia, K.N. Joshipura & Nigel Mason
Molecular Physics **113** (1) (2015) 55-62 [**I.F.-1.642**]
- 4) Electron impact total cross sections for components of DNA and RNA Molecules
Minaxi Vinodkumar, Chetan Limbachiya, Mayuri Barot, Avani Barot, Mohit Swadia
International Journal of Mass Spectrometry **360** (2014) 1– 7 [**I.F.-2.14**]
- 5) Electron impact total cross section calculations for CH₃SH (methanethiol) from threshold to 5 keV
Chetan Limbachiya, Minaxi Vinodkumar, Mohit Swadia & Avani Barot
Molecular Physics **112** (2014) 101-106 [**I.F.-1.670**]
- 6) Electron impact total ionization cross sections for components of DNA and RNA Molecules
Minaxi Vinodkumar, Chetan Limbachiya, Mayuri Barot, Mohit Swadia, Avani Barot
International Journal of Mass Spectrometry **339– 340** (2013) 16– 23 [**I.F.-2.14**]
- 7) Electron impact total cross sections for furan molecules
Conference Proceeding, (ECPAMP-2013) (2013), Narosa Publications

Job Experience:

- From June 2009 to June 2010 at Institute for Plasma Research (IPR) as a Scientific Assistant
- UGC-Major Research Project Fellow (2011-2014)
- From June 2014 to till date at HVHP Institute for Post Graduate Studies and Research, Kadi as an Assistant Professor & Head of Physics Department.

Other information:

- Life time member of The Indian Physical Society (IPS), Kolkata.
- Life time member of Indian Society of Atomic and Molecular Physics (ISAMP), Ahmedabad
- Life time member of Indian Association of Physics Teacher (IAPT)