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|  | **Name (Block letters)** | **:** | **DR. RABIUL ALAM** |
| **1.** | **Department** | **:** | **Chemistry** |
| **2.** | **Address for correspondence (with pin code)** | **:** | **SURI, LALAKUTHI PARA, P.O+P.S- SURI, DIST-BIRBHUM; PIN:731101** |
| **3.** | **Permanent Address (with pin code)** | **:** | **SURI, LALAKUTHI PARA, P.O+P.S- SURI, DIST-BIRBHUM; PIN:731101** |
|  | **4. Telephone no.** | **:** |  | **Mobile No. xxxxxxxxxx** |  |
|  | **5. E-mail: rabiul.alam@gmail.com** |
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**6. Academic Staff College Orientation/ Refresher Course attended during the year:**

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| --- | --- | --- | --- |
| **Name of the Course/Summer School** | **Place** | **Duration** | **Sponsoring Agency** |
| **Orientation programme** | **The Human Resource Development Centre, The University of Burdwan, Burdwan** | **04.09.2018 to 01.10.2018** **28 Days** | **UGC** |
| **Refresher Course** | **The Human Resource Development Centre, The University of Burdwan, Burdwan** | **25.06.2019 to 08.07.2019** **14 Days** | **UGC** |

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| **7.** | **a. Date of Appointment** | **:** | **24.03.2015** |
|  | **b. Date of Confirmation** | **:** | **24.03.2015** |

**8. Educational Qualification (Graduation onwards):**

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| --- | --- | --- |
| **Examination** | **Name of the University** | **Year of passing** |
| **B.A./B.Sc./B.Com.** | **THE UNIVERSITY OF BURDWAN** | **2009** |
| **M.A./M.Sc./M.Com.** | **THE UNIVERSITY OF BURDWAN** | **2011** |
| **Others Examination** | **NET** | **December 2010** |

1. **Research Degree (s):**

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| --- | --- | --- | --- |
| **Degree** | **Name of the University** | **Date of award** | **Title** |
| **Ph.D** | **Jadavpur University** | **25.4.2018** | **"*Fluorescent Molecular Sensors for Cation Recognition: Design, Synthesis and Intracellular Studies*"** |

**10. Details of Teaching/ Research/Academic Experience:**

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| --- | --- | --- |
| **Designation** | **Employer** | **Period of service****From To** |
| **Assistant Professor in Chemistry** | **Principal, Rabindra Mahavidyalaya, Champadanga, Hooghly** | **23.03.2015 till date** |

**List of Publications**

1. A novel chromo- and fluorogenic dual sensor for Mg2+ and Zn2+ with cell imaging possibilities and DFT studies.

**Rabiul Alam**, T. Mistri, A. Katarkar, K. Chaudhuri, S. K. Mandal, A.R. Khuda-Bukhsh, K. K. Das and M. Ali, *Analyst*, 2014, **139**, 4022.

1. A novel copper(II) complex as a nitric oxide turn-on fluorosensor: intracellular applications and DFT calculation.

**Rabiul Alam**, T. Mistri, P. Mondal, D. Das, S. K. Mandal, A.R. Khuda-Bukhsh and M. Ali, *Dalton Trans*., 2014, **43**, 2566.

1. Dual channel selective fluorescent detection of Al3+ and PPi in mixed aqueous media: DFT studies and cell imaging applications.

**Rabiul Alam**, T. Mistri, R. Bhowmick, A. Katarkar, K. Chaudhuri and M. Ali, *RSC Adv*., **2015**, **5**, 53940.

1. ESIPT blocked CHEF based differential dual sensor for Zn2+ and Al3+ in a pseudo-aqueous medium with intracellular bio-imaging applications and computational studies†.

**Rabiul Alam**, T. Mistri, R. Bhowmick, A. Katarkar, K. Chaudhuri and M. Ali, *RSC Adv*., **2016**, **6**, 1268.

1. Synthesis, structure, catalytic and magnetic properties of a pyrazole based five coordinated di-nuclear cobalt (II) complex.

**Rabiul Alam**, K. Pal , B. K. Shaw , M. Dolai, N. Pal, S. K. Saha and M. Ali*, Polyhedron*, **2016**, **106**, 84.

6. A rhodamine based fluorescent trivalent sensor (Fe3+, Al3+, Cr3+) with potential applications for a live cell imaging and combinatorial logic circuit and memory device.

 **Rabiul Alam**, R. Bhowmick, A. S. M. Islam, A.Katarkar, K. Chaudhuri and M. Ali, *New J. Chem.*, **2017**, **41**, 8359-8369.

 7. A thiosemicarbazone based chemo and fluorogenic sensor for Zn2+ with CHEF and ESIPT behaviour: computational studies and cell imaging application.

R. Bhowmick, **Rabiul Alam**, T. Mistri, K. K. Das, A. Katarkar, K. Chaudhuri and M. Ali, *RSC Adv*., **2016**, **6**, 11388.

1. Rhodamine-Based Chromo-/Fluorogenic Dual Signalling Probe for Selective Recognition of HgII with Potential Applications for INHIBIT Logic Devices and Cell- Imaging Studies.

T. Mistri, **Rabiul Alam**, M. Dolai, S.K. Mandal, P. Guha, A.R. Khuda-Bukhsh, M. Ali, *Eur. J. Inorg. Chem*., **2013**, 5854.

1. A 7-nitrobenz-2-oxa-1,3-diazole based highly sensitive and selective turn-on chemo sensor for copper(II) ion with intracellular application without cytotoxicity.

T. Mistri, **Rabiul Alam**, M. Dolai, S. K. Mandal, A.R. Khuda-Bukhsh and M. Ali, *Org. Biomol. Chem*., 2013, **11**, 1563.

1. Di-oxime based selective fluorescent probe for arsenate and arsenite ions in a purely aqueous medium with living cell imaging applications and H-bonding induced microstructure formation.

A.S.M. Islam, **Rabiul Alam**, A. Katarkar, K. Chaudhuri and M. Ali, *Analyst*, **2015**, **140**, 2979.

 11. A rhodamine embedded bio-compatible smartmolecule mimicking a combinatorial logic circuit and ‘key-pad lock’ memory device for defendingagainst information risk†.

T. Mistri, **Rabiul Alam**, R. Bhowmick, A. Katarkar, K.Chaudhuri and M. Ali, *New J. Chem*., **2016**, **40**, 330.

12. Morphology-Directing Synthesis of Rhodamine-Based Fluorophore Microstructures and Application toward Extra- and Intracellular Detection of Hg2+.

 R. Bhowmick, **Rabiul Alam**, T. Mistri, D. Bhattacharya, P. Karmakar and M. Ali, *ACS Appl. Mater. Interfaces*, **2015**, **7**, 7476.

13. Oxime Based Selective Fluorescent Sensor forArsenate Ion in a Greener Way with Bio-Imaging Application.

 M. Dolai, **Rabiul Alam**, A. Katarkar, K.Chaudhuri and M. Ali, *ANALYTICAL SCIENCES*, **2016**, **32**, 1295.

 14. A novel pyrene-2-(pyridin-2-ylmethylsulfanyl) ethylamine based turn-on dual sensor for Al3+: experimental and computational studies.

 R. Bhowmick, M. Dolai, **Rabiul Alam**, T. Mistri, A. Katarkar, K. Chaudhuri and M. Ali, *RSC Adv*., 2014, **4**, 41784.

15. Chemistry of transition metal carbene complexes: nucleophilic substitution reactions of cyanamide anion to Fischer carbene complexes†.

S. Gangopadhyay, T. Mistri, M. Dolai, **Rabiul Alam** and M.Ali, *Dalton Trans*., 2013, **42**, 567.

16. A dual response fluorescent sensor for HNO and S2− ions using a Cu(II) complex based probe assisted by detailed DFT studies†

Ananya Dutta, **Rabiul Alam**, Abu Saleh Musha Islam, Arpan Dutta and Mahammad Ali, *Dalton Trans*., **2018**, **47**, 11563-11571.

17. A rhodamine –based turn-on nitric oxide sensor in aquous medium with endorgenous cell imaging : an unusal formation of nitrosohydroxylamine†

**Rabiul Alam**, Abu Saleh Musha Islam, Mihir Sasmal, Atul Katarkar and Mahammad Ali, *Org. Biomol.Chem*., **2018**, **16**, 3910-3920.

18. A differentially selective probe for trivalent chemosensor upon single excitation with cell imaging application: potential application in combinatorial logic circuit and memory devices†

Dipankar Das**, Rabiul Alam**, Atul Katarkar and Mahammad Ali, *Photochem.Photobiol.Sci.,***2019**, **18**, 242-252.

 I declare that the particulars given above are correct to the best of my knowledge and belief.