



Sl. No. as per joining seniority in the Department- 4

-----  
Please Give ✓ Mark

Full time Teaching Staff	✓
Guest Lecturer	

1. Name (in BLOCK CAPITAL letter): DR. AMITKUMARGURIA
2. Educational Qualification : M.Sc., PhD.
3. Designation : Assistant Professor
4. Email id : guriaamit2@gmail.com

### Short Profile

Dr. Amit Kumar Guria obtained his B.Sc. and M.Sc. degree from the Vidyasagar University in 2010 and 2012 respectively having occupied 1<sup>st</sup> class 2<sup>nd</sup> position in B.Sc. (Chemistry Hons.) examination, and having inorganic chemistry specialization in M.Sc. (Chemistry). Dr. Guria has awarded (two times) the prestigious Syama Prasad Mukherjee fellowship (SPMF) for securing 8<sup>th</sup> and 4<sup>th</sup> rank in CSIR-NET examination in 2011(December) and 2012(June) respectively. He also qualified the SET-2017 examination of WBCSC.

Dr. Guria performed his research work on Inorganic Nanomaterials at Indian Association for the Cultivation of Science (IACS), Kolkata and conferred the Ph. D. Degree by Jadavpur University in 2016.

HOME PAGE: <https://sites.google.com/view/homepage-of-dr-amit-k-guria/>

GoogleScholar:

<https://scholar.google.com/citations?user=sWsMipoAAAAJ&hl=en>

### Activities in KWC:

Dr. Guria joined, as an Assistant Professor in Chemistry, in Krishnagar Women's College on 19.02.2021. He has set up question papers and evaluated the answer scripts of KU as well as internal (theory and practical) examinations.

He is an active member of *COVID Care Committee* that organized *COVID Pandemic Awareness Programme* on 15<sup>th</sup> July, 2021.

### Seminar/Webinar/Workshop/FDP

#### a. Attended:

1. Four-day Workshop on *EXPERIENCE THE EXPERIMENTS IN CHEMISTRY LABORATORY* conducted by Chakdaha College & KU.
2. One Day National Webinar on *NEW HORIZONS OF CHEMISTRY "NEW HORIZONS OF CHEMISTRY-2: Green and Supramolecular Chemistry* conducted by Bidhan Chandra College, Asansol.
3. National Webinar on *Environmental Hazards of Polymers and Its Remedies*, organized by Fakir Chand College, Diamond Harbour.
4. One day Interational Webinar on *Molecular Targets in Cancer Therapy*, organized by P.R.M.S. Mahavidyalaya, Bankura.
5. One Day National Webinar on *Design Your Profession with Chemical Interface*, organized by Srikrishna College, Bagula.
6. A Covid Awareness Session on *EVERYTHING you need to know about COVID-19*, organised by Krishnagar Women's College, Nadia.
7. One Day State Level Webinar on *WEST BENGAL HEALTH SCHEME FOR TEACHERS OF COLLEGE AND UNIVERSITY OF W.B.*, organized by SCBC College, Murshidabad.
8. Five Days National Level FDP on *EFFECTIVE CLASSROOM MANAGEMENT IN*

HEIs, Idhaya College for Women, Kumbakonam.

b. In Organising Committee:

1. *COVID Pandemic Awareness Programme*, organized by KWC, Nadia.

### Research Activities:

a. Projects Completed : Nil

b. Research Guidance : Nil

c. Publications (Till date) :

1. *Change in Rate of Catalytic Growths of Nanocrystals Catalyst for Formation of Asymmetric Multicomponent Heterostructures and Their Self-Assembly*. Suvodeep Sen, Suman Bera, **Amit K. Guria,\*** and Narayan Pradhan\* *J. Phys. Chem. C*, 2021, *125(3)*, 1923–1928
2. *Insights of Doping and the Photoluminescence Properties of Mn-Doped Perovskite Nanocrystals*. Samrat Das Adhikari, **Amit K. Guria,\*** and Narayan Pradhan\* *J. Phys. Chem. Lett.*, 2019, *10(9)*, 2250–2257
3. *Insights of Diffusion Doping in Formation of Dual-Layered Material and Doped Heterostructure SnS–Sn:Sb<sub>2</sub>S<sub>3</sub> for Sodium Ion Storage*. Suman Bera, Amlan Roy, **Amit K. Guria,\*** Sagar Mitra,\* and Narayan Pradhan\* *J. Phys. Chem. Lett.*, 2019, *10(5)*, 1024–1030
4. *Modulated Triple-Material Nano-Heterostructures: Where Gold Influenced the Chemical Activity of Silver in Nanocrystals*. Puspanjali Sahu, Gyanaranjan Prusty, Amit K. Guria, and Narayan Pradhan\* *Small*, 2018, *14(33)*, 1801598(1-8)
5. *Thermal-Undoping-Induced 2D Sheet Exfoliations in 1D Nanomaterial*. Suman Bera, **Amit K. Guria,\*** Saied Md Pratik, and Narayan Pradhan\* *J. Phys. Chem. C*, 2018, *122(25)*, 13731–13737
6. *Chemically Tailoring the Dopant Emission in Manganese-Doped CsPbCl<sub>3</sub> Perovskite Nanocrystals*. Samrat Das Adhikari, Sumit K. Datta, Anirban Datta, **Amit K. Guria**, and Narayan Pradhan\* *Angew. Chem., Int. Ed.*, 2017, *56(30)*, 8746–8750
7. *Doping Mn<sup>2+</sup> in Lead Halide Perovskite Nanocrystals: Successes and Challenges*. **Amit K. Guria**, Sumit K. Datta, Samrat Das Adhikari, and Narayan Pradhan\* *ACS Energy Lett.*, 2017, *2(5)*, 1014–1021 (Cover

Article)

8. *Doped or Not Doped: Ionic Impurities for Influencing the Phase and Growth of Semiconductor Nanocrystals.* Amit K. Guria, and Narayan Pradhan\* Chem. Mater., 2016, 28 (15), 5224–5237
9. *Modulated Binary-Ternary Dual Semiconductor Heterostructures.* Gyanaranjan Prusty, Amit K. Guria, Indranil Mondal, Anirban Datta, Ujjwal Pal, and Narayan Pradhan\* Angew. Chem., Int. Ed., 2016, 55(8), 2705–2708
10. *Fixed Aspect Ratio Rod-to-Rod Conversion and Localized Surface Plasmon Resonance in Semiconducting I-V-VI Nanorods.* Amit K. Guria, Gyanaranjan Prusty, Supriya Chacrabarty and Narayan Pradhan\* Adv. Mater., 2016, 28(3), 447–453
11. *Diffusion Induced Shape Evolution in Multinary Semiconductor Nanostructures.* Gyanaranjan Prusty, Amit K. Guria, Biplab K. Patra and Narayan Pradhan\* J. Phys. Chem. Lett., 2015, 6(13), 2421–2426
12. *Dopant-Controlled Selenisation in Pd Nanocrystals: The Triggered Kirkendall effect.* Amit K. Guria, Gyanaranjan Prusty, Biplab K. Patra and Narayan Pradhan\* J. Am. Chem. Soc., 2015, 137(15), 5123–5129
13. *Coincident Site Epitaxy at the Junction of Au-Cu<sub>2</sub>ZnSnS<sub>4</sub> Heteronanostructures.* Biplab K. Patra, Arnab Shit, Amit K. Guria, Suresh Sarkar, Gyanaranjan Prusty and Narayan Pradhan\* Chem. Mater., 2015, 27(3), 650–657
14. *Au-SnS Hetero Nanostructures: Size of Au Matters.* Biplab K. Patra, Amit K. Guria, Anirban Datta, Arnab Shit and Narayan Pradhan\* Chem. Mater., 2014, 26(24), 7194–7200
15. *Tuning the Growth Pattern in 2D Confinement Regime of Sm<sub>2</sub>O<sub>3</sub> and the Emerging Room Temperature Unusual Superparamagnetism.* Amit K. Guria, Koushik Dey, Suresh Sarkar, Biplab K. Patra, Saurav Giri\* and Narayan Pradhan\* Sci. Rep., 2014, 4:6514, 1–7
16. *Chemical Sealing of Nanotubes: A Case Study on Sb<sub>2</sub>S<sub>3</sub>.* Suresh Sarkar, Amit K. Guria, Biplab K. Patra and Narayan Pradhan\* Angew. Chem., Int. Ed., 2014, 53(46), 12566–12570
17. *Synthesis and photo-darkening/photo-brightening of blue emitting doped semiconductor nanocrystals.* Suresh Sarkar, Amit K. Guria, Biplab

K. Patra and Narayan Pradhan\* *Nanoscale*, 2014, 6(7), 3786–3790

18. *Efficient Superionic Conductor Catalyst for Solid in Solution–Solid–Solid Growth of Heteronanowires*. Amit K. Guria, Suresh Sarkar, Biplab K. Patra and Narayan Pradhan\* *J. Phys. Chem. Lett.*, 2014, 5(4), 732–736
19. *Monodisperse SnS Nanocrystals: In Just 5 Seconds*. Biplab K. Patra, Suresh Sarkar, Amit K. Guria, and Narayan Pradhan\* *J. Phys. Chem. Lett.*, 2013, 4(22), 3929–3934
20. *The Redox Chemistry at the Interface for Retrieving and Brightening the Emission of Doped Semiconductor Nanocrystals*. Suresh Sarkar, Biplab K. Patra, Amit K. Guria, and Narayan Pradhan\* *J. Phys. Chem. Lett.*, 2013, 4(12), 2084–2090
21. *Influence of doping on semiconductor nanocrystals mediated charge transfer and photocatalytic organic reaction*. Suresh Sarkar, Amit K. Guria and Narayan Pradhan\* *Chem. Commun.*, 2013, 49(54), 6018–6020 (Cover Article)