



GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY

PASCHIM MEDINIPUR, PIN 721135, WEST BENGAL

1. Name:

DR. SOUMYA SUNDAR MATI

2. Designation

Assistant Professor

3. Department:

CHEMISTRY

4. Highest academic degree:

Ph.D.

5. Specialization:

CHEMISTRY (Physical Chemistry)



6. Contact number:

8697971976

7. E-mail:

soumyamati@gmail.com

8. Date of joining to the service:

11.12.2015

9. Colleges served:

Name of the College	From	Till
Govt. General Degree College, Singur	11.12.15	29.07.16
Govt. General Degree College, Keshiary	30.07.16	Present

10. Area of research interest:

- 1 Spectroscopy and Photophysical Studies of bioactive molecules.
- 2 Interaction study of newly synthesised bioactive molecules with sequence specific DNA and oligonucleotides.
- 3 Computational calculations for optimizing ground and excited state molecules, FMO and correlation of spectral data with experimental findings.
- 4 Theoretical modeling of bioactive molecules with biomacromolecules.
- 5 d-block metal cation sensing and complex formation.
- 6 Biomedical application of functionalised nanomaterials

11. Publications:

Paper/Research article		Book/book-chapter		Citation	ΣIF	h-index	i-index	Abstracts
International	National	International	National					
25	1	1	2	486	87.02	12	16	9

11. Awards/achievement of special mention:

- 1 Awarded DR. D. S. Kothari Post-Doctoral Fellowship, 2015
- 2 CSIR-UGC National Eligibility Test (NET), 2011, 2010, 2010
- 3 GATE, Chemistry, 2010
- 4 Rank 3rd in B.Sc 2008 in The University of Burdwan

12. Research project/extramural grant mobilized:

Funding agency/body	Amount(Rs.)	Name of the research project	From	Till
DST-SERB	5 lakh/year	"A Comprehensive ... Analysis"	November, 2019	Continue

13. Patent (International/National)

14. Editorial board member/ Reviewer of any journal/literary body:

- 1 Editorial member of "*American Journal of Physical Chemistry(AJPC)*" ISSN: 2327-2430 (Print) ; ISSN: 2327-2449 (Online)
- 2 Reviewer: *Analytica Chimica Acta* (Elsevier), ISSN 0003-2670 (print) 1873-4324 (web)

15. Member of learned society:

- 1 **American Chemical Society (ACS) [Membership No. 30887030]** 08.07.15-08.07.18

16. List of full length publications (year wise in descending order):

- 29 **Soumya Sundar Mati***, P. Paul, *Chemistry and Biology: Sustainable Progress in Human*, Scientific World, Kolkata, West Bengal 700007, Book Chapter 13, **2020**, 174-182. [ISBN: 978-93-84387-76-1].
- 28 **Soumya Sundar Mati***, *Proceedings of Recent Trends in Nanomaterials and Nanobiomaterials*, LAP LAMBERT Academic Publishing, 17 Meldrum Street, Beau Bassin 71504, Mauritius, Book Chapter 3, **2020**, 18-22. [ISBN: 978-620-2-79831-0]
- 27 P. Paul, **S. S. Mati**, G. S. Kumar, *J. Photochemistry & Photobiology, B.* **2020**, 204, 111804
- 26 B. Samai, A. Basu, **S. S. Mati**, S. C. Bhattacharya, *Materialia* **2019**, 6, 100285
- 25 **Soumya Sundar Mati***, D. Singharoy, B. Samai, S. Konar, N. Santra, S. Pal, P. Das, S. Murmu *J. Mol. Struct.* **2019**, 1184, 102-109
- 24 B. Samai, **S. S. Mati**, D. Singharoy, S. C. Bhattacharya, *Chemistry Select* **2019**, 4, 4739-4746
- 23 B. Samai, **S. S. Mati**, S. C. Bhattacharya *J. Indian Chem. Soc.* **2018**, 95, 945-949
- 22 B. Samai, S. Chall, **S. S. Mati**, S. C. Bhattacharya, *Eur. J. Inorg. Chem.* **2018**, 2018, 3224-3231
- 21 D. Singharoy, S. Chowdhury, **S. S. Mati**, S. Ghosh, K. Chattopadhyay, S. C. Bhattacharya, *Chem. Eur. J.* **2017**, 23, 16516 – 16524
- 20 D. Singharoy, **S. S. Mati**, S. Ghosh, S. C. Bhattacharya, *Colloids and Surfaces B: Biointerfaces* **2017**, 160, 84–91.
- 19 S. Chall, **S. S. Mati**, I. Das, A. Kundu, G. De, K. Chattopadhyay, *Langmuir* **2017**, 33, 12120–12129.
- 18 P. Paul, **S. S. Mati**, S. C. Bhattacharyab, G. Suresh Kumar, *Phys. Chem. Chem. Phys.* **2017**, 19, 6636-6653
- 17 P. Paul, **S. S. Mati**, S. C. Bhattacharya, G. Suresh Kumar, *Dyes and Pigments* **2017**, 136, 205-218.
- 16 **S. S. Mati**, S. Sarkar, D. Singharoy, 'The Importance of Intermolecular Interactions in Solid-State X-Ray Crystal Structures.' *New Academic Publishers*, New Delhi, **2016**, Book Chapter 5, 80-97.
- 15 D. Singharoy, **S. S. Mati**, S. Rakshit, S. Chall, S. C. Bhattacharya, *J. Mol. Liq.* **2016**, 213, 33-40.
- 14 **S. S. Mati**, S. Chall, S. C. Bhattacharya, *Langmuir* **2015**, 31, 5025-5032.
- 13 S. Chall, **S. S. Mati**, B. Gorain, S. Rakshit, S. C. Bhattacharya, *Toxicological Research.* **2015**, 4, 966-975.
- 12 **S. S. Mati**, S. Chall, S. Rakshit, S. C. Bhattacharya, *J. Fluorescence* **2015**, 25, 341–353.
- 11 A. Sarkar, S. Rakshit, S. Chall, **S. S. Mati**, D. Singharoy, J. Banuelos, I. Lopez Arbeloa, S. C. Bhattacharya, *RSC Adv.* **2014**, 4, 56361–56372.
- 10 S. Chall, **S. S. Mati**, S. Konar, D. Singharoy, S. C. Bhattacharya, *Org. Biomol. Chem.* **2014**, 12, 6447–6456.
- 9 **S. S. Mati**, S. Chall, S. Konar, S. Rakshit, S. C. Bhattacharya, *Sensors and Actuators B* **2014**, 201, 204–212.
- 8 S. Chall, **S. S. Mati**, S. Rakshit, S. C. Bhattacharya, *J. Phys. Chem. C* **2013**, 117, 25146–25159
- 7 **S. S. Mati**, S. Singha Roy, S. Chall, S. Bhattacharya, S. C. Bhattacharya, *J. Phys. Chem. B* **2013**, 117, 14655–14665.
- 6 A. Pan, **S. S. Mati**, B. Naskar, S. C. Bhattacharya, S. P. Moulik, *J. Phys. Chem. B* **2013**, 117, 7578–7592.
- 5 S. Rakshit, S. Ghosh, S. Chall, **S. S. Mati**, S. P. Moulik, S. C. Bhattacharya, *RSC Adv.* **2013**, 3, 19348–19356.
- 4 **S. S. Mati**, S. Sarkar, S. Rakshit, A. Sarkara, S. C. Bhattacharya, *RSC Adv.* **2013**, 3, 8071–8082.
- 3 S. Rakshit, S. Chall, **S. S. Mati**, A. Roychowdhury, S. P. Moulik, S. C. Bhattacharya, *RSC Adv.* **2013**, 3, 6106–6116.
- 2 **S. S. Mati**, S. Sarkar, P. Sarkar, S. C. Bhattacharya, *J. Phys. Chem. A* **2012**, 116, 10371–10382.

1 S. S. Mati, T. K. Mondal, S. Dhar, S. Chall, S. C. Bhattacharya, *Spectrochimica Acta Part A* 2012, 92, 122– 130.

17. List of published abstract (year wise in descending order):

- 9 S. S. Mati, Poster Presentation , Dept. of chemistry, The Bhawanipur Education Society College, 4th November 2019
- 8 S. S. Mati, Poster Presentation , Dept. of chemistry, University of Calcutta, January 08-10, 2018.
- 7 S. S. Mati, Oral Presentation, Department of Chemistry, Haldia Govt. College, August 4-5, 2016.
- 6 S. S. Mati, Poster Presentation , Dept. of Chemistry, Jadavpur university, March 16, 2016.
- 5 S. S. Mati, Poster Presentation , BARC, Mumbai, January 5-9, 2016.
- 4 S. S. Mati, Poster Presentation , Chemistry, IIT Kharagpur, Kharagpur from February 24-25, 2014.
- 3 S. S. Mati, Poster Presentation, Dept. of chemistry, University of Calcutta, February 06-08, 2013.
- 2 S. S. Mati , Oral Presentation, CSIR-CLRI, Chennai during November 28-30, 2013.
- 1 S. S. Mati, Oral Presentation, Department of Zoology, Banaras Hindu University, Varanasi during September 3-4, 2012.

18. List of Seminar/Workshop/Conference/Symposium attended (year wise in descending order):

- 13 An International Seminar on "ITINERARY OF CLASSICAL TO MODERN ERA OF CHEMISTRY" organized by Dept. of chemistry, The Bhawanipur Education Society College, 4th November 2019
- 12 "InternationalConference on Chemistry for Human Development (ICCHD-2018)" organized by Dept. of chemistry, University of Calcutta, January 08-10, 2018.
- 11 "Recent Development in Bio-Active Molecules" organized by Department of Chemistry, Haldia Govt. College, August 4-5, 2016.
- 10 "Chemistry of Functional Materials of Current Interest" organized by Dept. of Chemistry, Jadavpur university, March 16, 2016.
- 9 "Trombay Symposium on Radiation & Photochemistry(TSRP-2016) incorporating Asia Pacific Symposium on Radiation Chemistry (APSRC-2016)" organized by BARC, Mumbai, January 5-9, 2016.
- 8 "LCMB 2014, LIGHT IN CHEMISTRY, MATERIALS & BIOLOGY" organized by Dept. of Chemistry, IIT Kharagpur, Kharagpur from February 24-25, 2014.
- 7 "Internatinal Symposium on Molecular Organisation and Complexity: A Chemical Perspective" organized by Dept. of chemistry, University of Calcutta during February 06-08, 2013.
- 6 "16th National conference on Surfactants, Emulsion and biocolloids (NATCOSEB-XVI)" organized by CSIR-CLRI, Chennai during November 28-30, 2013.
- 5 "National symposium in recent palestrae in photosciences" organized by Department of Zoology, Banaras Hindu University, Varanasi during September 3-4, 2012.
- 4 "Sustainable Development through Innovative Research in Science and Technology" organized by Dept. of Chemistry, Jadavpur university, Kolkata during September 28–29, 2012.
- 3 "Recent Advances in Chemistry" organized by organized by Dept. of Chemistry, Jadavpur university, Kolkata during February 10–11, 2012.
- 2 "Trends in surface science and related area" organized by ISSST, Jadavpur university, Kolkata during May 03, 2013.
- 1 "1st International workshop on nanomaterials (IWON): Engineering photon and phonon transport" held on Jadavpur University, Kolkata during December 14–15, 2012.