FACULTY PROFILE

1. Name of the Faculty Member: Dr. Gopa Dutta Pal

2. Designation with Category (Substantive/SACT): SACT- I

3. Department: Physics

4. Educational and Professional Qualifications:

Name of the Institution	Name of the Affiliating Body	Degree/Diploma/Certificate Obtained	Specialization (if any)
Jadavpur University	Jadavpur University	Ph.D.	Science

5. Teaching Experience (If applicable):

Name of the Institution	Position Held	From	To
Gokhale Memorial Girls' College	SACT - I	01/09/2012	Till Date 2022 (10Y 2M)

6. Research Experience (If applicable):

Name of the Institution	Nature of Work	Designation	From	To
Jadavpur University	Experimental molecular Physics	Scholar (without salary)	2012	Till date

7. Areas of Interest (Intra-disciplinary and/or Inter-disciplinary): *I want to pursue my research in Theoretical and Experimental Condensed Matter Physics. This branch of physics deals with the physical properties of different phases of matter by using well established physical laws. In particular this includes the laws of Quantum Mechanics, Electrodynamics and Statistical Mechanics. I have been motivated to extend my knowledge in different applications of Quantum Mechanics and Statistical Physics. Spectroscopy is also a field of my interest. In recent days the study of Critical Phenomenon, Ultracold atoms, Superfluidity are the important part of modern condensed matter physics.*

Interested in attending lectures, seminars, workshops. Interested in Drawing, Book reading. Indian and Western Classical Music.

8. Research Projects (if any): not applicable

9. Research Publications (if any):

a) Books/Book Chapters:

b) Journal Articles:

1. Role of gold nanocolloids on the photostability of 2-hydroxy-5-methyl benzaldehyde molecule and evidence of excited state intramolecular proton transfer process aided by DFT, non-adiabatic Ab Initio molecular dynamics simulations: Gopa Dutta (Pal), Bipan Dutta, Tapan Ganguly and Joydeep Chowdhury, J. Luminesce. 188, 378 (2017).

2. Desining of an artificial light energy converter in the form of short-chain dyad when combined with core-shell gold/silver nanocomposite: Gopa Dutta (Pal), Somnath Paul, Munmun Bardhan, Asish De and Tapan Ganuly, Spectrochimica Acta A 180, 168 (2017).

3. Designing of Bio-compatible light energy conversion nanocomposite devices by using steady-state and time-resolved spectroscopic techniques: Gopa Dutta (Pal), Somnath Paul, Munmun Bardhan, Joydep Chowdhury and Tapan Ganguly, Bull Laser and Spectrosc. Soc. India 23, 25 (2017).

4. Time Resolved Spectroscopic Investigation of Compare the Photophysical Properties of a Short-Chain Dyad when Combined with Slver and Golf Nanoparticles to form Nanocomposite System: Gopa Dutta (Pal), Priyanka Chakraborty, Somnath Yadav, Asis De, Munmun Bardhan, Pathik Kumbhakar, Subrata Biswas, Himadri Sanka DeSarkar, and Tapan Ganguly, J. Nanosci. Nanotech. 16, 7411 (2016).

5. Use of Spectroscopic Techniques to Reveal the Nature of the Interactions of Two Sialic Acid Specific Lectins with Gold Nanoparticles: S. Singha, G Dutta (Pal), P. P. Bose, S. Das, M. M. Bardhan, B. P. Chatterjee and T. Ganguly, J. Nanosci. Nanotech. 16, 515 (2016).

6. Time Resolved Spectroscopic Studies on a Novel Synthesized Photoswitchable Organic Dyad and Its Nanocomposite Form In Order to Develop Light Energy Conversion Devices: G Dutta (Pal), A. Paul, S. Yadav, M. Bardhan, A. De, J. Chowdhury, A Jana and T Ganguly, J. Nanosci. Nanotech. 15, 5775 (2015).

7. Interactions of Fluroscence dye in presence of gold nano particles of different morphology. Gopa Dutta (Pal), Somnath Paul, Munmun Bardhan Tapan Ganguly, J. Nanosci.NanoTech. 18, 2943-2950(2018).

c) Course Materials:

d) Seminar/Conference Proceedings:

10. Invited Talk/Special Lecture/Seminar/Conference Presentation:

1. Photophysical investigations on a novel synthesized dyad in its pristine and nanocomposite

forms: Gopa Dutta Pal, Aindrila Jana, Joydeep Chowdhury, Tapan Ganguly, November 2014,

ISM Dhunbad, Structural and Physical Properties of Solids (SPPS 2013).

11. Other Academic/Official Responsibilities (At College/University Level or for Any Other Body of Higher Education):

12. Awards/Recognitions/Fellowships/Memberships (if any):

12. Social Responsibility Initiatives: