



KAZI NAZRUL UNIVERSITY ASANSOL

Faculty Profile

1. Name (Block Letter): DR. UJJAL KANTI ROY
2. Department: Chemistry
3. Current Designation: Associate Professor and **Head**
4. Address for Communication (Present): Advanced Synthesis and Catalysis Laboratory, Department of Chemistry, Kazi Nazrul University, Asansol-713340.
5. Address for Communication (Permanent): Loknath Abasan-2, Kalna Gate, Burdwan-713101.
6. Contact Number: 9732657939 (M)
7. Contact Mail (Personal and Institutional): uroccu@gmail.com (*personal*)
ujjalkanti.roy@knu.ac.in (*Institutional*)
8. Research Degree:

| Degree | Name of the University | Date/ Year of Award |
|-------------------|------------------------|---------------------|
| B.Sc. (Hons.) | Calcutta University | 1999 |
| M.Sc. (Org. Spl.) | Calcutta University | 2001 |
| Ph.D. (Science) | IIT Kharagpur | 2008 |

9. Published Papers in Journals:

| Sl. No | Name of Article | Journal with page no | ISSN /ISBN No | Referred /Non-Referred | No of Co-author | Whether you are the main author | Date of Publication |
|--------|--|------------------------|------------------|------------------------|-----------------|---------------------------------|---------------------|
| 1 | Role of Metal Exchange toward the | Sarmah, K.; Roy U. K.; | 2574-0970 | Referred | 03 | No | 2018 |

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|---|---|--|------------------|----------|----|-----|-------------|
| | Morphology and Photocatalytic activity of Cu/Ag/Au-ZnO: A study with Zn-Na-acetate complex as precursor | Maji, T. K.; Pratihari, S. <i>ACS Appl. Nano Mater.</i> 2018 , <i>1</i> , 2049 | | | | | |
| 2 | Making and Breaking of Sn-C, and In-C Bonds <i>in situ</i>: The Cases of Allyltins and Allylindiums | Roy, U. K.; Roy, S. <i>Chem. Rev.</i> 2010 , <i>110</i> , 2472 | 0009-2665 | Referred | 01 | Yes | 2010 |
| 3 | Recyclable Electrochemical Allylation in Aqueous Medium: Synthesis of Wire Shaped Nano Zinc Architecture | Sinha, A. K.; Mondal, B.; Kundu, M.; Chakraborty, B.; Roy,* U. K. <i>Org. Chem. Front.</i> 2014 , <i>1</i> , 1270 | 2052-4129 | Referred | 04 | Yes | 2014 |
| 4 | Binding interaction of a newly developed bisindole drug molecule with α-cyclodextrin: face to face shielding of indole hoops | Mallick, A.; Majumdar, T.; Halder, B.; Roy, U. K. <i>RSC Adv.</i> 2014 , <i>4</i> , 38206 | 2046-2069 | Referred | 03 | No | 2014 |
| 5 | Photophysical, NMR and density functional study on the ion interaction of norharmane: Proton transfer vs. hydrogen bonding | Mallick, A.; Roy, U. K.; Majumdar, T.; Halder, B.; Pratihari, S. <i>RSC Adv.</i> 2014 , <i>4</i> , 16274 | 2046-2069 | Referred | 04 | No | 2014 |
| 6 | Formation of extended probe–cyclodextrin | Mallick, A.; Halder, B.; Roy,* U. K. | 0009-2614 | Referred | 02 | Yes | 2013 |

| | | | | | | | |
|----|--|--|--|----------|----|-----|-------------|
| | nanotubular supra structures: Endogenous surfactants triggered on-demand release | <i>Chem. Phys. Lett.</i> 2013 , 580, 82 | | | | | |
| 7 | A Newly Developed Highly Selective Ratiometric Fluoride Ion Sensor: Spectroscopic, NMR and Density Functional Studies | Mallick, A.; Roy,* U. K.; Halder, B.; Pratihari, S. <i>Analyst</i> 2012 , 137, 1247 | 0003-2654 | Referred | 03 | Yes | 2012 |
| 8 | First example of a heterobimetallic Pd–Sn catalyst for efficient allylation, benzylation, and propargylation of alcohols with arenes, heteroarenes, active methylenes and allyl-Si nucleophiles | Das, D.; Pratihari, S.; Roy, U. K.; Mal, D.; Roy, S. <i>Org. Biomol. Chem.</i> 2012 , 10, 4537 | 1477-0520 | Referred | 04 | No | 2012 |
| 9 | Dual-Reagent Catalysis within Ir-Sn Domain: Highly Selective Alkylation of Arenes and Heteroarenes with Aromatic Aldehydes Highlighted the work in Synfacts: | Podder, S.; Choudhury, J.; Roy, U. K.; Roy, S. <i>J. Org. Chem.</i> 2007 , 72, 3100. Podder, S.; Choudhury, J.; Roy, U. K.; Roy, S. <i>Synfacts</i> 2007 , 753. | 0022-3263 1861-1958 | Referred | 03 | No | 2007 |
| 10 | Pd(0)/Sn(II) promoted Barbier-type | Roy, U. K.; Roy, S. | 0040-4039 | Referred | 01 | Yes | 2007 |

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|----|--|---|--|----------|----|-----|-------------|
| | allylation and crotylation of sulfonimines | <i>Tetrahedron Lett.</i> 2007 , 48, 7177 | | | | | |
| 11 | Pd(0)/Sn(II)-mediated three-component cascade coupling (3-C³) approaches Highlighted the work in Synfacts: | Roy, U. K.; Jana, P. K.; Roy, S. <i>Tetrahedron Lett.</i> 2007 , 48, 1183 Roy, U. K.; Jana, P. K.; Roy, S. <i>Synfacts</i> 2007 , 0477 | 0040-4039 1861-1958 | Referred | 02 | Yes | 2007 |
| 12 | SnCl₂ mediated efficient <i>N,N</i>-dialkylation of azides to tertiary-amine via potential stannamine intermediate | Roy, U. K.; Roy, S. J. <i>Organomet. Chem.</i> 2006 , 691, 1525 | 0022-328X | Referred | 01 | Yes | 2006 |
| 13 | Highly efficient water promoted allylation and propargylation of aryl epoxides via rearrangement-carbonyl addition | Roy, U. K.; Roy, S. <i>Tetrahedron</i> 2006 , 62, 678 | 0040-4020 | Referred | 01 | Yes | 2006 |
| 14 | Synthesis of Alkynyl and Vinyl Selenides via Selenodecarboxylation of Arylpropionic and Cinnamic Acids | Das, J. P.; Roy, U. K.; Roy, S. <i>Organometallics</i> 2005 , 24, 6136 | 0276-7333 | Referred | 02 | No | 2005 |
| 15 | Tuning the reactivity of organotin(IV) by LiOH: Allylation and propargylation of epoxides via redox | Banerjee, M.; Roy, U. K.; Sinha, P.; Roy, S. J. <i>Organomet.</i> | 0022-328X | Referred | 03 | No | 2005 |

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|--|------------------------|---|--|--|--|--|--|
| | transmetalation | <i>Chem.</i> 2005 , 690, 1422 | | | | | |
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10. Articles/Chapters Published in Edited Volume:

| Sl. No | Name of Article/chapter | Name of Edited Volume, Editor and Publisher | ISBN No. | No of Co-author | Whether you are the main author | Date of Publication |
|--------|--|---|---------------|-----------------|---------------------------------|---------------------|
| 1 | Bis(1,5-cyclooctadiene) diiridium/rhodium(I)-dichloride- Tin(II) chloride | <i>Encyclopedia of Reagents for Organic Synthesis</i> ; Paquette, L. A., Crich, D., Fuchs, P. L., Molander, G., Eds.; Wiley: New York | 9780470842898 | 01 | No | 2009 |
| 2 | Tris(dibenzylideneacetone) dipalladium(0)-Tin(II) chloride | <i>Encyclopedia of Reagents for Organic Synthesis</i> ; Paquette, L. A., Crich, D., Fuchs, P. L., Molander, G., Eds.; Wiley: New York | 9780470842898 | 01 | No | 2009 |
| 3 | Copper(II) chloride/bromide- Tin(II) chloride | <i>Encyclopedia of Reagents for Organic Synthesis</i> ; Paquette, L. A., Crich, D., Fuchs, P. L., Molander, G., Eds.; Wiley: New York | 9780470842898 | 01 | No | 2009 |
| 4 | Dichlorobis(triphenylphosphine)-platinum(II)-Tin(II) chloride | <i>Encyclopedia of Reagents for Organic Synthesis</i> ; Paquette, L. A., Crich, D., Fuchs, P. L., Molander, G., Eds.; Wiley: New York | 9780470842898 | 01 | No | 2009 |

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|--|--|---|---|--|--|--|
| | | Paquette, L. A., Crich, D., Fuchs, P. L., Molander, G., Eds.; Wiley: New York | 8 | | | |
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11. Full Papers in Conference Proceedings:

| Sl. No | Title with Page No | Details of Conference Publication | ISSN/ ISBN No | No of Co-author | Whether you are the main author | Date of Publication |
|--------|---|---|-------------------|-----------------|---------------------------------|---------------------|
| 1. | Multi Component Allylation Reactions: An Atom-Economy Approach towards Green Chemistry, p286 | Full paper presentation by <u>Roy, U.K.</u> at the National Seminar “ <i>Green Chemistry and Sustainable Agriculture Practices: A Step towards a Better Future</i> ”, 1 st – 2 nd February, 2013 at Panchakot Mahavidyalaya, Purulia, India | 978-81-921697-3-6 | NIL | Yes | 2013 |
| 2. | Recyclable Electrochemical Allylation in Aqueous Medium: Synthesis of Wire Shaped Nano Zinc Architecture, p78 | Full paper presentation by <u>Roy, U.K.</u> at the National Seminar “ <i>Current Trends in Chemistry</i> ”, 25 th – 26 th November, 2011 at Deshabandhu Mahavidyalaya, Chittaranjan, India | 987-81-929996-3-0 | NIL | Yes | 2016 |
| 3. | Multi Component Reactions for Tetrahydropyran Synthesis: Green Atom-Economy Approach, p196 | Full paper presentation by <u>Roy, U.K.</u> at the UGC-Sponsored National Level Seminar “ <i>The Biggest Challenge of Green Chemistry: To Use Its</i> | 978-93-5254-066-2 | NIL | Yes | 2015 |

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|----|--|---|--|--|--|--|
| | | <i>Rule in Practice</i> ”, 8 th –9 th October, 2015 at A. K. P. C. Mahavidyalaya, Purulia, India | | | | |
| 4. | | | | | | |

12. Published Books or Edited Volume:

| Sl. No. | Title | Book or Edited Volume | Publisher & ISBN No. (I. International II. National III. Regional) | Whether Peer Reviewed | No of Co-author/s | Whether you are the main author | Date of Publication |
|---------|---|-----------------------|--|-----------------------|-------------------|---------------------------------|---------------------|
| 1 | From Structure to Reactivity: Current Trends in Chemistry | Edited Volume | 987-81-929996-3-0 (II. National) | No | 18 | Yes | 02.05.2016 |
| | | | | | | | |

13. Papers Presented in Conferences/Seminars/Workshops/ Symposia:

| Sl. No | Title of the Paper Presented | Title of the Conference/ Seminar/ Symposia | Organising Authority | Whether International/ National/ State/ Regional/ University/ College Level | Date of presenting the Paper |
|--------|---|--|---|---|--------------------------------|
| 1 | <u>Roy, U. K.</u> ; Roy, S. Presentation entitled “C-C and C-N bond formation <i>via</i> novel Sn(IV) intermediates” selected as the best presentation at the | 8 th National Symposium in Chemistry (NSC-8), | Department of Chemistry, Indian Institute of Technology, Bombay, India. | National | 4 th February, 2006 |

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| | 8th National Symposium in Chemistry (NSC-8), 3-5 February, 2006 held at Department of Chemistry, I.I.T. Bombay, India. | | | | |
| 2 | Roy, U. K.; Roy, S. Presentation entitled “SnCl ₂ mediated efficient C-C and C-N bond formation” at the 5th One Day National Symposium in Chemistry, 6 th August, 2005 held at Department of Chemistry, I.I.T. Kharagpur, India. | 5th One Day National Symposium in Chemistry | Department of Chemistry, Indian Institute of Technology, Kharagpur, India | National | 6 th August, 2005 |
| 3 | Full paper by Roy, U. K. entitled “Multi Component Allylation Reactions: An Atom-Economy Approach towards Green Chemistry” at the National Seminar “Green Chemistry and Sustainable Agriculture Practices: A Step towards a Better Future”, 1 st – 2 nd February, 2013 at Panchakot Mahavidyalaya, | Green Chemistry and Sustainable Agriculture Practices: A Step towards a Better Future | Department of Chemistry, Panchakot Mahavidyalaya, Purulia, India | National | 1 st August, 2013 |

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| | Purulia, India | | | | |
| 4 | Full paper presentation by <u>Roy, U.K.</u> entitled “Recyclable Electrochemical Allylation in Aqueous Medium: Synthesis of Wire Shaped Nano Zinc Architecture” at the UGC-Sponsored National Level Seminar “ <i>Current Trends in Chemistry</i> ”, 25 th – 26 th November, 2011 at Deshabandhu Mahavidyalaya, Chittaranjan, India | <i>Current Trends in Chemistry</i> | Department of Chemistry, Deshabandhu Mahavidyalaya, Chittaranjan, India | National | 26 th November, 2011 |
| 5 | Full paper presentation by <u>Roy, U.K.</u> entitled “Multi Component Reactions for Tetrahydropyran Synthesis: Green Atom-Economy Approach” at the UGC-Sponsored National Level Seminar “ <i>The Biggest Challenge of Green Chemistry: To Use Its Rule in Practice</i> ” | <i>The Biggest Challenge of Green Chemistry: To Use Its Rule in Practice</i> | Department of Chemistry, A. K. P. C. Mahavidyalaya, Purulia, India | National | 9 th October, 2015 |

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|---|---|---|---|----------|---------------------------------|
| | Practice”, 8 th –9 th October, 2015 at A. K. P. C. Mahavidyalaya, Hooghly, India | | | | |
| 6 | Mondal, B.; Roy, U. K.. Presentation entitled "New Carbon-Carbon Bond Formation: Electrochemical Reactions, Green Chemistry Approaches and Role of Nano-Architecture" at the 2 nd Regional Science and Technology Congress (Western Region), 16 th -17 th November, 2017 at The University of Burdwan, Burdwan, India. | 2 nd Regional Science and Technology Congress (Western Region) | The University of Burdwan, Burdwan, India. | Regional | 16 th November, 2017 |
| 7 | Kundu, M.; Mondal, B.; Roy, U. K.. Presentation entitled " Multi Component Allylation Reactions: An Atom-Economy Approach towards Green Chemistry" at the National Seminar “Recent Developments in Green Chemistry | Recent Developments in Green Chemistry (RDGC-2015) | Department of Chemistry, Gushkara College, Burdwan, India | National | 22 nd March, 2015 |

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| | (RDGC-2015)” on 22 nd March, 2015 at Gushkara College, Burdwan, India. | | | | |
| 8 | Mondal, B.; Mandal, S.; Adhikari, U.; Roy, U. K. presentation entitled “Electrochemical Synthesis and Reactivity of Wire Shaped Nano-Zinc Architecture” at “ <i>National Confarence on Bose-Thakur National Workshop on Advanced Matter of Physics</i> ”, organised by Department of Physics, Visva-Bharati, Santiniketan, W.B., 3-4 August, 2018 | <i>National Confarence on Bose-Thakur national workshop on advanced matter of physics</i> | Department of Physics, Visva-Bharati, Santiniketan | National | 3 rd August, 2018 |
| 9 | Kundu, M.; Mondal, B.; Roy, U. K. Presentation entitled “Making and Breaking of In-C Bonds <i>in situ</i> : Generation and Reactivity of Allylindiums” at National Seminar | <i>Design, Synthesis, Charecterizati on, Reactivity, Theoritical study and Application of Different Advanced Funstional</i> | The University Of Burdwan, Burdwan | National | 21st –23rd December, 2017 |

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|----|--|---|--|---------------|---------------------------------|
| | <p><i>“Design, Synthesis, Charecterization, Reactivity, Theoritical study and Application of Different Advanced Funstional Materials”</i> by on 21st –23rd December, 2017, at The University Of Burdwan, Burdwan</p> | <i>Materials</i> | | | |
| 10 | <p>Mondal, S.; Mondal, B.; Kundu, M.; Roy, U. K. presentation full paper entitled “Electrochemical Reactions and Formation of Wire Shaped Nano Zinc Architecture” at the International Conference “<i>Emerging Trends in Engineering and Science (ETES2018)</i>” on 23rd –24th March, 2018 at Asansol Engineering College, Asansol</p> | <p><i>Emerging Trends in Engineering and Science (ETES2018)”</i></p> | Asansol Engineering College, Asansol | International | 23 rd March, 2018 |
| 11 | <p>Mondal, B.; Utpal, A.; and Roy, U. K. presentation “Electrochemical Synthesis and Reactivity of noodle shaped nano zinc architecture”</p> | <p><i>International Conference on Advancement in Science and Technology (ICAST-2018)”</i></p> | Indian JSPS Alumni Association in association with Department of Physics, Visva-Bharati, Santiniketan, India | International | 3 rd September, 2018 |

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| | at “ <i>International Conference on Advancement in Science and Technology (ICAST-2018)</i> ” organized by Indian JSPS Alumni Association in association with Department of Physics, Visva-Bharati, Santiniketan, India on 3-4 September, 2018 | | | | |
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14. Organising Seminar/Conference/Symposia:

| Sl. No | Whether you are Convenor/C o-convenor | Theme of the Conference/ Seminar/ Symposia | Whether International/ National/ Regional/ State/ University Level | Funding Authority | Date of the Conference/Seminar/Symposia |
|--------|---------------------------------------|--|--|-------------------|---|
| 1 | Convenor | Organised UGC sponsored 02 day's National Seminar on “Current Trends in Chemistry” | National | UGC | 25-26 November, 2011 |
| 2 | Convenor | One Day Seminar on Life and Works of Professor Acharya Prafulla Chandra Ray | University Level | KNU | 2 nd August, 2018 |
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15. Invited Lectures/Chairing the Session or Presentation for Conferences/Seminar/Symposia etc:

| Sl. No | Title of the Lecture/ Academic Session | Title of the Conference/ Seminar | Organizing Authority | Whether International/N ational/ State/ Regional/ University/ College Level | Date of Conference/ Seminar/ Symposia |
|--------|--|---|---|--|--|
| 1 | Invited Lecture ' Career & Course Options in Science after 10th & Plus 2 ' in the seminar ' <i>Science Education as Future Career</i> ', organized by Deshabandhu Mahavidyalaya, Chittaranjan – 713331 and Sponsored by Department of Science and Technology, Government of West Bengal during 29.09.2011 to 30.09.2011. | <i>Science Education as Future Career</i> | Deshabandhu Mahavidyalaya , Chittaranjan – 713331 and Sponsored by Department of Science and Technology, Government of West Benga | College | 29.09.2011 to 30.09.2011 |
| 2 | Invited Lecture ' Carbon-Carbon Bond Formation by Redox Reactions: Green Chemistry Approaches and Role of Nano-architecture ' in ' <i>Current Perspectives on Research on Chemical Sciences (CPRCS-2015)</i> ', | <i>Current Perspectives on Research on Chemical Sciences (CPRCS-2015)</i> | National Conference organized by Department of Chemistry, Assam University | National | March 25-26, 2015 |

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|---|--|--|---|----------|------------------------|
| | National Conference organized by Department of Chemistry, Assam University during March 25-26, 2015 | | | | |
| 3 | Invited Lecture ‘Career in Science After +2 level: An Overview’ in one day Lecture Workshop on <i>‘Remembering the missile man: India’s father of dreams that does not let one sleep’</i> organised by Kashipur Michael Madhusudan Mahavidyalaya, Kashipur, Purulia-723132 on 11th September, 2015. | Lecture Workshop on <i>‘Remembering the missile man: India’s father of dreams that does not let one sleep’</i> | organised by Kashipur Michael Madhusudan Mahavidyalaya, Kashipur, Purulia-723132 | College | 11th September, 2015. |
| 4 | Invited Lecture ‘New Carbon-Carbon Bond formation: Redox Reactions, Green Chemistry Approaches and Role of Nano-architecture’ in <i>‘Recent Advances in Chemistry for Better Tomorrow (RACBT-2016)’</i> , a National Conference organized by Department of Chemistry, Kashipur Michael Madhusudan | <i>Recent Advances in Chemistry for Better Tomorrow (RACBT-2016)</i> | Department of Chemistry, Kashipur Michael Madhusudan Mahavidyalaya, Kashipur, (in collaboration with the Department of Chemistry, Raghunathpur College) | National | November, 24-25, 2016. |

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| | Mahavidyalaya, Kashipur, (in collaboration with the Department of Chemistry, Raghunathpur College) during November, 24-25, 2016. | | | | |
| 5 | Invited Lecture 'Carbon-Carbon and Carbon-Nitrogen Bond formation by magnetically separable nano catalysts' in 'Recent Trends in Chemical Sciences (RTCS-2017)', a National Symposium organized by Department of Chemistry, National Institute of Technology Meghalaya, Meghalaya, during October, 12-13, 2017. | <i>Recent Trends in Chemical Sciences (RTCS-2017)</i> | National Symposium organized by Department of Chemistry, National Institute of Technology Meghalaya, Meghalaya, | National | October, 12-13, 2017. |
| 6 | Invited Lecture 'Organic Electronic Materials: Low Band Gap Polyselenophenes and Oligoselenophenes' in Asansol Girls College on 7 th May, 2018 | <i>Trends in Chemical Sciences</i> | Department of Chemistry, Asansol Girls College | College | 7 th May, 2018 |

16. Ongoing Projects/Consultancies:

| Sl. No | Title | Agency | Period | Grant/Amount Mobilized (Rs.) |
|--------|-------------|----------|--------|------------------------------|
| 1 | (Submitted) | DST-SERB | | |
| 2 | (Submitted) | WBDST | | |

17. Completed Projects/Consultancies:

| Sl. No | Title | Agency | Period | Grant/Amount Mobilized (Rs.) |
|--------|--|----------|-----------|------------------------------|
| 1 | DST-Fast Track Proposal for Young Scientists in Chemical Science entitled “Tuning the Reactivity of High Valent Late Transition Metal Catalysts for Carbon-Carbon and Carbon-Heteroatom Bond Formation” (SR/FT/CS-137/2011) | DST-SERB | 2013-2016 | 22.78 Lacs |
| 2 | UGC-Minor Research Project in Chemical Science entitled “ <i>In situ</i> generation and reactivity of allylindium <i>via</i> redox - transmetallation of Indium(I)/Transition metal catalyst” (UGC Minor Research Project: F. PSW 017/11 -12 (ERO)) | UGC | 2012-2014 | 1.94 Lacs |

18. Received Research Fellowship/ Awards:

| Sl. No | Title | Funding Authority | Period | Grant/Amount Mobilized (Rs.) |
|--------|---|---|-----------|------------------------------|
| 1 | Post-Doctoral Fellowship -2009 from the Feinberg Graduate School, Weizmann Institute of Science, Israel | Feinberg Graduate School, Weizmann Institute of Science, Israel | 2009-2010 | ~1,50,000/- (pm) |
| 2 | DST-Research Associate | Research Associate | 2008-2009 | 16,000/- (pm) |

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|---|---|------------------------------|-----------|----------|
| | Fellowship-2008 | Fellowship-DST, New Delhi | | |
| 3 | CSIR-Senior (& extended) Research Fellowship-2007 | CSIR, New Delhi | 2007-2008 | Variable |
| 4 | NET JRF 2001 (CSIR-UGC) Fellowship, within top 10% (called for SPM interview) | UGC, New Delhi | 2002-2006 | Variable |
| 5 | GATE Fellowship-2002 (Percentile 98.97, All India Rank 26) | - | 2001-2006 | - |

19. Academic Staff College Organised Orientation/ Refresher Courses Attended:

| Name of the Courses | Place | Duration From | Sponsoring Authority |
|-----------------------|---|--------------------------------|----------------------|
| Orientation Programme | Academic Staff College, Burdwan University. | 04/06/2013 to 01/07/2013 | UGC |
| Refresher Course | Academic Staff College, Burdwan University. | 11/06/2014 to 01/07/2014 | UGC |

20. Training Courses, Teaching-Learning-Evaluation Technology Programmes, Faculty Development Programme:

| Sl. No | Programme/Course | Duration | Organising Authority | Period |
|--------|------------------|----------|----------------------|--------|
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21. Research Guidance: NIL

| Sl. No | Name of the Research Student | Title of the Thesis/Dissertation | Date of Thesis Submission | Date of Degree Awarded |
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22. Any other Information: NIL