

CURRICULUM VITAE

OVERVIEW

Dr. Manas Kumar Biswas

Assistant Professor

Asutosh College

92, S. P. Mukherjee Road, Kolkata 26

PhD in Inorganic Chemistry

From University of Calcutta

Title of the Thesis

“Heavier Transition Metal Complexes of Quinone Based Organic Radicals”

--under supervision of
Dr. Prasanta Ghosh

2014 | Ph.D.
2007 | NET
2007 | M.Sc.
2004 | B.Sc. (Hons.)
2001 | Higher Secondary
1999 | Secondary

Research Experience

Apr'08 to Aug'08 CSIR-JRF
Feb'09 to Feb'12 DST-JRF
Apr'12 to Mar'14 CSIR-SRF

Teaching Experience

2007-till date B.Sc. Theory & Practical
2007-till date M.Sc. Theory & Practical

Research Outline

Researcher ID: [H-8615-2014](#)
Total Publication: **11** (International: 11, National: 0)
Total Impact Factor: **40.473**
Average Impact Factor: **3.679**
Maximum Impact: **6.567**
Total Citation: **61**
Citation per Publication: **5.3**
h-index: **5**
i10 index: **3**
RG Score: **18.31**

*Reviewer of the Journals of
Royal Society of Chemistry*
Manuscript Reviewed: 5 (Since 2014)

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PARTICULARS

Personal Details

Name: [Dr. Manas Kumar Biswas](#)

Father's Name: [Mr. Mihir Kumar Biswas](#)

Date of Birth: [June 16, 1983](#)

Gender: [Male](#)

Nationality: [Indian](#)

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Educational Qualifications

Examination Passed	Subjects/ Specialization	Name of the University/ Board	Year of Passing	% of Marks
Secondary	Bengali, English, Mathematics, Physical Science, Life Science, History, Geography, Physics (Addl)	West Bengal Board of Secondary Education	1999	79.0%
Higher Secondary	Bengali, English, Chemistry, Physics, Mathematics, Biological Sciences	West Bengal Council of Higher Secondary Education	2001	76.5%
B. Sc.	Chemistry (Hons.), Physics, Mathematics, Bengali, English, Environmental Studies	University of Calcutta (From Ramakrishna Mission Residential College, Narendrapur)	2004	55.0%
M. Sc.	Chemistry	Guru Ghasidas University (From D. P. V. College, Bilaspur)	2007	66.9%

[Qualified NET organized jointly by CSIR and UGC on December 2007, Result obtained on March 2008.](#)

Research Fellowships

Fellowship	Agency	Tenure
Junior Research Fellowship	CSIR	April 2008 to August 2008
Junior Research Fellowship	DST	February 2009 to February 2012
Senior Research Fellowship	CSIR	April 2012 to March 2014

Research Publications

1. Stereoselective non-equivalent bis-diimine coordination to Co(II) ion: Structure, luminescence and density functional theory calculations
Amit Saha Roy, [Manas Kumar Biswas](#), Thomas Weyhermüller, Prasanta Ghosh
Inorganica Chimica Acta, **2010**, *363*, 2874-2880.
DOI: [10.1016/j.ica.2010.03.017](https://doi.org/10.1016/j.ica.2010.03.017)
Impact Factor: 1.918
2. Unsymmetrical diimine complexes of iron(II) and manganese(II): synthesis, structure and photoluminescence of an isomer
Amit Saha Roy, [Manas Kumar Biswas](#), Thomas Weyhermüller and Prasanta Ghosh
Dalton Transactions, **2011**, *40*, 146-155.
DOI: [10.1039/C0DT00883D](https://doi.org/10.1039/C0DT00883D)
Impact Factor: 4.177
3. Osazone Anion Radical Complex of Rhodium(III)
Sarat Chandra Patra, [Manas Kumar Biswas](#), Amarendra Nath Maity, and Prasanta Ghosh
Inorganic Chemistry, **2011**, *50*, 1331-1338.
DOI: [10.1021/ic101945d](https://doi.org/10.1021/ic101945d)
Impact Factor: 4.820
4. Electronic Structures of Ruthenium and Osmium Complexes of 9,10-Phenanthrenequinone
[Manas Kumar Biswas](#), Sarat Chandra Patra, Amarendra Nath Maity, Shyue-Chu Ke, Nirmal Das Adhikary, and Prasanta Ghosh
Inorganic Chemistry, **2012**, *51*, 6687-6699.
DOI: [10.1021/ic300327x](https://doi.org/10.1021/ic300327x)
Impact Factor: 4.820
5. Synthesis, structure and DNA binding studies of 9-phenyldibenzo[*a,c*]phenazin-9-ium
Suman Kundu, [Manas Kumar Biswas](#), Ananya Banerjee, Kakali Bhadra, Gopinatha Suresh Kumar, Michael G. B. Drew, Ranjan Bhadra and Prasanta Ghosh
RSC Advances, **2013**, *3*, 3054-3061.
DOI: [10.1039/C2RA22317A](https://doi.org/10.1039/C2RA22317A)
Impact Factor: 3.289

6. 9,10-Phenanthrenesemiquinone radical complexes of ruthenium(III), osmium(III) and rhodium(III) and redox series
Manas Kumar Biswas, Sarat Chandra Patra, Amarendra Nath Maity, Shyue-Chu Ke, Thomas Weyhermüller and Prasanta Ghosh
Dalton Transactions, 2013, 42, 6538-6552.
DOI: 10.1039/C3DT00038A
Impact Factor: 4.177
7. Asymmetric cleavage of 2,2'-pyridil to picolinic acid anion radical coordinated to ruthenium(II): splitting of water to hydrogen
Manas Kumar Biswas, Sarat Chandra Patra, Amarendra Nath Maity, Shyue-Chu Ke, Thomas Weyhermüller and Prasanta Ghosh
Chemical Communications, 2013, 49, 4522-4524.
DOI: 10.1039/C3CC40956B
Impact Factor: 6.567
8. Oxidovanadium(IV), oxidomolybdenum(VI) and cobalt(III) complexes of *o*-phenylenediamine derivatives: oxidative dehydrogenation and photoluminescence
Satyabrata Chaudhuri, Sachinath Bera, Manas Kumar Biswas, Amit Saha Roy, Thomas Weyhermüller and Prasanta Ghosh
Inorganic Chemistry Frontiers, 2014, 1, 331-341.
DOI: 10.1039/C3QJ00103B
Impact Factor: 4.532
9. Mononuclear zinc(II), cadmium(II), cobalt(III) and di-nuclear nickel(II) complexes of a 14pi electron diimine ligand: Syntheses, structures, photoluminescence and DFT investigations
Satyabrata Chaudhuri, Suman Kundu, Manas Kumar Biswas, Thomas Weyhermüller and Prasanta Ghosh
Inorganica Chimica Acta, 2015, 430, 199-207.
DOI: 10.1016/j.ica.2015.02.032
Impact Factor: 1.918
10. In vitro and in vivo Anticancer Effects of a Novel 9-Phenyldibenzo[*a,c*]phenazin-9-ium Cation and Its Ligands
Satyajit Das, Kaushik Banerjee, Manas Kumar Biswas, Ranjan Bhadra, Prasanta Ghosh, Soumitra Kumar Choudhuri
Chemotherapy, 2014, 60, 261-266.
DOI: 10.1159/000381635
Impact Factor: 1.288
11. Induction of intrinsic and extrinsic apoptosis through oxidative stress in drug resistant cancer by a newly synthesized Schiff base copper chelate
Kaushik Banerjee, Soumya Basu, Satyajit Das, Abhinaba Sinha, Manas Kumar Biswas, Soumitra Kumar Choudhuri
Free Radical Research, 2016, 50, 426-446.
DOI: 10.3109/10715762.2015.1136062
Impact Factor: 2.967

Research Degree

Name of Degree	Subject	University	Date of Thesis Submission	Date of Award of Degree	Name of Supervisor
Ph. D.	Inorganic Chemistry	University of Calcutta	15-07-2013	21-03-2014	Dr. Prasanta Ghosh

Thesis Title: Heavier Transition Metal Complexes of Quinone Based Organic Radicals

Paper Presented in Conference / Symposium (International level)

Sl. No.	Name of the International Conference / Symposium with Venue	Month/ Year	Title of the paper
1.	International Symposium on Frontiers in Inorganic Chemistry (FIC - 2010), Department of Inorganic Chemistry, IACS, Kolkata, India	12/2010	Electronic Structures of Ruthenium and Osmium Complexes of 9,10-Phenanthrenequinone
2.	Symposium on Modern Trends in Inorganic Chemistry - XIV (MTIC - XIV), School of Chemistry, University of Hyderabad, Hyderabad, India	12/2011	Osazone Anion Radical Complex of Rhodium(III) (Best Poster Award Winner)

Workshop Training Programmes Attended

Sl. No.	Title	Venue	Duration	Sponsoring Authority
1.	Introduction to Gaussian: Theory and Practice	Central Leather Research Institute, and the IIT Madras	5 days (Jan 2-6, 2012)	Gaussian, Inc.

Conference / Seminar Organized as Member of the Organizing Committee

Sl. No.	Title of the Conference / Seminar Organized	Month / Year	Venue	Sponsoring Authority
1.	Seventh Symposium on Current Trends of Chemical Research	08/2009	RKM Residential College, Narendrapur, Kolkata 103	CRSI
2.	Celebration of International Year of Chemistry - 2011, Current Trends in Chemical Research	06/2011	RKM Residential College, Narendrapur, Kolkata 103	UGC

Symposium: Participation Only

- Friends of Inorganic Chemistry 2008, National Symposium, Jadavpur University, Kolkata
- CRSI Symposium 2010, Kolkata Chapter, BESU, Howrah
- CRSI Symposium 2011, Kolkata Chapter, Visva Bharati Vishwavidyalaya, Santiniketan

Instrument Handling Experience

- MiniScope X-band EPR Spectrometer with Temperature Controller
- FT-IR Spectrometer, Spectrum RX I, PerkinElmer
- UV-VIS Spectrometer, Lambda 25, PerkinElmer
- Luminescence Spectrometer, LS 55, PerkinElmer
- Electrochemistry and Spectroelectrochemistry System, Epsilon EC, BASi
- Gel Doc DNA Electrophoresis Setup, Gel Doc EZ, BIO-RAD
- HPTLC System, Linomat 5, CAMAG

Teaching Experience

Tenure	Class & Topic	Institution
June, 2007 to March, 2015	B.Sc. Theory & Practical	Ramakrishna Mission Residential College, Narendrapur, Kol-103
June, 2007 to till date	M.Sc. Theory & Practical	Ramakrishna Mission Residential College, Narendrapur, Kol-103
August, 2015 to till date	B.Sc. Theory & Practical	Asutosh College, 92, S. P. Mukherjee Road, Kolkata 26

Computer Skills for Research Work

- Gaussian with GaussView for Theoretical Calculations like DFT and TD-DFT
- Orca for Theoretical Calculations
- GaussSum for Orbital Contribution Analysis
- MS Office
- ChemOffice
- Origin, Matlab, EasySpin
- Mercury
- Photoshop etc.

Computer Skills for Hobby

- HTML5, XML, HTML DOM, Java Script, PHP, ASP, ASP.NET, JQuery, AJAX, CSS3, Flash, VB Script
- C Language, VB6, VB.NET
- MySQL, MSSQL

Hobby

- Software & Web Designing
- Electronics & Robotics
- Drawing (Senior Diploma Holder)

Language Known

English: Professional Proficiency

Hindi: Professional Proficiency

Bengali: Native Language

Date: 24.12.2016



(Manas Kumar Biswas)