

**Acharya Jagadish Chandra Bose College**  
**1/1B, A. J. C. Bose Road**  
**Kolkata 700 020**

**Department of Chemistry**



**Dr. Rammohan Pal, M.Sc., Ph.D.**

Assistant Professor of Organic Chemistry

**Education**

- \***B.Sc.** 1999: University of Calcutta
- \***M.Sc.** 2001: University of Calcutta
- \***Ph.D.** 2011: with Professor Asok Kumar Mallik, Department of Chemistry, Jadavpur University, Kolkata 700 032, India
- \***Doctoral work** (January 2004 – December 2010): Department of Chemistry, Jadavpur University, Kolkata 700 032, India

**Doctoral Thesis:** "SYNTHESIS AND REACTIONS OF SOME NITROGEN HETEROCYCLES"

**Professional**

- \* Assistant Professor (August 2003 – Present): Department of Chemistry, Acharya Jagadish Chandra Bose College, Kolkata 700 020, India

**Fellowship/Award**

- \*UGC NET-JRF-2002 (September 2002 – July 2003): Indian Institute of Chemical Technology (IIT), Hyderabad, India
- \*DBT Project-JRF (December 2001 – June 2002): Indian Association for the Cultivation of Sciences (IACS), Kolkata 700 032, India
- \*GATE-2001
- \*SLET-2001

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**Current Research Interests:**

- \*Development of New Synthetic Methodology
- \*Application of Green Chemistry
- \*Heterocyclic Chemistry
- \*Total Synthesis of Natural Products

**Position Available:**

Ph.D. Position is Available \* UGC NET-JRF Awardee with a background in Organic Chemistry are welcome to apply via e-mail to [pal\\_rammohan@yahoo.com](mailto:pal_rammohan@yahoo.com)

**Research Project:**

UGC-Minor Research Project (Completed: March 15, 2012 – March 14, 2014); Project No. **PSW-130/11-12 (ERO) dt. 25.01.12**

**Project Title:** "Synthesis of Biologically Active Enones and Bis-, Tris- and Tetra-(indolyl)methanes Using Green Protocol"

## Research Publications:

**\*Published Papers: 35**  
**[\*As Corresponding Author.....14]**

### **Session-wise publications** (2003-2016)

#### **Academic session wise publications (session: July to June)**

Session	National Journals	International Journals	Session	National Journals	International Journals
2015-2016	1	1	2008-2009	1	0
2014-2015	0	2	2007-2008	1	0
2013-2014	2	7	2006-2007	0	0
2012-2013	3	7	2005-2006	0	0
2011-2012	0	1	2004-2005	2	0
2010-2011	3	1	2003-2004	0	1
2009-2010	1	0	2002-2003	0	1

#### **Top Five Journals**

Sl. No.	Name of the Journal	Year of Publication	Volume	Pages	Impact Factor
1.	Adv. Synth. Catal	2003	345	557-559	5.54
2.	Tetrahedron Lett.	2003	44	5465-5468	2.39
3.	Synlett	2012	23	2459-2462	2.55
4.	Inorganica Chimica Acta	2014	409B	202-207	2.04
5.	Org. Prep. Proced. Int.	2011	43	67-474	1.19
				<b>Total</b>	<b>13.71</b>

**National Journals: 14 International Journal: 21**

#### **Year-wise Publications**

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**2016 (1)**

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1. Starfruit juice: An efficient green solvent cum catalyst system for facile synthesis of bis-, tris-, and tetra(indole) derivatives, **Rammohan Pal\***, Anupam kr. Singh, Tapas Sarkar, *Int. J. Green Chem. Bioproc.*, **2016**, 6(1), 1-6. [January: ISSN No. 2277-7199]
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### 2015 (1)

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1. Exploring the utility of aqueous unripe mango juices as green medium for electrophilic substitution reaction of indoles and aldehydes, **Rammohan Pal\***, Anupam Kr. Singh, Taradas Sarkar, *J. inst. Chemists (India)*, **2015**, 87(3), 75-86. [December: ISSN No. 0020-3254]

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### 2014 (6)

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1. Two efficient and green methods for synthesis of 4,4'-(arylmethylene)bis(1H-pyrazol-5-ols) without use of any catalyst or solvent” Arpita Das Gupta, **Rammohan Pal**, Asok K. Mallik\*, *Green Chemistry Letters and Reviews*, **2014**, 7(4), 411-418. [October; ISSN No. 1751-7192]
2. Induced microwave-induced synthesis of indolyl chalcones, **Rammohan Pal\***, Taradas Sarkar, Tapas Sarkar, *Archives of Applied Science Research*, **2014**, 6(3), 138-141. [July; ISSN No. 0975-508X]
3. Tamarind Fruit Juice as a Natural Catalyst: An Excellent Catalyst for Efficient and Green Synthesis of Bis-, Tris-, and Tetraindolyl Compounds in Water, **Rammohan Pal\***, *Indian Journal of Chemistry, Sect. B*, **2014**, 53(6), 763-768. [June; ISSN No. 0975-0983]
4. Visible Light Induced Knoevenagel Condensation Catalyzed by Starfruit Juice of Averrhoa Carambola, **Rammohan Pal\***, Taradas Sarkar, *International Journal of Organic Chemistry*, **2014** 4(2), 106-115. [June; ISSN No. 2161-4695]
5. Visible light induced Knoevenagel condensation: A clean and efficient protocol using aqueous fruit extract of *Tamarindus indica* as catalyst, **Rammohan Pal\***, *International Journal of Advanced Chemistry*, **2014**, 2(1), 27-33. [February; ISSN No. 2310-2977]
6. Single end to end Azido Bridged Adduct of a Tridentate Schiff Base Copper (II) Complex: Synthesis, Structure, Magnetism and Catalytic Studies, Sourajit Banerjee, Chandan Adhikary\*, Corrado Rizzoli, **Rammohan Pal**, *Inorganica Chimica Acta*, **2014**, 409B, 202-207. [January; ISSN No. 0020-1693]

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### 2013 (10)

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1. Expedient and Green “One-pot” Method for Synthesis of b-Aryl-b-marcaptoketones Over Anhydrous Potassium Carbonate or Amberlyst-15 Catalyst, Asok K. Mallik\*, Chayan Guha, Rina Mondal, **Rammohan Pal**, *Journal of Chemical Sciences*, **2013**, 125 (6), 1463-1470. [November; ISSN No. 0973-7103]
2. An Efficient and Green Method for Synthesis of 2,4,5-Triarylimidazoles Without Use of Any Solvent, Catalyst and Solid Surface, Swati Samanta, Saheli Sarkar, **Rammohan Pal** and Asok K. Mallik\*, *Organic Chemistry International*, **2013**, 2013 (Article ID: 512074), 5 pages. [November; ISSN No. 2090-200X]
3. Fruit Juice: A Natural, Green and Biocatalyst System in Organic Synthesis, **Rammohan Pal\***, *Open Journal of Organic Chemistry*, **2013**, 1(4), 47-56. [October; ISSN No. 2328-5028]

- 4 Schmidt Reactions of *E*-3-Benzylidenechromanones and *E*-3-Benzylidenethiochromanones, Tapas K. Mandal, **Rammohan Pal**, Rina Mondal, Sankar P. Dey, Asok Kumar Mallik\*, *Journal of Chemistry*, **2013**, 2013 (Article ID: 392128), 5 pages. [August; ISSN No. 2090-9071]
- 5 A convenient, rapid and eco-friendly synthesis of bis-, tris(indolyl)methanes and synthesis of tetraindolyl compounds catalyzed by tamarind juice under microwave irradiation, **Rammohan Pal\***, *International Journal of Chemtech Applications*, **2013**, 2(3), 26-40. [August; ISSN No. 2319-7099]
- 6 New Greener Alternative for Biocondensation of Aldehydes and Indoles Using Lemon Juice: Formation of Bis, Tris-, and Tetraindoles, **Rammohan Pal\***, *International Journal of Organic Chemistry*, **2013**, 3(2), 136-142. [June; ISSN No. 2161-4695]
- 7 Recent Progress of Ammonium Chloride as catalyst in organic synthesis, **Rammohan Pal\***, *IOSR Journal of Applied Chemistry*, **2013**, 4(2), 86-99. [April; ISSN No. 2278-5736]
- 8 First Application of Fruit Juice of *Citrus Limon* for Facile and Green Synthesis of Bis- and Tris(indolyl)methanes in Water, **Rammohan Pal\***, Shampa Khannobis, Taradas Sarkar, *Chemistry Journal*, **2013**, 3(1), 7-12. [January; ISSN No. 2049-954X]
- 9 Ammonium chloride catalyzed microwave-assisted Claisen-Schmidt reaction between ketones and aldehydes under solvent-free conditions, **Rammohan Pal\***, *IOSR Journal of Applied Chemistry*, **2013**, 3(4), 74-80. [February; ISSN No. 2278-5736]
- 10 Microwave-assisted eco-friendly synthesis of bis-, tris(indolyl)methanes and synthesis of di(bis-indolyl)methanes catalyzed by fruit juice of *Citrus limon* under solvent-free conditions, **Rammohan Pal\***, *IOSR Journal of Applied Chemistry*, **2013**, 3(4), 1-8. [February; ISSN No. 2278-5736]

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#### 2012 (5)

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1. Amberlyst-15 in organic synthesis, **Rammohan Pal\***, Taradas Sarkar, Shampa Khasnobis, *Arkivoc*, **2012**, i, 570-609. [July; ISSN No. 1551-7012]
- 2 Facile Iodine-catalyzed Michael Addition of Indoles to  $\alpha,\alpha'$ -Bis(arylmethylene)cyclopentanones: An Efficient Synthesis of *E*-2-(3-Indolylphenylmethyl)-5-phenylmethylenecyclopentanones, **Rammohan Pal**, Arpita Das Gupta, and Asok K. Mallik\*, *ISRN Org. Chem.*, **2012**, 2012, 1-6. [November; ISSN No. 2090-5149]
3. A convenient, eco-friendly and efficient method for synthesis of bis(3-indolyl)methanes “on-water”, Asok K. Mallik,\* **Rammohan Pal**, Chayan Guha, Haimanti Mallik, *Green Chem. Lett. Rev.*, **2012**, 5(3), 321-327. [September; ISSN No. 1751-7192]
- 4 An Expedient Synthesis of *cis*-2-(arylmethyl)-4-phenylthiochromans by Iodine Catalyzed Combination of Thiophenol with Cinnamylideneacetophenones, Asok K. Mallik,\* Tapas K. Mandal, **Rammohan. Pal**, Debojyoti Ghosal and Amerendra Patra, *Synlett*, **2012**, 23(17), 2459-2462. [October; ISSN No. 1437-2096]
- 5 An efficient and highly diastereoselective synthesis of *cis*-2,4-diarylthiochromans, Chayan Guha, **Rammohan Pal**, Asok K. Mallik,\* *Arkivoc*, **2012**, ix, 85-94. [September; ISSN No. 1551-7012]

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#### Pre-Doctoral Publications

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### 2011 (5)

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1. NBS Oxidation of *E*-3-Benzylidenechromanones to 3-( $\alpha$ -Hydroxybenzyl)chromones and 3-Benzoylchromones, Tapas K. Mandal, **Rammohan Pal**, Rina Mondal Sankar P. Dey and Asok K. Mallik,\* *Org. Prep. Proc. Int.*, **2011**, *43(5)*, 467-474. [October; ISSN No. 1945-5453]
2. Iodine-catalysed conjugate addition of indole with  $\alpha$ -cinnamylideneketones: Formation of  $\beta$ -(3-indolyl)- $\alpha,\beta$ -dihydro- $\alpha$ -cinnamylideneketones and bis(3-indolyl)methylbenzene, **Rammohan Pal**, Tapas. K. Mandal and Asok. K. Mallik,\* *Indian J. Chem. Sect. B*, **2011**, *50(4)*, 619-623. [April; ISSN No. 0975-0983]
3. Facile condensation of aromatic aldehydes with chroman-4-ones and 1-thiochroman-4-ones catalysed by amberlyst-15 under microwave irradiation condition; Tapas K. Mandal, **Rammohan Pal**, Rina Mondal and Asok K. Mallik,\* *E-J. Chem.*, **2011**, *8(2)*, 863-869. [April; ISSN No. 0973-4945]
4. Amberlyst-15 catalysed microwave assisted cross-aldol condensation between ketones and aldehydes under solvent free condition; **Rammohan Pal**, Tapas K. Mandal, Chayan Guha and Asok. K. Mallik,\* *J. Indian Chem. Soc.*, **2011**, *88(5)*, 711-717. [May; ISSN No. 0019-4522]
5. *trans*-2-Phenyl-4-thiophenoxy-3,4-dihydro-2*H*-1-benzothiopyran, Asok. K. Mallik,\* Tapas. K. Mandal, **Rammohan Pal** and Amerendra. Patra, *Molbank*, **2011**, *1*, M719. [February; ISSN No. 1422-8599]

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### 2010 (1)

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1. An efficient synthesis of *E*-2-amino-4-aryl-8-(arylmethylene)-5,6,7,8-tetrahydrobenzo[*d*]pyrimidines and their lower analogues, **Rammohan Pal**, Tapas K Mandal, Swati Samanta and Asok K Mallik,\* *J. Indian Chem. Soc.*, **2010**, *87(6)*, 711-715. [June; ISSN No. 0019-4522]

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### 2009 (1)

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- 1 Base-catalysed cyclocondensation of  $\alpha,\alpha'$ -bis(arylmethylene)cyclohexanones with thiourea: Formation of *E*-8-(arylmethylene)-4-aryl-1,2,3,4,5,6,7,8-octahydrobenzo[*d*]pyrimidine-2-thiones, **Rammohan Pal**, Tapas K Mandal, Asok K Mallik,\* *J. Indian Chem. Soc.*, **2009**, *86(4)*, 402-405. [April; ISSN No. 0019-4522]

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### 2007 (1)

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- 1 Facile formation of bis(3-indolyl)methylarenes by iodine-catalysed reaction of indole with  $\alpha,\alpha'$ -bis(arylmethylene)- ketones and  $\alpha$ -substituted arylmethyleneketones in dry ethanol, Asok K Mallik,\* **Rammohan Pal** & Tapas K Mandal, *Indian J. Chem. Sect. B*, **2007**, *46(12)*, 2056-2059. [December; ISSN No. 0975-0983]

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### 2005 (2)

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- 1 A convenient, rapid and eco-friendly synthesis of bis-indolylmethylarenes under microwave irradiation, Biswanath Das,\* **Rammohan Pal**, Joydeep Banerjee, Chimmani Ramesh, Gurram

Mahender & Venkateswarlu, *Indian J. Chem. Sect. B*, **2005**, 44(2), 327-330. [February; ISSN No. 0975-0983]

- 2 Amberlyst-15 catalysed acetylation of heteroaromatics with acetic anhydride under solvent free condition, Biswanath Das,\* **Rammohan Pal**, Joydeep Banerjee, Chimmani Ramesh, G Mahender, Harish Hola & Venkateswarlu, *Indian J. Chem. Sect. B*, **2005**, 44(1), 198-200. [January; ISSN No. 0975-0983]

**2003 (2)**

- 1 Efficient, selective deprotection of aromatic acetates catalysed by Amberlyst-15 or iodine, Biswanath Das,\* Joydeep Banerjee, R. Ramu, **Rammohan Pal**, N. Ravindranath & C Ramesh, *Tetrahedron Letters.*, **2003**, 44(29), 5465-5468. [July; ISSN No. 0040-4039]
- 2 Silica supported Sodium Hydrogen Sulfate and Amberlyst-15: Two Efficient Heterogeneous Catalyst for Facile Synthesis of Bis- and Tris(1H-indol-3-yl)methanes from Indoles and Carbonyl Compounds, Chimmani Ramesh, Joydeep Banerjee, **Rammohan Pal**, Biswanath Das,\* *Adv. Synth. Catal.*, **2003**, 345(5), 557-559. [May; ISSN No. 1615-4169]

► **Presentation of Papers**

- **International Seminar .....02 (Two)**

Sl. No.	Title & Authors	Venue & Date	Proceedings	Presented by
1.	Iodine-catalysed conjugate addition of indole with $\alpha$ -cinnamylidene ketones: Formation of $\beta$ -(3-indole)- $\alpha,\beta$ -di-hydro- $\alpha$ -cinnamylidene ketones and bis(3-indolyl)methylbenzene.  <b>Rammohan Pal</b> , Tapas K. Mandal and Asok K. Mallik*	VIT University, Tamil Nadu, India, December 02-06, <b>2009</b>	<b>46<sup>th</sup></b> Annual Convention of Chemists and <b>International Conference Abstracts – 2009</b> , ORG (AP)-11, C 3	<b>Self</b>
2.	An expeditious synthesis of 4-(aroylmethyl)thiochromans by iodine-catalyzed combination of thiophenol with cinnamylideneacetophenones.  Asok K. Mallik,* Tapas K. Mandal, <b>Rammohan Pal</b> and Amarendra Patra	VIT University, Tamil Nadu, India, December 02-06, <b>2009</b>	<b>46<sup>th</sup></b> Annual Convention of Chemists and <b>International Conference Abstracts – 2009</b> , ORG (OP)-13, C 15	<b>Co-author</b>

• National level .....09 (Nine)

Sl. No.	Title & Authors	Venue & Date	Proceedings	Presented by
1.	Fruit Juice: A Natural, Green and Biocatalyst System for Synthesis of Different Metal Nanoparticles <b><u>Rammohan Pal</u></b> *	St. Paul's Cathedral Mission College  February 4 & 5, <b>2016</b>	UGC-Sponsored National Conference on Recent Trends in Functional Material in relation to Nanomaterials and Nanotechnology (RTFMNN)	<b>Self</b>
2.	A simple and efficient mechanochemical route for the synthesis of 2-aryl and 1,2-diarylbenzimidazoles using aqueous extract of unripe mango juice <b><u>Rammohan Pal</u></b> *	Department of Chemistry, JECRC University, Ramchandrapura, Sitapura Industrial Area, Jaipur-303 905, Rajasthan	<b>52<sup>nd</sup></b> Annual Convention of Chemists Abstracts – <b>2015</b> , ORG (OP)-40, (Organic and Biochemistry Section)	<b>Self</b>
3.	Starfruit juice catalyzed green and efficient synthesis of bis(indolyl)aryl aldehydes and tetra-indolyl compounds in water <b><u>Rammohan Pal</u></b> *	Meghnad Saha Auditorium, University of Calcutta, Kolkata-9, July 31 & August 1, 2015	National Symposium on Recent Advances in Chemistry & Industry ( <b>2015</b> )	<b>Self</b>
4.	First application of Starfruit juice of <i>Averrhoa carambola</i> for Knoevenagel condensation reaction induced by tungsten bulb light <b><u>Rammohan Pal</u></b> * <sup>†</sup> and Taradas Sarkar	Department of Chemistry, Kurukshetra University, Kurukshetra-1360119, Haryana, December 09-12, 2014.	<b>51<sup>st</sup></b> Annual Convention of Chemists Abstracts – <b>2014</b> , ORG (OP)-10, C 09 (Organic and Biochemistry Section)	<b>Self</b>
5.	Tamarind fruit juice as a natural catalyst: An excellent catalyst for efficient and green synthesis of bis-, tris-, and tetra-indolyl compounds in water <b><u>Rammohan Pal</u></b> * <sup>†</sup> and Taradas Sarkar	Department of Chemistry & Centre for Advanced Studies in Chemistry, Panjab University, Chandigarh-160 014, India. December 04-07, <b>2013</b> .	<b>50<sup>th</sup></b> Annual Convention of Chemists Abstracts – <b>2013</b> , ORG (PP)-25, C 11 (Organic and Biochemistry Section)	<b>Self</b>
6.	An efficient, green methodology for facile synthesis of bis- and tris(3-indolyl)methanes using fruit juice of	Department of Applied Sciences, NITTTR, Bhopal,	<b>49<sup>th</sup></b> Annual Convention of Chemists Abstracts – <b>2012</b> ,	<b>Self</b>

	<i>Citrus limon</i> in water <b>Rammohan Pal*</b> , Shampa Khasnobis and Taradas Sarkar	Madhya Pradesh, India December 12-15, <b>2012</b>	ORG (PP)-16, C 11 (Organic and Biochemistry Section)	
7.	Iodine catalyzed Michael addition of indoles with $\alpha,\alpha'$ -bis(arylmethylene)cyclopentanones: Facile formation of E-2- (3-indolylarylmethyl)-5-aryl-methylenecyclopentanones,  Asok K. Mallik,* <b>Rammohan Pal</b> , Arpita Das Gupta	Allahabad University, Uttar Pradesh, India, December 03-07, <b>2011</b>	<b>48<sup>th</sup></b> Annual Convention of Chemists Abstracts – <b>2011</b> , ORG (PP)-04, C 32	<b>Self</b>
8	Facile formation of Bis(3-indolyl)-methylareanes from diarylidene- ketones and $\alpha$ -substituted arylidene ketones  Asok K. Mallik* <b>Rammohan Pal</b> , Tapas K. Mandal and	Jadavpur University, West Bengal, India, February 22 and 23, <b>2006</b>	National Symposium on Organic Chemistry-III (NSOC-III): Recent Trends and Perspectives Abstracts – <b>2006</b> , P-8F, page 55	<b>Self</b>
9.	An efficient and highly stereoselective synthesis of cis-2,4-diarylthiochromans Chayan Guha, <b>Rammohan Pal</b> , and Asok K. Mallik*	Indian Chemical Society August 02 & 03, <b>2011</b>	Proceedings of the A. P. C. Ray Memorial Symposium on Chemistry Today-2011, Contributory paper (Award)-16, page 54	<b>Co-author</b>

► **Participation in Conference, Seminars and Symposia**

Sl. No.	Name of the Programme	Topic	Venue	Organized By	Level & date
1	Conference	Recent Trends in Functional Material in Relation to Nanomaterials and Nanotechnology (RTFMNN)	Auditorium, St. Paul's College, Kolkata	Department of Chemistry, St. Paul's College, Kolkata	<b>National</b> January 4-5, <b>2016</b>
2	Conference	Annual Convention of Chemists, 2015	Department of Chemistry, JECRC University, Jaipur, Rajasthan	Indian Chemical Society, Kolkata	<b>National</b> December 28-30, <b>2015</b>
3	Symposium	Recent Advances in Chemistry & Industry	Meghnad Saha Auditorium, C.U.	Indian Chemical Society, Kolkata	<b>National</b> July 31 & August, 01, <b>2015</b>



4	Seminar	Environmental Pollution: Causes, Impacts & Control	Department of Chemistry, BES College	The Bhawanipur Education Society college, Kolkata	<b>State</b> April 25, <b>2015</b>
5	Seminar	Trends in Contemporary Indian historical Studies: crises & Transition	Tarun Sengupta Smriti Bhavan, Birati, North 24 Parganas	Mahadevananda Mahavidyalaya	<b>National</b> December 20, <b>2014</b>
6	Conference	Annual Convention of Chemists, 2014	Department of Chemistry, Kurukshetra University, Haryana, India.	Indian Chemical Society, Kolkata	<b>National</b> December 09-012, <b>2014</b> .
7	Symposium	Recent Advances in Chemistry & Industry	Meghnad Saha Auditorium, C.U.	Indian Chemical Society, Kolkata	<b>National</b> August, 01-02, <b>2014</b>
8	Seminar	Mushroom Cultivation	Acharya Jagadish Chandra Bose College, Kolkata	Department of Botany, A. J. C. Bose College Kolkata	<b>College</b> March 14, <b>2014</b>
9	Conference	Annual Convention of Chemists, 2013	Department of Chemistry & Centre for Advanced Studies in Chemistry, Panjab University, Chandigarh, India.	Indian Chemical Society, Kolkata	<b>National</b> December 04-07, <b>2013</b> .
10	Conference	Annual Convention of Chemists, 2012	Department of Applied Sciences, NITTTR, Bhopal., MP, India	Indian Chemical Society, Kolkata	<b>National</b> December 12-15, <b>2012</b>
11	Conference	Annual Convention of Chemists and Celebration of the International year of Chemistry, 2011	Dept. of Chemistry, University of Allahabad, Uttar Pradesh, India	Indian Chemical Society, Kolkata	<b>National</b> December 03-07, <b>2011</b>
12	UGC-Sponsored Seminar	Chemistry in our lives	Dept. of Chemistry, RKM Vidyamindira	Ramakrishna Mission Vidyamandira, Belur	<b>National</b> 25 <sup>th</sup> March, <b>2011</b>
13	Symposium (NSOC-IV)	Moderns Trends and Prospects	Dept. of Chemistry, Jadavpur University	Dept. of Chemistry, JU	<b>National</b> February 2-3, <b>2011</b>
14	UGC-Sponsored Seminar	Recent Reforms in Education in India: Trends and Challenges	Rabindra Bhavan, Cooch Behar	WBCUTA	<b>National</b> October 1-2, <b>2010</b>
15	UGC-Sponsored Seminar	Frontier Areas of Chemistry- A Modern Perspective	Dept. of Chemistry, RKM Vidyamindira	Ramakrishna Mission Vidyamandira, Belur	<b>National</b> February 25-26, <b>2010</b>
16	Conference	Recent Research Trends in Chemical Sciences	Dept. of Chemistry VIT, Vellore, Tamil Nadu	Indian Chemical Society, Kolkata	<b>International</b> December 02-06, <b>2009</b>

17	Conference	Life & works of Sir J C Bose, In the Perspective of Modern Science & Technology	Department of Chemistry, Jadavpur University	Department of Chemistry, JU	<b>National</b> March 20-21, <b>2009</b>
18	Seminar	On Consumer Protection	A. J. C. Bose College, Kol-20	A. J. C. Bose College, Kol-20	<b>College</b> December 11, <b>2008</b>
19	UGC-Sponsored Seminar	Higher Education and Employability	Malda College	WBCUTA	<b>State</b> November 15-16, <b>2008</b>
20	Symposium	Advanced in Chemistry	Department of Chemistry, Jadavpur University	Department of Chemistry, JU	<b>National</b> November 5, <b>2008</b>
21	Symposium	A P C Ray Memorial Symposium on Chemistry Today	Meghnad Saha Auditorium, C.U.	Indian Chemical Society, Kol-9	<b>National</b> August 01-02, <b>2008</b>
22	Seminar	Chemistry of Element and its Role in Life Process	Ramakrishna Mission Vidyamandir, Belur Math	Ramakrishna Mission Vidyamandira, Belur	<b>National</b> March 14, <b>2008</b>
23	Seminar	A Seminar on Acharya Jagadish Chandra Bose	A. J. C. Bose College, Kol-20	A. J. C. Bose College, Kol-20	<b>College</b> Nov. 30, <b>2007</b>
24	Symposium	Current Perspective in Organic Chemistry	Department of Organic Chemistry, IACS, Kol-32	Indian Association for the Cultivation of Sciences, Kolkata-32	<b>International</b> Dec. 7-9, <b>2006</b>
25	Seminar	A P C Ray and Chemistry Today	Meghnad Saha Auditorium, University of Calcutta, Kol-9	Indian Chemical Society, Kol-9	<b>National</b> Sept. 15, <b>2006</b>
26	Symposium	Recent Trends and Perspective (NSOC-III)	K.P. Basu Memorial Hall, <i>Jadavpur University</i>	Dept. of Chemistry, Jadavpur University	<b>National</b> Feb. 22-23, <b>2006</b>
27	Seminar	Green Chemistry & Environment	Dept. of Chemistry, Asutosh College	Dept. of Chemistry, Asutosh College	<b>National</b> Dec. 19-20, <b>2005</b>
28	Symposium	NASOC-XIX, on Organic Chemistry	Meghnad Saha Auditorium, University of Calcutta, Kol-9	Dept. of Chemistry, University of Calcutta	<b>National</b> March 29, <b>2005</b>
29	Conference	Different Academic Problems of Higher Education and Allied Matters	Vijaygarh Jyotish Ray College, Kol-32	WBCUTA	<b>State</b> March 5, <b>2005</b>
30	Seminar	Challenges to Education	Shibpur	Shibpur	<b>National</b>

		in the Present Scenario	Dinobundhoo Institution, Howrah	Dinobundhoo Institution, Howrah	Oct. 9-10, <b>2004</b>
31	Symposium	NASOC-XVIII, on Organic Chemistry	Meghnad Saha Auditorium, University of Calcutta, Kol-9	Dept. of Chemistry, University of Calcutta	<b>National</b> March 26, <b>2004</b>
32	Seminar	Scarcity of Potable Water	Dept. of Chemistry, City College, Kol-09	Dept. of Chemistry, City College, Kol-09	<b>National</b> March 13, <b>2004</b>
33	Symposium	Currents Trends and Prospects (NSOC-II)	K.P. Basu Memorial Hall, <i>Jadavpur University</i>	Dept. of Chemistry, Jadavpur University	<b>National</b> Dec. 17, <b>2003</b>

► **Book Publication: Nil**

► **NET/ GATE/ SET (SLET)**

Examination	Organizing Authority	Rank	Subject	Year
Gratuate Aptitude Test Examination ( <b>GATE</b> )	I. I. T	93.98 (percentile) AIR-118	Chemistry	<b>2001</b>
National Eligibility Test ( <b>NET</b> )	CSIR-UGC	UGC (within top 20%)	Chemical Sciences	<b>2001</b>
State Level Eligibility Test ( <b>SLET</b> )	WBCSC	19	Chemical Sciences	<b>2002</b>

• **Teaching Experiences**

**UG:**

Designation	Employer	Period of Service From To		Scale of pay
Guest Lecturer	Basirhat College	September 2001 to December 2001		-----
Lecturer	A J C Bose College	01.08.2003	31.12.2005	8000-275-13500
Asst. Prof	A J C Bose College	01.01.2006	31.07.2009	15600-39100

(Stage 1)				(AGP 6000)
Asst. Prof. (Stage 2)	A J C Bose College	01.08.2009	At Present	15600-39100 (AGP 7000)

► **FIP : Nil**

► **Research Project:**

**Minor Research Project No. PSW-130/11-12 (ERO) dt. 25.01.12 Completed:**

*(Sponsored by UGC, New Delhi, India)*

**(15<sup>th</sup> March, 2012-14<sup>th</sup> March, 2014)**

*Title: “Synthesis of Biologically Active Enones and Bis-, Tris- and Tetra-(indolyl)methanes Using Green Protocol”*

**Research Grant Approved of Rs. 1,85,000/- ; Utilized and Sanctioned: 1,59,409/-**

► **Administrative Experiences**

1. Teacher-in-Charge of “Students Union” of A. J. C. Bose College from 10.02.2010 to December 2013
2. Head of the Department of Chemistry from 05.09.2011 to 15.08.2013
3. Centre –in-Charge of University Examinations -2015; B. Com P-III(H)
4. Co-ordinator, Routine & Examination Committee from 2013-2015
5. Programme Officer, N.S.S. unit of A. J. c. Bose College from 2014 till date
6. In-Charge , Sports & Games Committee from 2014 till date
7. Supervisor, Staff Selection Commission, examination in 2014-2015

► **Faculty Development Programmes Participated**

Sl. No.	Name of the Programme	Topic	Venue	Date
1.	UGC-Sponsored <b>Refresher Course</b>	Chemistry: Education and Research	UGC-Academic Staff College, University of Calcutta	August 16 to Sept. 06, <b>2013</b>
2.	UGC-Sponsored <b>Refresher Course</b>	In Chemistry	UGC-Academic Staff College, University of Calcutta	August 22 to Sept. 11, <b>2008</b>
3.	UGC-Sponsored <b>Orientation Programme</b>	--	UGC-Academic Staff College, Jadavpur University	August 20 to Sept. 17, <b>2007</b>

## ► Participation of Teaching Learning Material Development

1. Use of power-point presentation by LCD projector for class lecture and seminar presentation
2. Remedial classes for B. Sc. Chemistry Hons. and General courses
3. Use of study material for class lectures for the students
4. Interactive teaching to enhance communication skill and personality development for less able students
5. Organizing and conducting popular programme like seminar or presentation on social work at this college campus

## ► Members of Recognized Body

1. General Members of West Bengal College & University Teachers Association (WBCUTA)
2. Life Member of Indian Chemical Society (ICS), Kolkata
3. Life Member of World Science Congress

## ► Participation in University Examination related Works:

### 2009-2010 Session

1. External Examiner for B. Sc. P-II General Practical Examination at Asutosh College (Paper-III)
2. Internal Examiner for B. Sc. P-III General Practical Examination at A.J.C. Bose College (Paper-IVB)
3. Examiner for B. Sc. P-II General Theoretical Examination (Paper-II)
4. Scrutineer for B. Sc. P-I General Theoretical Examination (Paper-I)

### 2010-2011 Session

1. External Examiner for B. Sc. P-II General Practical Examination at Asutosh College (Paper-III)
2. Internal Examiner for B. Sc. P-I Honours Practical Examination at A.J.C. Bose College (Paper-IIB)
3. Examiner for B. Sc. P-II General Theoretical Examination (Paper-II)
5. Examiner for B. Sc. P-I General Theoretical Examination (Paper-I)
6. Invigilation duty of C.U. Examination at this college centre (16 duties)

### 2011- 2012 Session

1. Internal Examiner for B. Sc. P-II General Practical Examination at A.J.C. Bose College (Paper-III(A+B))
2. Examiner for B. Sc. P-I General Theoretical Supplementary Examination (Paper-I)
3. Examiner for B. Sc. P-I Honours Theoretical Examination (Paper-IA)
4. Examiner for B. Sc. P-I Honours Theoretical Examination (Paper-IA)
5. Scrutineer for B. Sc. P-I Honours Theoretical Examination (Paper-IA)
6. Invigilation duty of C.U. Examination at this college centre (09 duties)

7. Centre-in-Charge of B.A/B. Sc. P-I General examination 2011 dated 3.8.11 to 5.8.11

### **2012- 2013 Session**

1. External Examiner for B. Sc. P-II General Practical Examination at Bhawanipore Education Society College (Paper-III A+B)
2. External Examiner for B. Sc. P-II General Practical Examination at Vidyasagar College (Paper-III A+B)
3. Internal Examiner for B. Sc. P-III General Practical Examination at A.J.C. Bose College (Paper-IV B)
4. Examiner for B. Sc. P-I General Theoretical Supplementary Examination (Paper-I)
5. Examiner for B. Sc. P-II Honours Theoretical Examination (Paper-III A)
6. Invigilation duty of C.U. Examination at this college centre (13 duties)

### **2013- 2014 Session**

1. External Examiner for B. Sc. P-II General Practical Examination at Bhawanipore Education Society College (Paper-III A+B)
2. Internal Examiner for B. Sc. P-II General Practical Examination at this College (Paper-III A+B)
3. Examiner for B. Sc. P-I Honours Theoretical Examination (Paper-IA)
4. Examiner for B. Sc. P-I General Theoretical Examination (Paper-I)
5. Scrutineer for B. Sc. P-I General Theoretical Examination (Paper-I)
6. Examiner for B. Sc. P-II General Theoretical Examination (Paper-II)
7. Invigilation duty of C.U. Examination at this college centre (10 duties)
8. Centre-in-Charge of C.U. B. Com P-II(H), B. Ed 2<sup>nd</sup> Semester and B.A./ B. Sc. P-II(H) examination-2014.

### **2014- 2015 Session**

1. Examiner for B. Sc. P-III General Theoretical Examination (Paper-IVA)
2. Scrutineer for B. Sc. P-III General Theoretical Examination (Paper-IVA)
3. Examiner for B. Sc. P-II General Theoretical Examination (Paper-II)
4. Scrutineer for B. Sc. P-II General Theoretical Examination (Paper-II)
5. Examiner for B. Sc. P-I General Theoretical Examination (Paper-I)
6. Scrutineer for B. Sc. P-I General Theoretical Examination (Paper-I)
7. Examiner for B. Sc. P-II Honours Theoretical Examination (Paper-III A)
8. Examiner for B. Sc. P-I Honours Theoretical Examination (Paper-IA)
9. External Examiner for B. Sc. P-III General Practical Examination at Bhawanipore Education Society College (Paper-4)
10. External Examiner for B. Sc. P-II General Practical Examination at Bhawanipore Education Society College (Paper-3)
11. Internal Examiner for B. Sc. P-III Hons. Practical Examination at A.J.C. Bose College (Paper-VIB)
12. Internal Examiner for B. Sc. P-III Hons. Practical Examination at A.J.C. Bose College (Paper-VIIIA)