

## CURRICULUM VITAE

- 1. Name** : Avinash Singh Thounaojam  
**2. Designation** : Assistant Professor  
**3. Office Address** : Department of Chemistry  
Poona College of Arts, Science & Commerce,  
Camp  
Pune - 411 001  
E-mail: avinash.singh@poonacollege.edu.in
- 4. Date of Birth** : 01:03:1972



### 5. Academic Qualification

Degree	Year	Institution/ Board	Country
Post-Doctoral	2008-2011	Technische Universität Darmstadt	Germany
Post-Doctoral	2006-2007	National Chiao Tung, University	Taiwan
Post-Doctoral	2005-2006	National Central University	Taiwan
Ph. D.	1996-2002	Pune University	India
JRF-NET	1996	CSIR Examination	India
M. Sc.	1994-1996	Pune University	India

### 6. Teaching Experience

Duration	Position Held	Organization
2001-2004	Lecturer	Department of Chemistry, S.P. Pune University
2011-2013	Assistant Professor	College of Engineering, MIT, Pune
2013-2021	Assistant Professor	Poona College of Arts, Science & Commerce, Pune

- 7. PhD Topic** : Radiation Chemical Studies of Substituted Benzenes and Heterocyclic Compounds by Pulse Radiolysis
- 8. Area of Interest** : Physical Chemistry, Spectroscopy, Computational Chemistry,

## Nanochemistry

**9. Courses Taught** : General Physical Chemistry and Analytical Chemistry for UG students, Thermodynamics, Chemical Kinetics, Molecular Spectroscopy, Nuclear Chemistry

**10. Other Innovative Activities** : Initiated a Linus Pauling Club at Poona College for Advanced Learners in 2019.

### 11. Membership of Learned Societies and Administrative Bodies;

- Hold Life-membership of Association of Chemistry Teachers, India

### 12. Abroad Visits

- National Central University, Taiwan for Post-doctoral Research
- National Chiao-Tung University, Taiwan for Post-doctoral Research
- Technical University Darmstadt, Germany for Post-doctoral Research

### 13. Publication Details

#### a) Name of the Journals/ Books in which papers are published

- Radiation chemical oxidation of aniline derivatives, Thounaojam A. Singh, S. P. Gejji, B. S. M. Rao, Hari Mohan and J. P. Mittal, J. Chem. Soc. Perkin Trans 2, 2001, 1205-11.
- A pulse radiolysis study of coumarin and its derivatives, Thounaojam A. Singh, B. S. M. Rao, Hari Mohan and J. P. Mittal, J. Photochem. Photobiol A: Chem., 2002, 153, 163-171.
- National Centre for Free Radical Research: A BRNS-DAE Project, Thounaojam A. Singh and B. S. M. Rao, IANCAS Bulletin, 2003, Vol II No. 1, 75-80.
- Fluorescence excitation spectra of the  $b^1\pi_u$ ,  $b^1\Sigma_u^+$ ,  $c^1\pi_u$  and  $c^1\Sigma_u^+$  states of  $N_2$  in the 80-100 nm region, C. Y. Robert Wu, Hok-Sum Fung, Kuang-Yu Chang, Thounaojam A. Singh, Xiao-Lan Mu, Jan B. Nee, Su-Yu Chiang and D. L. Judge, J. Chem. Phys., 127, 084314, 2007.
- Intramolecular Donor-Acceptor Regioregular Poly(3-hexylthiophene)s Presenting Octylphenanthrenyl-Imidazole Moieties Exhibit Enhanced Charge Transfer for

Heterojunction Solar Cell Applications, Yao-Te Chang, So-Lin Hsu, Guan-Yu Chen, Ming-Hsin Su, Thounaojam A. Singh, Eric Wei-Guang Diao, Kung-Hwa Wei, *Advanced Functional Materials*. 18, 2356-2365, (2008).

- Radical Chemistry of 8-oxoadenosine and 8-oxoguanosine: A Pulse Radiolysis Study, Thounaojam Avinash Singh, B.S.M. Rao, Peter O'Neill, *J. Phys. Chem. B*. 114, 16611-16617 (2010).
- Simultaneous measurements of CO and temperature in an Impinging Burner, Thounaojam Avinash Singh, Markus Mann, Thilo Kissel, Jan Brübach, Andreas Dreizler, *Flow Turbulence and Combustion*, DOI 10.1007/s10494-011-9384-6 (2012).
- The Impact of Nanotechnology on Medicine, Avinash Singh Thounaojam and M. Rafique Sarkhawas, *Environment Observer*, ISSN 2320-5997, 137-142 (2014).
- A study of the Photoabsorption Spectra of Ethylene and Allene, Avinash Singh Thounaojam, *International Journal of Engineering Technology Science and Research*, ISSN 2394-3386, Volume 3, 1-11 (2016).
- A theoretical study of the reactions of OH radical with 8-oxoadenosine, Avinash Singh Thounaojam, *International Journal of Research Culture Society*, ISSN 2456-6683, Issue 5, 26-29 (2018).
- Synthesis of gold and silver nanoparticles using *Phlogacanthus Thyrsiformis* extracts-its phytochemical screening and anti-oxidant studies, Avinash Thounaojam Singh, I.N. Shaikh and Madhura V. Rale, *Materials Today: Proceedings* 43, 2805-2809 (2021).

**b) Papers published in Conferences / Seminars**

- International Conference on Multifunctional and Hybrid Materials for Energy & Environment, Satara, 28-30 January, 2020.
- Emerging Trends in Chemical Sciences, Poona College, Pune, February 9-10, 2018.
- Advances in Organic Chemistry, Poona College, Pune, February 5-6, 2016.
- National Conference of Climate Change, Pune, January 12-13, 2015.
- Advances in the Drug Design and Discovery, Pune, January 24-25, 2014.

**c) Papers presented in Conferences / Seminars**

- International Conference on Multifunctional and Hybrid Materials for Energy & Environment, Satara, 28-30 January, 2020.

- National Conference of Climate Change, Pune, January 12-13, 2015.
- National Workshop on Nanoscience & Nanotechnology, MIT, Pune, January 6-7, 2012

#### **14. Participation in National/International One Week -duration Workshops**

- National level Workshop on Sophisticated Instrumentation for Advanced Research, SPPU, 5-9 March, 2019.
- National Workshop on Cheminformatics for Chemistry Teachers, SPPU, 13-18 January, 2020.
- One Week Faculty Development Program on Multimedia Enriched E-Content Development, Guru Angad Dev Teaching and learning Centre, 21-26 May, 2020.

#### **15. Participation in Conferences / Seminars / Workshops;**

- International Conference on Multifunctional and Hybrid Materials for Energy & Environment, Satara, 28-30 January, 2020.
- Emerging Trends in Chemical Sciences, Poona College, Pune, February 9-10, 2018.
- Advances in Organic Chemistry, Poona College, Pune, February 5-6, 2016.
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#### **16. Contributions to Corporate Life**

- NIL

#### **17. Supervising the Ph.D. Candidates:**

- NIL



(Dr. Avinash Singh Thounaojam)