Application for Faculty Position

Post applied for: Assistant Professor

Subject: Chemistry

Area of specialization: Inorganic and Organic Chemistry

1. Personal Information

Name	Dr. Bivas Chandra Roy
DOB	August 19, 1991
Age	30 Years
Gender	Male
Permanent Address	Vill.- Ghanashyampur, P.O.- Jagal Gori, P.S.- Jangipara, Dist.- Hooghly, West Bengal, Pin No- 712403, India
Email	bcroy.iitk@gmail.com
Phone number	+91-7755057909
Marital Status	Single
Website link	https://www.linkedin.com/in/bivas-chandra-roy-90658512b/ https://scholar.google.com/citations?user=jN1v4CUAAAAJ&hl=en&oi=ao

2. Educational Qualifications

Degree	University/ Institution/ Board	Subjects taken	Year of Passing	Percentage of Marks	Division/ Class/CGPA
Secondary (10^{th})	Jangipara D. N. High School (W.B.B.S.E.)	Physical Science, Life Science, Mathematics, Geography, History, English and Bengali	2007	88.25%	1st
Higher Secondary (12th)	Jangipara D. N. High School (W.B.C.H.S.E.)	Chemistry, Mathematics, Physics, Biological Sciences, Environmental Education, English and Bengali	2009	89.4%	1st

Bachelor of Science (B.Sc.)	Ramakrishna Mission Vidyamandira (University of Calcutta)	Chemistry (Hons), Mathematics, Physics, English and Bengali	2012	78.375%	1st
Master of Science (M.Sc.)	IIT Bombay	Chemistry	2014	91.0%	9.1 (CPI)
Doctor of Philosophy (Ph.D.)	IIT Kanpur	Chemistry	2020	92.0%	9.2 (CPI)

3. Details of PhD

Institution: IIT Kanpur, Kanpur-208016, UP
Supervisor: **Prof. Sabuj K. Kundu**, Associate Professor, Department of Chemistry, IIT Kanpur, India.
Title of thesis: Functionalized Bipyridine Based Ruthenium Complex Catalyzed Formation of C-C and C-N Bonds using Alcohol.
Date of Ph.D. Defense: March 20, 2020

4. Qualified NET and GATE (detail, subject, year, rank etc)

Examination	Conducting Agency	Subject	Year of Passing	Score (Full Marks)	Rank
NET	CSIR-UGC	Chemical Sciences	2014	127.5 (200)	CSIR-54
GATE	IIT Kharagpur	Chemical Sciences	2014	44 (100)	AIR-203

5. Current Position (in Detail, university/organization, designation, date of joining, basic pay, pay scale, nature of work, etc)

Designation: National Post Doctoral Fellow in the Department of Chemical Sciences (Awarded by Science and Engineering Research Board, Govt. of India)
University/Organization: IISER Kolkata, Mohanpur- 741246, West Bengal
Date of Joining: March 3, 2021
Fellowship per month: 68,200/- (55,000/- + 24% HRA)
Nature of Work: Research

6. Experience: Post-Doctoral Research (in detail, university/organization, designation/position held, date of joining & date of leaving, gross pay, nature of work, etc)

University/Organization: TCG Lifesciences Pvt. Limited│CHEMBIOTEK, Block-BN, Plot-7, Sector-V, Salt Lake Electronics Complex, Kolkata-700091, West Bengal
Designation: Research Scientist
Date of Joining: August 3, 2020
Date of leaving: March 2, 2021
Gross Pay per month: 42,617/-
Nature of work: Research

University/Organization: IIT Kanpur, Kanpur-208016, UP
Designation: Sr. Research Fellow
Date of Joining: April 1, 2020
Date of leaving: September 30, 2020
Gross Pay per month: 35,000/-
Nature of work: Research

7. **No. of Journal Publications**: Nine (9) (https://scholar.google.com/citations?user=jN1v4CUAAAAJ&hl=en&oi=ao)
8. **No. of Books/Book-Chapters Published**: NA
9. **No. of Patent**: NA

10. Area of Research Interest

- Organometallic Chemistry and Catalysis
- Photocatalysis and Electrocatalysis
- Organic Synthesis
- Transition metal-free catalysis

11. Academic Distinctions (Award/Scholarship/Rank, etc.)

- Selected for **National Post-Doctoral Fellowship** (N-PDF) by Science and Engineering Research Board (**SERB**), India, 2020.
- Recipient of Best Poster Award in Research Scholars' Day-2018 by the Department of Chemistry, IIT Kanpur.
- Awarded **Junior Research Fellowship** (Secured All India Rank **CSIR-54** in **CSIR-NET** by Council of Scientific and Industrial Research (CSIR), India, 2014.
- Secured **All India Rank 203** (Chemistry) in **GATE 2014**.
- Recipient of **INSPIRE** Scholarship for B.Sc. and M.Sc. by Department of Science and Technology for being among the top 1% of both Secondary and Higher Secondary Board Examination.
- Secured **All India Rank 65** (Chemistry) in **JAM 2012** (Joint Admission Test for M.Sc. in IIT).
- Awarded '**Central Sector Scheme of Scholarship, 2009**' by Ministry of Human Resource Development for being among **top 1%** in Higher Secondary Board Examination.

12. References

Name: **Prof. Sabuj K. Kundu**
Designation: Associate Professor, Department of Chemistry, IIT Kanpur
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Name: **Prof. Debabrata Maiti**
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Annexure

1. Complete list of publications

a) Journal

1. "Alkyl Phosphine Free, Metal-Ligand Cooperative Complex Catalyzed Alcohol Dehydrogenative Coupling Reactions"; **B. C. Roy**, K. Ganguli, S. A. Samim, S. Kundu, *Asian J. Org. Chem.* **2021**, *10*, 1218.
2. "Cobalt Catalyzed Tandem Transformation of 2-Aminobenzonitriles to Quinazolinones using Hydration and Dehydrogenative Coupling Strategy"; S. A. Samim‡, **B. C. Roy**‡, S. Nayak, S. Kundu, *J. Org. Chem.* **2020**, *85*, 11359 (‡ contributed equally to this work).
3. "Tandem Synthesis of Quinazolinone Scaffolds from 2-Aminobenzonitriles using Aliphatic Alcohol-Water System"; **B. C. Roy**, S. A. Samim, D. Panja, S. Kundu, *Catal. Sci. Technol.* **2019**, *9*, 6002.
4. "Base-Promoted α-Alkylation of Arylacetonitriles with Alcohols"; **B. C. Roy**‡, I. A. Ansari‡, S. A. Samim, S. Kundu, *Chem. Asian J.* **2019**, *14*, 2215 (‡ contributed equally to this work).
5. "ortho-Amino Group Functionalized 2,2′-Bipyridine Based Ru(II) Complex Catalysed Alkylation of Secondary Alcohols, Nitriles and Amines using Alcohols"; **B. C. Roy**, S. Debnath, K. Chakrabarti, B. Paul, M. Maji, S. Kundu, *Org. Chem. Front.* **2018**, *5*, 1008 ("This article is part of the themed collection: Organic Chemistry Frontiers HOT articles for 2018").
6. "Bifunctional Ru(II)-Complex-Catalysed Tandem C−C Bond Formation: Efficient and Atom Economical Strategy for the Utilisation of Alcohols as Alkylating Agents"; **B. C. Roy**, K. Chakrabarti, S. Shee, S. Paul, S. Kundu, *Chem. Eur. J.* **2016**, *22*, 18147.
7. "Ruthenium(II)-NNN-Pincer-Complex-Catalyzed Reactions Between Various Alcohols and Amines for Sustainable C-N and C-C Bond Formation"; M. Maji, K. Chakrabarti, B. Paul, **B. C. Roy**, S. Kundu, *Adv. Synth. Catal.* **2017**, *360*, 722 (Selected as a Very Important Publication).
8. "Tandem Cross Coupling Reaction of Alcohols for Sustainable Synthesis of β-Alkylated Secondary Alcohols and Flavan Derivatives"; S. Shee, B. Paul, D. Panja, **B. C. Roy**, K. Chakrabarti, K. Ganguli, A. Das, G. K. Das, S. Kundu, *Adv. Synth. Catal.* **2017**, *359*, 3888.
9. "Bifunctional Ru(II) Complex Catalysed Carbon-Carbon Bond Formation: An Eco-friendly Hydrogen Borrowing Strategy"; K. Chakrabarti, B. Paul, M. Maji, **B. C. Roy**, S. Shee, S. Kundu, Org. Biomol. Chem. **2016**, *14*, 10988.

b) Book/book-chapter: NA

c) Patent: NA