**Curriculum Vitae (06/2015)**

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Dr. Sujit Kumar Ghosh

Associate Professor, Chemistry

Indian Institute of Science Education and Research (IISER) Pune,

Dr. Homi Bhabha Road, Pashan, Pune- 411021, India

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E-mail: [sghosh@iiserpune.ac.in](mailto:sghosh@iiserpune.ac.in)/sghoshchem@gmail.com

Webpage: <http://www.iiserpune.ac.in/~sghosh/>

**Academic and Professional Backgrounds**:

2015 – Associate Professor

2009 – 2015 Assistant Professor, IISER Pune, India

2006 - 2009; JSPS and CREST Postdoctoral Research Fellow, Kyoto University, Japan. ( PI : Prof. Susumu Kitagawa)

2006: Ph. D. in Chemistry, 2006, Indian Institute of Technology (IIT) Kanpur, India. (Thesis supervisor: Prof. Parimal K. Bharadwaj)

2001: M. Sc. in Chemistry (Inorganic Chemistry), Banaras Hindu University (BHU), Varanasi, India.

1999: B. Sc. (Honors) in Chemistry with Mathematics/Physics, Burdwan University, W.B., India.

**Major Research Areas**:

# Metal-Organic Frameworks (MOFs)/Porous Coordination Polymers (PCPs)

# Organic Crystalline Materials based on supramolecular and/covalent interactions.

# Structure-property correlation studies of dynamic frameworks.

# Functional studies like chemical separation, gas storage, conductivity, sensing etc.

# Materials for chemical industry, energy and environmental applications

**Awards/Fellowships/Honors:**

2015 - Editorial Board Member, [Scientific Reports](http://www.nature.com/srep/index.html), a journal of NPG.

2015: IUPAC Travel Award: Busan, Korea, IUPAC-2015.

2014: New Talent: Asia-Pacific by Dalton Transactions (RSC).

2013: [INSA Young Scientist Award](http://articles.timesofindia.indiatimes.com/2013-10-15/pune/43065406_1_iiser-insa-medal-young-scientists).

2013: Alkyl Amines-ICT Foundation Day Young Scientist Award.

2012: NASI-Young Scientist Platinum Jubilee Award.

2012-15: Young Associate of the Indian Academy of Sciences.

2011: DAE Research award for Young Scientists.

2009: Newton International Fellowship (UK), (Offer declined).

2007-09: JSPS Post Doctoral Research Fellowship (Japan).

2006 - 07: CREST Post Doctoral Research Fellowship (Japan).

2001 - 06: Junior and Senior Research Fellowship by CSIR, India.

**Courses taught to BS-MS, Int. PhD and Ph.D students:**

Transition Metal Chemistry

Main Group Chemistry

Inorganic Chemistry ( Basic)

Chemistry Lab II (Inorganic Chemistry)

Advanced Inorganic Chemistry Lab

**Research group:**

Six Ph.D students, one Int. Ph.D, one project student and two undergraduate students.

Ph. D Completed: Two

**Publications:**

Citation Data (as of 01/06/2015)

**Sum of the Times Cited: > 2700**

**Average Citations per Article: ~45**

**h-index: 26**

Number of Articles with citations > 200 (01), > 150 (03), > 100(12), > 50(18).

<http://www.researcherid.com/rid/C-4783-2008>

(by Thomson Reuters)

**Selected publications:**

1. Nitro (-NO2) Functionalized Metal-Organic Framework as a Reaction based Fluorescence Turn-On Probe for Rapid and Selective H2S Detection

Sanjog S. Nagarkar, Aamod V. Desai, and Sujit K. Ghosh

*Chem. Eur. J.* 2015, *21*, 0000.

2. Amide Functionalized Dynamic Metal-Organic Framework Exhibiting Visual Colorimetric Anion

Exchange and Selective uptake of Benzene over Cyclohexane

Avishek Karmakar, Aamod V. Desai, Biplab Manna, Biplab Joarder and Sujit K. Ghosh

*Chem. Eur. J.* 2015, *21*, 7071-7076.

3. Selective and Sensitive Aqueous Phase Detection of TNP (2,4,6- trinitro phenol) by an Amine Functionalized Metal-organic Framework

Biplab Joarder, Aamod V. Desai, Partha Samanta, Soumya Mukherjee and Sujit K. Ghosh

*Chem. Eur. J.* 2015, 2*1,* 965 -969.

4. Aqueous Phase Nitric Oxide Detection by an Amine Decorated Metal-Organic Framework

Aamod V. Desai,Partha Samanta,Biplab Mannaand Sujit K. Ghosh

*Chem. Commun. 2015, 51, 6111-6114.*

5. Two-in-one: Inherent Anhydrous and Water-assisted High Proton Conduction in a 3D Metal-organic Framework

Sanjog S. Nagarkar, Sreekuttan M. Unni, Amitosh Sharma, Sreekumar Kurungot, and Sujit K. Ghosh

*Angew. Chem. Int. Ed.* 2014, *53*, 2683-2642.

 6. Selective and Sensitive Aqueous Phase Detection of TNP (2,4,6- trinitro phenol) by an Amine Functionalized Metal-organic Framework

Biplab Joarder, Aamod V. Desai, Partha Samanta, Soumya Mukherjee and Sujit K. Ghosh

Chem. Eur. J. 2015, 21, 965 – 969*.*

7. Guest-Responsive Function of a Dynamic Metal-Organic Framework with  Lewis Acidic Pore Surface

Biplab Joarder, Soumya Mukherjee, Abhijeet K. Chaudhari, Aamod V. Desai, Biplab Manna, and Sujit K. Ghosh

*Chem. Eur. J.* 2014, *20*, 15303–15308*.*

8. Anion-Responsive Tunable Bulk Phase Homochirality and Luminescence of a Cationic Framework

Biplab Manna, Biplab Joarder, Aamod V.Desai, Avishek Karmakar and Sujit K.Ghosh

*Chem. Eur. J.* 2014, *20,* 12399 – 12404.

9. Highly Selective Detection of Nitro-Explosive by a Luminescent Metal-Organic

Framework.

Sanjog S. Nagarkar, Biplab Joarder, Abhijeet K. Chaudhari, Soumya Mukherjee and Sujit K. Ghosh

*Angew. Chem. Int. Ed.* 2013, *52*, 2881-2885.

10. Amino Acid Based Dynamic Metal-Biomolecule Framework

Biplab Joarder, Abhijeet K. Chaudhari, Sanjog S. Nagarkar, Biplab Manna, and Sujit K. Ghosh

*Chem. Eur. J.* 2013, *19*, 11178-11183.

 11. Framework-Flexibility Driven Selective Sorption of *p*-Xylene over Other Isomers by a

Dynamic Metal-Organic Framework

Soumya Mukherjee, Biplab Joarder, Biplab Manna, Aamod V. Desai, Abhijeet K. Chaudhari and Sujit K. Ghosh

*Sci. Rep.* 2014, *4,* doi:10. 1038/srep05761.

*12.* Fluorescent metal-organic framework for highly selective detection of nitroexplosive in aqueous phase

Sanjog S. Nagarkar, Aamod V. Desai, and Sujit K. Ghosh

*Chem. Commun.*2014*, 50, 8915*-8918.

13. Metal-organic framework based highly selective fluorescence *turn-on* probe for hydrogen sulphide

Sanjog S. Nagarkar,Tanmoy Saha, Aamod V. Desai, Pinaki Talukdar and Sujit K. Ghosh

*Sci. Rep.* 2014*, 4,* doi:10.1038/srep07053*.*

14. Dynamic Structural Behavior and Anion-Responsive Tunable Luminescence of a Flexible Cationic Metal-Organic Framework

Biplab Manna, Abhijeet K. Chaudhari, Biplab Joarder, Avishek Karmakar and Sujit K. Ghosh

*Angew. Chem. Int. Ed.* 2013, *52*, 998-1002.

15. Porous Coordination Polymer having Bond Switching Mechanism Showing Reversible Structural and Functional Transformations

Sujit K. Ghosh, Wakako Kaneko, Daisuke Kiriya, Masaaki Ohba, Susumu Kitagawa

*Angew. Chem. Int. Ed.* 2008, *47*, 8843-8847.

(Selected as a Hot Paper by the Editors)

16. A Dynamic, Isocyanurate-Functionalized Porous Coordination Polymer

Sujit K. Ghosh, Sareeya Bureekaew, Susumu Kitagawa

*Angew. Chem. Int. Ed.* 2008, *47*, 3403-3406.

(Selected as a Hot Paper by the Editors)

17. Reversible Topochemical Transformation of a Soft Crystal of a Coordination Polymer

Sujit K. Ghosh, Jie-Peng Zhang, Susumu Kitagawa

*Angew. Chem. Int. Ed.* 2007, *46*, 7965-7968.

18. A Novel Dodecameric WaterCluster Built Around a Cyclic Quasi-Planar Hexameric Core in an Organic Supramolecular Complex of Cryptand

Sujit K. Ghosh and Parimal K. Bharadwaj

*Angew. Chem. Int. Ed.* 2004, *43*, 3577-3580.

 (Book Chapters and Reviews):

1. Book Chapter: Cadmium Based Catalysts in *Sustainable Catalysis* (ed M. North)

Soumya Mukherjee and Sujit K. Ghosh

Royal Society of Chemistry, 2015.

2. Focus Review: Stimulus Responsive Metal-Organic Frameworks

Sanjog S. Nagarkar, Aamod V. Desai, and Sujit K. Ghosh

*Chem. Asian J. 2014,*9, 2358-2376

3. Book Chapter: Surface Pore Engineering of Porous Coordination Polymers in *Metal-Organic*

*Frameworks: Design and Application* (ed L. R. MacGillivray)

Sujit K. Ghosh and Susumu Kitagawa

John Wiley & Sons, 2010. doi: 10.1002/9780470606858.ch5.

**Full list of publications:**

**(*Work from IISER Pune*)**

**2015**

71. Selective Detection of 2,4,6-Trinitrophenol (TNP) by a π-Stacked Organic Crystalline Solid in Water

[Soumya Mukherjee](http://pubs.acs.org/action/doSearch?ContribStored=Mukherjee%2C+S) , [Aamod V. Desai](http://pubs.acs.org/action/doSearch?ContribStored=Desai%2C+A+V) , [Arif I. Inamdar](http://pubs.acs.org/action/doSearch?ContribStored=Inamdar%2C+A+I) , [Biplab Manna](http://pubs.acs.org/action/doSearch?ContribStored=Manna%2C+B) , and [Sujit K. Ghosh](http://pubs.acs.org/action/doSearch?ContribStored=Ghosh%2C+S+K).

*Cryst. Growth Des.*, 2014, *15*, 0000 DOI: 10.1021/acs.cgd.5b00578

70. Nitro (-NO2) Functionalized Metal-Organic Framework as a Reaction based Fluorescence Turn-On Probe for Rapid and Selective H2S Detection

 Sanjog S. Nagarkar, Aamod V. Desai, and Sujit K. Ghosh

*Chem. Eur. J*. 2015 (Just accepted)

69. Coherent Fusion of Water Array and Protonated Amine in a Metal-Sulphate Based Coordination Polymer for Proton Conduction

73. Biplab Manna, Bihag Anothumakkool, Aamod V. Desai, Partha Samanta, Sreekumar Kurungot, Sujit K. Ghosh

*Inorg. Chem.* 2015 (Just accepted)

68. Book Chapter: Cadmium Based Catalysts in *Sustainable Catalysis* (editor: Prof. Michael North)

Soumya Mukherjee and Sujit K. Ghosh

Royal Society of Chemistry, 2015 (Just Accepted)

67. Amide Functionalized Dynamic Metal-Organic Framework Exhibiting Visual Colorimetric Anion Exchange and Selective uptake of Benzene over Cyclohexane

 Avishek Karmakar, Aamod V. Desai, Biplab Manna, Biplab Joarder and Sujit K. Ghosh

*Chem. Eur. J*. 2015, *21*, *DOI: 10.1002/chem.201406233*

66. Exploiting Framework Flexibility of a Metal−Organic Framework for Selective Adsorption of Styrene over Ethylbenzene

Soumya Mukherjee, Biplab Joarder, Aamod V. Desai, Biplab Manna, Rajamani Krishna, and Sujit K. Ghosh

*Inorg. Chem.* 2015, *54*, 4403-4408

65. Aqueous Phase Nitric Oxide Detection by an Amine Decorated Metal-Organic Framework

 Aamod V. Desai,*Partha Samanta, Biplab Manna and Sujit K. Ghosh*

*Chem. Commun.*2015*, 51,*6111-6114

64. Aqueous phase selective 2,4,6-trinitrophenol detection via fluorescent metal-organic framework with pendant recognition site

Sanjog S. Nagarkar,Aamod V. Desai, Partha Samanta, and Sujit K.

Ghosh

*Dalton Trans.* 2015, *44, DOI: 10.1039/C5DT00397K.* [Web link](http://pubs.rsc.org/en/Content/ArticleLanding/2015/DT/c5dt00397k#!divAbstract)

(Special issue: **New Talent: Asia-Pacific** )

63. Single-Crystal-to-Single-Crystal Transformation of an Anion Exchangeable Dynamic Metal-Organic Framework

 Biplab Manna, Aamod V.Desai, Naveen Kumar, Avishek Karmakar and Sujit K.Ghosh

*CrystEngComm* 2015*, 17, DOI: 10.1039/C5CE00139K*

62. Recent Progress in the Realm of Homonuclear Ln6 Single Molecule Magnets: Structural Overview and Synthetic Approaches *(Review Article)*

Soumya Mukherjee and Sujit K. Ghosh

*Proc. Indian Natn. Sci. Acad.* 2015, *81*, 357-379*.* (Invited Article)

61. Reversible structural transformations in a Co(II) based 2D dynamic metal-organic framework showing selective solvent uptake

Sanjog S. Nagarkar and Sujit K. Ghosh

*J. Chem. Sci.* 2015, *DOI: 10.1007/s12039-015-0820-3* (Special issue).

60. Selective Anion Exchange and Tunable Luminescent Behaviours of MOF based Supramolecular Isomers

Biplab Manna, Shweta Singh, Avishek Karmakar, Aamod V. Desai and Sujit K. Ghosh

*Inorg. Chem.* 2015, *54*, 110-116

59. Selective and Sensitive Aqueous Phase Detection of TNP (2,4,6- trinitro phenol) by an Amine Functionalized Metal-organic Framework

Biplab Joarder, Aamod V. Desai, Partha Samanta, Soumya Mukherjee and Sujit K. Ghosh

*Chem. Eur. J.* 2015, *21*, 965 -969

**2014**

58. Two-in-one: Inherent Anhydrous and Water-assisted High Proton Conduction in a 3D Metal-Organic Framework

Nagarkar, S. S.; Unni, S. M.; Sharma, A.; Kurungot, S.; Ghosh, S. K.

*Angew. Chem. Int. Ed.* 2014, *53*, 2638-2642.

57. Stimulus-Responsive Metal-Organic Frameworks

Nagarkar, S. S.; Desai, A. V.; Ghosh, S. K.

*Chem. Asian J.* 2014, *9*, 2358–2376. (Focus Review)

56. Metal-Organic Framework Based Highly Selective Fluorescence *Turn-on* Probe for Hydrogen Sulphide

Nagarkar, S. S.;Saha, T.;Desai, A. V.; Talukdar, P.; Ghosh. S. K.

*Sci. Rep. 2014, 4, doi:10.1038/srep07053.*

55. Guest-Responsive Function of a Dynamic Metal-Organic Framework with π-Lewis Acidic Pore Surface

Joarder, B.; Mukherjee, S.; Chaudhari, A. K.; Desai, A. V.; Manna, B.; Ghosh, S. K.

*Chem. Eur. J.* 2014, *20*, 15303 – 15308.

54. Framework-Flexibility Driven Selective Sorption of *p*-Xylene over Other Isomers by a Dynamic Metal-Organic Framework

Mukherjee, S.; Joarder, B.; Manna, B.; Desai, A. V.; Chaudhari, A. K.; Ghosh, S. K.

*Sci. Rep.* 2014, DOI: 10.1038/srep05761.

53. Anion-Responsive Tunable Bulk Phase Homochirality and Luminescence of a Cationic Framework

Manna, B.; Joarder, B.; Desai, A. V.; Karmakar, A.; Ghosh, S. K.

*Chem. Eur. J*. 2014, *20*, 12399–12404.

52. Structures and Magnetic Properties of Two Analogous Dy6 Wheels with Electron-Donation and -Withdrawal Effects

Joarder, B.; Mukherjee, S.; Xue, S.; Tang, J.; Ghosh S. K.

*Inorg. Chem.* 2014, *53*, 7554–7560.

51. Fluorescent Metal-Organic Framework for Highly Selective Detection of Nitro Explosive in Aqueous Phase

Nagarkar, S. S.; Desai, A. V.; Ghosh, S. K.

*Chem. Commun.* 2014, *50*, 8915-8918.

50. Dynamic Metal-Organic Framework with Anion-Triggered Luminescence Modulation Behavior

Karmakar, A.; Manna, B.; Desai, A. V.; Joarder, B.; Ghosh, S. K.

Inorg. Chem. 2014, 53, 12225−12227

49. Capsule Voided Nanospace Confinement in a π-Stacked Supramolecular Organic Solid

Chaudhari, A. K.; Sharma, A.; Mukherjee, S.; Joarder, B.; Ghosh, S. K.

*CrystEngComm* 2014, *16*, 4691-4695. (Special issue)

48. Guest Driven Structural Transformation Studies of a Luminescent Metal-Organic Framework

Manna, B.; Singh, S.; Ghosh, S. K.

J. Chem. Sci. 126, 2014, 1417–1422

47. Slow Magnetic Relaxation in an Asymmetrically Coupled Heptanuclear Dysprosium(III)-Nickel(II) Architecture

Mukherjee, S.; Joarder, B.; Xue, S.; Tang, J.; Ghosh, S. K.

*Proc. Natl. Acad. Sci., India*, *Sect. A Phys. Sci.* 2014, *84*, 151-156.

46. Gas Adsorption, Magnetism, and Single-Crystal to Single-Crystal Transformation Studies of a Three-Dimensional Mn(II) Porous Coordination Polymer

Agarwal, A.; Mukherjee, S.; Sañudo, E. C.; Ghosh, S. K.; Bharadwaj P. K.

*Cryst. Growth Des.*, 2014, *14*, 5585–5592

**2013**

45. Structural Dynamism and Controlled Chemical Blocking/Unblocking of Active Coordination Space of a Soft Porous Crystal

Chaudhari, A. K.; Nagarkar, S. S.; Joarder, B.; Mukherjee, S.; Ghosh, S. K.

*Inorg. Chem.* 2013, *52*, 12784-12789.

44. Highly Selective Detection of Nitro-Explosive by a Luminescent Metal-Organic Framework.

Nagarkar, S. S.; Joarder, B.; Chaudhari, A. K.; Mukherjee, S.; Ghosh, S. K.

*Angew. Chem. Int. Ed.* 2013, *52*, 2881-2885.

43.  Amino Acid Based Dynamic Metal-Biomolecule Framework

Joarder, B.; Chaudhari, A. K.; Nagarkar, S. S.; Manna, B.; Ghosh, S. K.

*Chem. Eur. J.*2013, *19*, 11178-1183.

42. A Continuous π‑Stacked Starfish Array of Two-Dimensional Luminescent MOF for Detection of Nitro Explosives

Chaudhari, A. K.; Nagarkar, S. S.; Joarder, B.; Ghosh, S. K.

*Cryst. Growth Des*. 2013, *13*, 3716-3721.

41. Bi-porous Metal-Organic Framework With Hydrophilic and Hydrophobic Channels: Selective Gas Sorption and Reversible Iodine Uptake Studies

Chaudhari, A. K.; Mukherjee, S.; Nagarkar, S. S.; Joarder, B.; Ghosh, S. K.

*CrystEngComm*, 2013, *14*, 9465-9471.

40. An Asymmetrically Connected Hexanuclear DyIII6 Cluster Exhibiting Slow Magnetic Relaxation

 Mukherjee, S.; Chaudhari, A. K.; Xue, S.; Tang, J.; Ghosh, S. K.

*Inorganic Chemistry Communications*2013, *35*, 144-148.

39. Dynamic Structural Behavior and Anion-Responsive Tunable Luminescence of a Flexible Cationic Metal-Organic Framework

Manna, B.; Chaudhari, A. K.; Joarder, B.; Karmakar, A.; Ghosh, S. K.

*Angew. Chem. Int. Ed.* 2013, *52*, 998-1002. ([Highlighted: Advances in Engineering](http://advanceseng.com/chemical-engineering/dynamic-structural-behavior-and-anion-responsive-tunable-luminescence-of-a-flexible-cationic-metal-organic-framework/))

**2012**

38. Nitrate Bridged Pseudo Double Propeller Type Lanthanide (III)-Copper (II) Heterometallic Clusters: Syntheses, Structures, and Magnetic Properties

Chaudhari, A. K.; Joarder, B.; Riviere, E.; Rogez, G.; Ghosh, S. K.

*Inorg. Chem.* 2012, *51*, 9159–9161. ([Highlighted in Cheminform](http://onlinelibrary.wiley.com/doi/10.1002/chin.201246025/abstract))

37. A Bistable Dynamic Coordination Polymer Showing Reversible Structural and Functional Transformations

Nagarkar, S. S.; Das, R.; Poddar, P.; Ghosh, S. K.

*Inorg. Chem.*2012, *51*, 8317-8321.

36. A Carboxylate Based Dinuclear Dysprosium (III) Cluster Exhibiting Slow Magnetic Relaxation Behavior

Joarder, B.; Chaudhari, A. K.; Rogez, G.; Ghosh, S. K.

*Dalton Trans.*2012, *41*, 7695-7699.

(One of the Top ten most accessed Dalton Trans. articles in May 2012).

35. Role of Temperature on Framework Dimensionality: Supramolecular Isomers of Zn3(RCOO)8 Based Metal Organic Frameworks

Nagarkar, S. S.; Chaudhari, A. K.; Ghosh, S. K.

*Cryst. Growth Des.*2012, *12*, 572-576.

34. A Homochiral Luminescent 2D Porous Coordination Polymer with Collagen-Type Triple Helices Showing Selective Guest Inclusion

Joarder, B.; Chaudhari, A. K.; Ghosh, S. K.

*Inorg. Chem.*2012, *51*, 4644-4649.

33. Selective CO2 Adsorption in a Robust and Water-Stable Porous Coordination Polymer with New Network Topology

Nagarkar, S. S.; Chaudhari, A. K.; Ghosh, S. K.

*Inorg. Chem.*2012, *51*, 572-576.

32. Surface Pore Engineering of Porous Coordination Polymers in Metal-Organic Frameworks*: Design and Application* (Eds.: MacGillivray L. R.)

Ghosh, S. K.; Kitagawa, S.

*Wiley*, 2010, 165-192. (Book chapter).

**(*Postdoctoral work*)**

31. New Heterometallic Carboxylate Frameworks: Synthesis, Structure, Robustness,

Flexibility, and Porosity

Jie-Peng Zhang, Sujit K. Ghosh, Jian-Bin Lin, Susumu Kitagawa

***Inorg. Chem.* 2009, 48, 7970-7976.**

**30.** Control of Structure Dimensionality and Functional Studies of Flexible Cu(II)

Coordination Polymers

Sujit K. Ghosh, Ramachandan Azhakar, and Susumu Kitagawa

*Chemistry-An Asian Journal*, 2009, 4, 870-875. (Special issue on Prof. C.N.R. Rao’s 75th

birthday celebration).

29. Solvent as structure directing agent for the synthesis of novel coordination

frameworks using a tripodal flexible ligand

Sujit K. Ghosh, Susumu Kitagawa

*CyrstEngCommun,* 2008, *10*, 1739-1742.

28. Porous Coordination Polymer having Bond Switching Mechanism Showing

Reversible Structural and Functional Transformations

Sujit K. Ghosh, Wakako Kaneko, Daisuke Kiriya, Masaaki Ohba, Susumu Kitagawa

*Angew. Chem. Int. Ed.* 2008, *47*, 8843-8847.

(Selected as a Hot Paper by the Editors)

27. A Dynamic, Isocyanurate-Functionalized Porous Coordination Polymer

Sujit K. Ghosh, Sareeya Bureekaew, Susumu Kitagawa

*Angew. Chem. Int. Ed.* 2008, *47*, 3403-3406.

(Selected as a Hot Paper by the Editors)

26. Reversible Topochemical Transformation of a Soft Crystal of a Coordination Polymer

Sujit K. Ghosh, Jie –Peng Zhang, Susumu Kitagawa

*Angew. Chem. Int. Ed.* 2007, *46*, 7965-7968.

**(*Ph.D work from IIT Kanpur*)**

25. Binding of various anions in laterally non-symmetric aza-oxa cryptands through H-

bonds: characterization of water clusters of different nuclearity

Madhab C. Das, Sujit K. Ghosh, Susan Sen and Parimal K. Bharadwaj

*CrystEngComm*, 2010, *12*, 2967-2974.

24. Diversity of binding of sulfate and nitrate anions with laterally asymmetric aza Cryptands

Madhab C. Das, Sujit K. Ghosh and Parimal K. Bharadwaj

*CrystEngComm*, 2010, 12, 413-419.

23.Halide Binding in Laterally Non-symmetric Aza-Oxa CryptandsThrough

N/O/C─H∙∙∙halide Interactions with Characterization of Small Water Clusters

M. C. Das, Sujit. K. Ghosh, and P. K. Bharadwaj

*Dalton. Trans.* 2009, 6496-6505.

22. Coordination polymers with pyridine-2,4,6-tricarboxylic acid and

alkalineearth/lanthanides/transition metals: Synthesis and X-ray structures

M. C. Das, Sujit. K. Ghosh, E. C. Sanudo and P. K. Bharadwaj

*Dalton. Trans.*  2009, 1644-1658.

21. Water dimers connect [Cu(cda)(py)3] (cda = pyridine-4-hydroxy-2, 6- dicarboxylate,

py = pyridine) complex units to left- and right-handed helices that form a tubular

coordination polymer through supramolecular bonding

Sujit K. Ghosh, Subhadip Neogi, E. Carolina Sañudo and Parimal K. Bharadwaj

*Inorg. Chem. Acta* 2008, *361*, 56-62.

20. Laterally Non-symmetric Aza Cryptand Molecules Stitched by Water

Sujit K. Ghosh and Parimal K. Bharadwaj

*Struct. Chem.* 2007, *18*, 145-148 (Special Issue).

19. Supramolecularly assembled pentameric and octameric water clusters stabilized by

a mixed complex of Ni(II)

Sujit K. Ghosh and Parimal K. Bharadwaj

*Inorg. Chem. Acta* 2006, *359*, 1685-1689.

18. Parallel pentameric cycles of water with staggered conformation stabilized by two

infinite phosphate chains in the cavity formed through supramolecular assembly of a

cryptand

Sujit K. Ghosh and Parimal K. Bharadwaj

*Eur. J. Inorg. Chem.* 2006, 1341-1344.

17. Self-assembly of Alternating Left- and Right-Handed Infinite Cd(II) Helicates into a

2D Open Framework Structure

Sujit K. Ghosh and Parimal K. Bharadwaj

*J. Mol. Struc.* 2006, *796*, 119-122 (Special Issue).

16. Coordination Polymers Built from Cu(II) and Pyrazine-2,3,5,6-Tetracarboxylate or

Pyridine-2,4,6-Tricarboxylate: Structural and Magnetic Studies

Sujit K. Ghosh, M. Salah El Fallah, Joan Ribas and Parimal K. Bharadwaj

*Inorg. Chem. Acta* 2006, *359*, 468-474.

15. Octameric Water Clusters of Staircase Structure Present in a Metal-Organic

Framework Built from Helical Lanthanide Coordination Polymers

Sujit K. Ghosh and Parimal K. Bharadwaj

*Eur. J. Inorg. Chem.* 2006, 4886-4889.

14. Infinite Chains of Quasi-Planar Hexameric Water Clusters stabilized in a Metal

Organic Framework Built from Co(II) and Pyrazine-2,3,5,6-tetracarboxylic Acid

Sujit K. Ghosh and Parimal K. Bharadwaj

*Eur. J. Inorg. Chem.* 2005, 4880-4885.

13. A Metal-Organic Framework H-Bonded Like a Polycatenane: Coexistence of cyclic

Water Trimer and Nonamer

Sujit K. Ghosh and Parimal K. Bharadwaj

*Inorg. Chem.* 2005, *44*, 5553-5555.

12. Mn(II) Staircase Structures Stitched by Water Clusters to a 3D Metal-Organic Open

Framework: X-ray Structural and Magnetic Studies

Sujit K. Ghosh, Joan Ribas, M. Salah El Fallah and Parimal K. Bharadwaj

*Inorg. Chem.* 2005, *44*, 3856-3862.

11. Coordination Polymers of La(III) as Bunched Infinite Nanotubes and Their

Conversion into an Open-Framework Structure

Sujit K. Ghosh and Parimal K. Bharadwaj

*Inorg. Chem.* 2005, *44*, 3156-3161.

10. Characterization of 3D Metal-Organic Frameworks Formed Through Hydrogen

Bonding Interactions of 2D Networks with Rectangular Voids by CoII− and NiII−(pdc)

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1. Coexistence of Water Dimer and Hexamer Clusters in 3D Metal-Organic Framework

Structures of Ce(III) and Pr(III) with Pyridine-2,6-dicarboxylic Acid

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**Presentations at Conference/Symposium/Meeting:**

26. Pre-Conference of 4th International Conference on Metal-Organic Frameworks and Open Framework Compounds (MOF2014), 27th September and 1st October in Osaka and Kobe, Japan.

25. FICS-2014 (Frontiers in Chemical Sciences), IIT Guwahati, India, during December 4-6, 2014.

24. **"**7thBiennial International Conference on Materials for Advanced Technologies ICMAT 2013**,** during 30th June to 5th July, 2013, in Singapore

23. Brainstorming Session on Chemical Coating for Detection of Explosives, Sponsored byOffice of Principal Scientific Advisor, New Delhi, May 21st , 2014, Department of Electrical Engineering, IIT Bombay.

22. Workshop on "Supramolecular Chemistry: Concepts and Perspectives”, by Indian Academy of Sciences, Bangalore 4-5th April, 2014Department of Chemistry, MMV, BHU, Varanasi.

21. 79th Annual meeting of the Indian Academy of Sciences, at Chandigarh, IISER-Mohali, 8-10 November, 2013.

20. “Modern Trends in Inorganic Chemistry (MTIC-XV)” IIT Roorkee 13th -16th December, 2013.

19. Alkyl Amines-ICT Foundation Day Young Scientist Award lecture, ICT Mumbai, 21st December, 2013.

18. “Young Scientist Research Awardees Meet” (YSRAM) between December 26-27, 2012 at Bhabha Atomic Research Centre (BARC) Mumbai.

17. Symposium on Structure and Dynamics Organized as part of the

UK-India Education and Research Initiative (UKIERI) between

December 10-12, 2012 at IISER Pune.

15. "40 International Conference on Coordination Chemistry” (ICCC40), between September 9-13, 2012, at Valencia, Spain.

16. “**Advances in Pharmaceutical Research & Chemistry”** between

22th and 24th March, 2012 at NITTTR, Bhopal.

14. “3rd Asian Conference on Coordination Chemistry” between 17th – 20th October, 2011 at New Delhi, India.

12. “Past, Present and Future of Supramolecular Chemistry” (PPFSC-2011)” between 22th and 24th December, 2011. Agra, India.

11. 3rd Inter IISER meeting February 20-21, 2011, IISER Mohali, India.

10. IISER Pune/Göttingen Cooperation meeting 9th ‐12th December 2010, Göttingen, Germany.

9. “Modern Trends in Inorganic Chemistry” (MTIC-XIII) from 7th – 10th December, 2009 at Indian Institute of Science, Bangalore.

8. The Sixth International Conference on Inorganic Materials, 28-30 September, 2008, Dresden, Germany (Oral presentation).

7. The Third International Symposium on Chemistry of Coordination Space (ISCCS) - 2007, December 9-12, 2007, Awaji Yumebutai International Conference Center, Awaji, Hyogo, Japan.

1. 1st International Workshop on Protonics and Nano-Interface of Coordination Chemistry, 24th February, 2007, Kyoto, Japan. (Attended)
2. 56th Japan Society of Coordination Chemistry Symposium, 17-19 September, 2006, Hiroshima University, Hiroshima, Japan.

4. The Second International Symposium on Chemistry of Coordination Space (ISCCS) - 2006, 15-16 December, 2006, Fukuoka, Japan.

1. The Sixth National Symposium of the Chemical Research Society of India (CRSI). Feb. 6-8, 2004, Department of Chemistry, IIT Kanpur, India.
2. 3rd Singapore-India Collaborative and Co-operative Chemistry Symposium.December 16-17, 2004, Department of Chemistry, IIT Kanpur, India (Attended)
3. Modern Trends in Inorganic Chemistry (MTIC)-2003, 15-17 December, 2003 Department of Chemistry, IIT Bombay, Mumbai, India.