

Curriculum Vitae (01/2015)

Dr. Sujit Kumar Ghosh

Assistant Professor, Chemistry
Indian Institute of Science Education and Research (IISER)
Pune,
Dr. Homi Bhabha Road, Pashan, Pune- 411021, India
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Webpage: <http://www.iiserpune.ac.in/~sghosh/>



Personal Details:

Date of birth : January 4th. 1978
Sex : Male
Nationality : Indian

Academic and Professional Backgrounds:

June 2009 – Assistant Professor, IISER Pune, India

April 2007 – March 2009; JSPS and CREST Postdoctoral Research Fellow, Kyoto University, Japan. (Host: Prof. Susumu Kitagawa)

Research topic: Structural and functional studies of dynamic coordination polymers.

Ph. D. in Chemistry, 2006, Indian Institute of Technology (IIT) Kanpur, India.

Thesis supervisor: Prof. Parimal K. Bharadwaj

Thesis title: *Metal-Organic Frameworks with Aromatic Polycarboxylates and Characterization of Water Clusters of Different Nuclearity in Organic and Inorganic Crystal Hydrates*

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

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

Major Research Areas:

- # Metal-organic frameworks (MOFs)/Porous coordination polymers (PCPs)
- # Structure-property correlation studies of dynamic frameworks.
- # Functional studies like chemical separation, gas storage, catalysis, conductivity, sensor.
- # Materials for chemical industry, energy and environmental applications

Awards/Fellowships/Honors:

- INSA Young Scientist Award 2013
- NASI Young Scientist Platinum Jubilee Award 2012
- Young Associate of the Indian Academy of Sciences, 2012.
- DAE Research award for Young Scientists, 2011.
- Fast Track Scheme for Young Scientists by DST, 2011.
- Newton International Fellowship (UK), 2009-2011 (Offer declined).
- JSPS Post Doctoral Research Fellowship (Japan), 2007-2009.
- CREST Post Doctoral Research Fellowship (Japan) 2006-2007.
- Travel Grant Award (2005) by CSIR to attend Int. Conference.
- Junior and Senior Research Fellowship by CSIR, India 2001-06.

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

Current research group:

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

Publications:

Citation Data

(as of 01/02/2015)

Sum of the Times Cited: 2552
Average Citations per Article: ~46
h-index: 25

Number of Articles with citations > 200 (01), > 150 (03), > 100(11), > 50(17).

<http://www.researcherid.com/rid/C-4783-2008>
(by Thomson Reuters)

Selected publications:

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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)

12. 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)

13. 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.

14. A Novel Dodecameric Water Cluster 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):

15. Stimulus Responsive Metal-Organic Frameworks

Sanjog S. Nagarkar, Aamod V. Desai, and Sujit K. Ghosh
Chem. Asian J. 2014, 9, 2358–2376.

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

Sujit K. Ghosh, Susumu Kitagawa
Wiley, 2010, (Book chapter).

Full list of publications:

(Work from IISER Pune)

2014-15

63. 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.

62. Stimulus-Responsive Metal-Organic Frameworks

Nagarkar, S. S.; Desai, A. V.; Ghosh, S. K.
Chem. Asian J. 2014, *9*, 2358–2376. (Focus Review)

61. 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.

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

Joarder, B.; Desai, A. V.; Samanta, P.; Mukherjee, S.; Ghosh, S. K.
Chem. Eur. J. 2014, DOI: 10.1002/chem.201405167.

59. 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.

58. 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.

57. 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.

56. 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.

55. 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.

54. 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

53. Selective Anion Exchange and Tunable Luminescent Behaviors of MOF based Supramolecular Isomers

Manna, B.; Singh, S.; Karmakar, A.; Desai, A. V.; Ghosh, S. K.
Inorg. Chem. 2015, 54, 110–116

52. 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)

51. 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

50. 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.

48. Reversible Structural Transformations in a Co(II) Based 2D Dynamic Metal-Organic Framework Showing Selective Solvent Uptake

Nagarkar, S. S.; Ghosh, S. K.
J. Chem. Sci. 2014, (Just accepted). (Special issue)

47. Recent Progress in the Realm of Homonuclear Ln₆ Single Molecule Magnets: Structural Overview and Synthetic Approaches

Mukherjee, S.; Ghosh, S. K.
Proceedings of the Indian National Science Academy 2014, (Just accepted). (Invited article)

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*, 11178-11183.

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 Dy^{III}₆ 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)

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)

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 Cryptands Through 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 alkaline earth/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 Co^{II}- and Ni^{II}-(pdc) [pdc= Pyridine-2,6-dicarboxylate] and 4,4'-Bipyridine or 1,2-Di(pyridyl)ethylene.
Sujit K. Ghosh, Joan Ribas and Parimal K. Bharadwaj,
Crystal Growth & Design 2005, 5, 623-629.
9. Self-assembly of a Co(II) Dimer through H-bonding of water molecules to a 3D open-framework structure
Sujit K. Ghosh and Parimal K. Bharadwaj
Journal of Chemical Sciences 2005, 117, 23-26.
8. Reactivity of Pyridine-2,4,6-tricarboxylic Acid Toward Zn(II) Salts Under Different Reaction Conditions
Sujit K. Ghosh, G. Savitha and Parimal K. Bharadwaj
Inorg. Chem. 2004, 43, 5495-5497.
7. Metal-Organic Framework Structures of Cu(II) with Pyridine-2,6-dicarboxylate and Different Spacers: Identification of a Metal Bound Acyclic Water Tetramer

- Sujit K. Ghosh, J. Ribas and Parimal K. Bharadwaj
CyrstEngCommun 2004, 6, 250-256.
6. Studies of Amphiphiles with Cryptand Headgroup at the Air-Water Interface
- Punam Tripathi, Sujit K. Ghosh, Parimal K. Bharadwaj and Ram Adhar Singh
Proc. Indian Natn. Sci. Acad. 2004, A, 70, 383-389 (Special Issue).
5. Puckered Boat-Shaped Hexameric Water Clusters Stabilize a 3D Metal-Organic Framework Structure Built from Cu(II) and Benzene-1,2,4,5-tetracarboxylic Acid
- Sujit K. Ghosh and Parimal K. Bharadwaj
Inorg. Chem. 2004, 43, 5180-5182.
4. Structure of a Discrete Hexadecameric Water Cluster in a Metal-Organic Framework Structure
- Sujit K. Ghosh and Parimal K. Bharadwaj
Inorg. Chem. 2004, 43, 4887-4889.
3. Self-assembly of Lanthanide Helicate Coordination Polymers into 3D Metal-Organic Framework Structures
- Sujit K. Ghosh and Parimal K. Bharadwaj
Inorg. Chem. 2004, 43, 2293-2298.
2. A Novel Dodecameric Water Cluster 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.
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
- Sujit K. Ghosh and Parimal K. Bharadwaj
Inorg. Chem. 2003, 42, 8250-8254.

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. "7th Biennial 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 by Office 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, 2014 Department 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.
6. 1st International Workshop on Protonics and Nano-Interface of Coordination Chemistry, 24th February, 2007, Kyoto, Japan. (Attended)
5. 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.
3. 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)
1. Modern Trends in Inorganic Chemistry (MTIC)-2003, 15-17 December, 2003 Department of Chemistry, IIT Bombay, Mumbai, India.