Curriculum Vitae

Dr. Subhasree Banerjee

Phone: +91 7365892592

Email: *banerjeesubhasreester@gmail.com*

Google scholar profile: https://scholar.google.ca/citations?user=n_KDz00AAAAJ&hl=en
Vidwan Profile: https://vidwan.inflibnet.ac.in/profile/277881

Education

- **PhD**, Chemistry 2007-2012

Indian Institute of Technology (IIT) Bombay, Mumbai, India

Thesis title *"Preparation, Properties and Potential Applications of Silica Nanostructures"*

Thesis Supervisor: Prof. Anindya Datta.

- **MSc.** in Physical Chemistry (marks 66.8 %) 2004-2006

Presidency College, University of Calcutta, Kolkata, India

- **BSc**. in Chemistry (Hons.)(Physics and Mathematics as subsidiary) (marks 60.4%) 2001 - 2004

Bethune College, University of Calcutta, Kolkata, India

Professional Experience

- ***Assistant Professor (Stage-I):*** Department of Chemistry, Panchmura Mahavidyalaya (7th January, 2021-Till Date)
- ***Teaching Experience:*** Department of Chemistry, *Adamas University (Private)*, Barasat (November, 2017-December, 2020)
- ***Postdoctoral Fellow*:** KU Leuven, Belgium, *Employer*: Prof. Johan Hofkens(5/2016-10/2017).
- ***Postdoctoral Fellow*:** National Taiwan University, Taiwan & IAMS, Academia Sinica; *Employer*: Prof. Yit-Tsong Chen and Prof. Chien-Yuan Pan (2014-2016).
- ***Postdoctoral Fellow*:** University of Victoria, Canada; *Employer:* Prof. Cornelia Bohne (2012-2013) under the project from ***Centre for Oil and Innovation (a joint venture of Imperial Oil, Alberta Innovates and Department of Chemical Engineering, University of Alberta, Canada.***
- ***Research Associate*:** Indian Institute of Technology Bombay (2012) (*Supervisor*: Prof. Anindya Datta)

Awards

- Awarded for best poster presentation in NSD (2019) held in Adamas University, Kolkata.
- Awarded with fellowship for *Research Associateship* (2012) from Council of Scientific and Industrial Research **(CSIR)**, Govt. of India.
- Awarded for best poster presentation in **TSRP** from 4th -7th January, 2012 in Bhabha Atomic Research Center (**BARC**), India.
- Qualified for *Junior Research Fellowship (2006)* and *Senior Research Fellowship (2009)* from **CSIR**, Govt. of India.
- Qualified for Graduate Aptitude Test in Engineering (**GATE** 2006).
- National Scholarship from Government of India, Ministry of Human Resource and Development, under National Scholarship Scheme, 1998-1999 and 2000-2001.

List of Publication *(h index: 11, i-10 index: 11)*

1. Sadhu, K. K.; **Banerjee, S.**; Datta, A.; Bharadwaj, P. K. Cryptand cage: perfect skeleton for transition metal induced two-step fluorescence resonance energy transfer *Chemical Communications* **2009**, *0*, 4982-4984.

2. **Banerjee, S.**; Datta, A. Photoluminescent Silica Nanotubes and Nanodisks Prepared by the Reverse Micelle Sol− Gel Method *Langmuir* **2010**, *26*, 1172-1176.

3. Kotha, S.; Bansal, D.; Singh, K.; **Banerjee, S.** Synthesis of a new fluorescent macrocyclic α-amino acid derivative via tandem cross-enyne/ring-closing metathesis cascade catalyzed by ruthenium based catalysts *Journal of Organometallic Chemistry* **2011**, *696*, 1856 -1860.

4. **Banerjee, S.**; Honkote, S.; Datta, A. Interaction of surface trap states and defect pair of photoluminescent silica nanostructures with H_2O_2 and solvents *The Journal of Physical Chemistry C* **2011**, *115*, 1576-1581.

5. **Banerjee, S.**; Ghosh, H.; Datta, A. Lamellar micelles as templates for the preparation of silica nanodisks *The Journal of Physical Chemistry C* **2011**, *115*, 19023 -19027.

6. **Banerjee, S.**; Maity, S.; Datta, A. Enhanced trapping efficiency in acid-treated silica nanostructures *The Journal of Physical Chemistry C* **2011**, *115*, 22804 -22809.

7. **Banerjee, S.**; Dhir, A.; Banerjee, T.; Singh, A. K.; Datta, A. Silica nanodisks as platforms for fluorescence lifetime-based sensing of pH *Journal of Chemical Sciences* **2011**, *123*, 901 -907.

8. **Banerjee, S.**; Datta, A. Tuning the photoluminescence of silica nanostructures by simple chemical inputs *The XXV International Conference on Photo Chemistry, ICP 2011* **2011,** *8, 184-184*.

9. Kotha, S.; Goyal, D.; **Banerjee, S.**; Datta, A. A novel di-triazole based peptide as a highly sensitive and selective fluorescent chemosensor for Zn^{2+} ions *Analyst* **2012**, *137*, 2871-2875.

10. **Banerjee, S.**; Datta, A. Photoluminescent silica nanostructures *Science Letters Journal* **2014**, *4*, 140(1-14).

11. Layek, A.; **Banerjee, S.**; Manna, B.; Chowdhury, A. Synthesis of rare-earth doped ZnO nanorods and their defect–dopant correlated enhanced visible-orange luminescence *RSC Advances* **2016**, *6,* 35892-35900.

12. **Banerjee, S.**; Hsieh, Y.-J.; Liu, C.-R.; Yeh, N.-H.; Hung, H.-H.; Lai, Y.-S.; Chou, A.-C.; Chen, Y.-T.; Pan, C.-Y. Differential Releases of Dopamine and Neuropeptide Y from Histamine- Stimulated PC12 Cells Detected by an Aptamer-Modified Nanowire Transistor *Small* **2016**, *12*, 5524-5529.

13. Anand, A.; Chi, C.-H.; **Banerjee, S.**; Chou, M.-Y.; Tseng, F.-G.; Pan, C.-Y.; Chen, Y.-T. The Extracellular Zn^{2+} Concentration Surrounding Excited Neurons is High Enough to Bind Amyloid-β Revealed by a Nanowire Transistor *Small* **2018**, *14*, 1704439 (1-10).

14. Steele, J. A.; Puech, P.; Keshavarz, M.; Yang, R.; **Banerjee, S.**; Debroye, E.; Kim, C. W.; Yuan, H.; Heo, H.; Vanacken, J.; Walsh, A.; Hofkens, J.; J. Roeffaers, M. B. J. Giant Electron-Phonon Coupling and Deep Conduction Band Resonance in Metal Halide Double Perovskite *ACS Nano* **2018,** *12,* 8081–8090.

15. Steele, J. A.; Pan, W.; Martin, C.; Keshavarz, M.; Debroye, E.; Yuan, H.; **Banerjee, S.**; Fron, E.; Jonckheere, D.; Kim, C. W.; Baekelant, W.; Niu, G.; Tang, J.; Vanacken, J.; Auweraer, M. V.; Hofkens, J.; Roeffaers, M. B. J. Photophysical Pathways in Highly Sensitive $Cs_2AgBiBr_6$ Double-Perovskite single-Crystal X-Ray Detectors Advanced Materials **2018**, *30*, 1804450 (1-7).

16. **Banerjee, S.**; Dhir, A.; Gogoi, H.; Datta, A. Silica-based Materials in Science and Technology of the 21st Century: *Silica-based materials for bioanalytical chemistry and optoelectronics* Douhal A., Anpo, M. Eds.; Elsevier: Amsterdam, Year; 2019 2013-228.

17. Gogoi, H.; **Banerjee, S.*;** Dutta, A*. Photoluminescence of Silica Nanoparticles and Dye-Silica Conjugates (to be submitted) (An invited minireview)

Conferences

- **TSRP 2008** from 7th - 11th January, 2008 in YASHADA, Pune, India. (*Poster)*
- **Fluorescence 2009** from 16th - 19th March, 2009 in TIFR, Mumbai, India. (*Poster)*
- **RSC-IIT Bombay Symposium on Chemical Sciences 2009,** 3rd February, 2009. (*Poster)*
- **ICONSAT 2010** from 17th- 21st February, 2010 in IIT Bombay, Mumbai, India. (*Poster)*
- **TSRP-APSRC 2010** from 14th - 17th September, 2010, Lonavala, India. (*Poster)*
- **Research Scholars Meet2011**, from 25th - 26th February, 2011, Indian Chemical Society. (*Invited Talk)*
- **In-House Symposium 2011**, 26th February 2011, IIT Bombay 2011. (*Invited Talk)*
- **NMS 2011**, from 15th - 16th September, 2011, London, United Kingdom. (*Poster)*
- **TSRP 2012:** from 4th - 7th January, 2012 in BARC, India. (*Poster,* **Awarded best poster**)
- **MAF 2017:** from 10th -13th September, 2017 in Bruges, Belgium. (*Poster*)
- **NSD 2019** 28th February, 2019 in Adamas University, India (*Poster,* **Awarded best poster**)
- **1st Global Summit on Sustainable Science and Technology, 2022:** Adamas University

Webiar:

- **Department of Psychology, Adamas University 2020: Changes**, Challenges And Crisis Management In Organizations During The Pandemic Covid-19: From the Organizational Psychology Perspective.
- **Department of Mathematics, Adamas University 2020:** Porous Structures as Windmills and Aquafarm: A Mathematical Treatment.
- **KIIT Bhubaneswar 2020:** Faculty development program on Advanced Materials (Fabrication, Characterization and Applications)
- **Department of Chemistry & UGBOS in Chemistry, WBSTU, 2020:** Workshop on UG Chemistry Syllabus under CBCS curriculum
- **Department of Physical Education, Panchmura Mahavidyalaya 2021:** International Webinar on Latest innovative on sports science and menace of covid 19.
- **Career counselling cell, Panchmura Mahavidyalaya, 2021:** Career-O-Graph
- Department of Chemistry, Adamas University 2022: Non-Metallic Luminescent Quantum Dots: Do they have the Potential to Replace Metallic Quantum Dot.