

CURRICULUM VITAE

Name: Kumar Biradha
Date of Birth: 15 June, 1968, Relangi, Andhra Pradesh
Nationality: Indian
Address: Department of Chemistry
 Indian Institute of Technology
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 India
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Present Status: Professor, Department of Chemistry
 Indian Institute of Technology
 Kharagpur-721302
 India

Research Area: Crystal Engineering and Supramolecular Chemistry

Employment:

1997, Jan-1998, Aug Post Doctoral Fellow (Prof. M.J. Zaworotko)
 Saint Mary's University, Halifax,
 Nova Scotia, Canada

1997, Jul-Dec Inorganic Lab Instructor
 Saint Mary's University, Halifax
 Nova Scotia, Canada

1998, Oct- 2000, Oct JSPS Post Doctoral Fellow (Prof. Makoto Fujita)
 Nagoya University, Nagoya, Japan

2000, Oct- 2001, Oct Assistant Professor, Nagoya University
 Japan

2001, Nov- 2002, Apr Researcher, Nagoya University, Japan

2002, Jun- 2008, Dec Assistant Professor, Indian Institute of Technology
 Kharagpur

2008, Dec-2014, March Associate Professor, IIT, Kharagpur

Associate Editor 2012 onwards, *Crystal Growth & Design*, ACS

Visiting Professor: 19 May-18 Jul, 2008, National University of Singapore, Singapore

Visiting Researcher: 23 May – 9th June, 2012, University of South Florida, USA

Education:

Ph.D.: Chemistry (Structural), University of Hyderabad, India, **Dec-1996**,
 Thesis: *Some Studies of Hydrogen Bonding in Organic and Organometallic Crystals: Applications to Crystal Engineering.*

Supervisor: Prof. Gautam R. Desiraju

M.Sc : Chemistry, University of Hyderabad, Hyderabad-500046, India,
1989-1991, Chemistry.

Dissertation: *Studies on the Reduction of Carboxylic Acids to Alcohols Using Catechol/NaBH₄ System*

Supervisor: Prof. M. Periasamy

B.Sc : Andhra University, D.N.R. College, Bimavaram, India, **1986-1989.**
 Main: *Chemistry*, Ancillaries: *Mathematics and Physics*

Fellowships, Awards & Honors:

2012 onwards: Associate Editor, Crystal Growth & Design, ACS

2011 onwards, Editorial Advisory board member of *New Journal of Chemistry*, RSC

2011: Co-editor of *Acta Cryst., Sect. E.* (IUCr)

2010: Editor: R. Sc. Book series on crystal engineering

2010: Board of Editors of *Crystal Growth & Design Network*

2010: Fellow of Royal Society of Chemistry (FRSC)

2008-2011 Editorial board member of *New Journal of Chemistry*, RSC

2006 SCOPUS Young scientist award in Chemistry by Elsevier

1998-2000: Japan Society for Promotion of Science (JSPS) Post Doctoral Award

1991-1996: UGC Fellowship

1989-1991: Merit and Mean Scholarship, University of Hyderabad

Guest Editor of a Special Issue on “*Coordination Polymers: Structure and Function*” in *New Journal of Chemistry*, **2010**.

2017-2020: Member of Research Council: CSIR-North East Institute of Science and Technology, Jorhat, India

Research Projects:

Grant Agency	Title of the project	Duration	Amount in lakh (Rs/-)
DST(SERB)	Metal-Organic Frameworks and CPs of Organic Polymers: Exploration of Gas Sorption, Energy Storage, Photopolymerization and Other Structure Relevant Functional Properties	2018-2021	19,80,000/-
DST(SERB)	Design and Synthesis of Coordination Polymers and Coordination Induced Gelating Materials: Exploration of Gas Sorption and other Functional Properties	2013-2016	54,00,000/-
DST	Design of Organic-Inorganic Hybrid Materials and Exploration of their Gas Adsorption and Desorption Properties	2009-2012	49,05,600/-
CSIR	Crystal Engineering Studies on Derivatives Containing 2° Amide and Pyridine Functional Groups: Design and Applications	2007-2010	11,46,000/-
DST-SERC	Design of Organic-Inorganic Hybrid Materials with Porous and/or Chiral Properties	2004-2007	18,72,690/-
ISIRD, SRIC, IIT (Kharagpur)	Design of functional metal-organic framework materials	2002-2003	50,000/-

Number of Ph. D. students guided: Completed: **16** On going: **5**

Number of M. Sc. students guided: Completed: **24** On going: **3**

At the undergraduate level: Prep Theory & Lab, Organic Chemistry in CY11001 and Lab (CY19001); Organic Chemistry-I (CY23003) and Lab, Organic Chemistry-II (CY20002), Biochemistry-II (CY33004); Organic Chemistry III (CY31003)

At the postgraduate level: Supramolecular Chemistry (CY61038); Principle of Organic Synthesis Laboratory; CY71002 Structure Analysis by Spectroscopic & Crystallographic Studies

Conferences Organized:

1. Crystal Engineering and Noncovalent Interactions: Contemporary Themes and Futuristic Developments, Crystal Engineering: Molecules to Supramolecules at COORG, Orange County, 22-25, Feb, **2009**.

Conveners: K. Biradha, P. Dastidar and J. N. Moorthy

2. Diamond Jubilee Symposium on Recent Trends in Chemistry (DJSRTC), October 21-23, **2011**, Department of Chemistry, Indian Institute of Technology Kharagpur. Conveners: K. Biradha and T. Pal

3. Chemistry: Synthesis, Structure & Dynamics, A conference on Crystal Engineering, December, 11-14, **2012**, COORG, Orange County, Karnataka.

4. ACS On Campus, November 25, **2013**, IIT, Kharagpur

5. University of Colombo, Sri Lanka (05-09-**2016** to 07-09-**2016**),: Organizing and participating in a conference "Ist South East Asia Conference on Crystal Engineering (SEACCE)"

6. 24th Congress and General Assembly of the International Union of Crystallography 21-28 August **2017**, HICC, Hyderabad, India. (Member of LOC).

7. 2nd International Conference on "Crystal Engineering: From Molecule to Crystal" (CEPMC2020, **Virtual**), Convener 19-20, June **2020**, IIT Kharagpur.

Invited talks and Chairs from IIT-KGP

8. Delivered a Talk at "Online Short-Term Course on Chemistry of Advanced Functional Materials (CAFM-2020)" 21– 25 Sept. **2020** on "Crystal Engineering:

Fundamentals to Functional Materials" organized by Department of Chemistry, NIT, Srinagar.

9. Chaired "Microsymposium 11: Solid-state Reactions and Dynamics" at 16th Conference of Asian Crystallographic Association, **AsCA-2019**, 17-20 Dec **2019**, Singapore.
10. Delivered a talk at 16th Conference of Asian Crystallographic Association, AsCA-**2019**, 17-20 Dec Singapore on "Topochemical [2+2] Photo-polymerizations of Dienes in Crystalline Solids and Gels: Exploration of Functional Properties"
11. Delivered a talk at "Modern Trends in Inorganic Chemistry-XVIII" (**MTIC-XVIII**) on "Crystal Engineering of Porous Crystalline MOFs: Isorecticular Synthesis, Gas Sorption and Heterogeneous Catalysis" IIT Guwahati 11–14 December, **2019**
12. 1st International conference on "Crystal Engineering: From Molecule to Crystal", March 30-31, **2019**, NIT Raipur, Invited talk on Crystal Engineering of Porous Frameworks for Gas Sorption and Catalysis
13. International Conference on Structural and Inorganic Chemistry-II (ICSIC-II)" March 18-19, **2019**, IISER Pune, India, invited talk on "Crystal Engineering of Porous Frameworks for Gas Sorption and Catalysis"
14. Cryst. Growth & Design Editorial Board Meeting, Newry, Maine, USA 24th-29th June, **2018**, participated as an associate editor of *Crystal Growth & Design*.
15. Gordon Research Conference, Crystal Engineering, Newry, Maine, USA 24th-29th June, 2018, participated as an associate editor of *Crystal Growth & Design*.
16. 24th Congress and General Assembly of the International Union of Crystallography 21-28 August **2017**, HICC, Hyderabad, India. Chair Person of MS-056: Direct observation of reactions and labile species within porous Frameworks.
17. *Crystal Growth & Design* Editorial board meeting and GRC on Crystal Engineering, Stoweflake Conference Center Stowe, VT, *United States of America* (26-06-**2016** to 01-07-**2016**).
18. Crystals for Every One at Department of Chemistry, Jhargram Raj College West Bengal, India (29-11-**2016** to 29-11-**2016**)
19. Crystal Engineering: From Crystals to Functional Materials at NIT, Agartala, Tripura, India (08-12-**2016** to 09-12-**2016**)

20. 13th Asian Crystallographic Association Conference, ASCA-2015, 5th -8th December, **2015**, chair person of microsymposium MS-2: “Engineering of Crystalline and Non-crystalline Solids”
21. MTIC-XVI, 3rd-5th December, **2015**, Jadavpur University, Kolkata, given invited talk on “Coordination Polymers: Cation/Anion and Guest Exchange Studies and Solid State Reactivities”
22. Visited following Universities in China from 15th Jun to 8th July **2015** and gave talks on the theme of Crystal Engineering: From Structures to Properties
- a) Shantou University , Shantou, 16th June, 2015
 - b) South China Normal University, Guangzhou, 23rd June, 2015
 - c) Sun Yat-Sen University, Guangzhou, 25th June, 2015
 - d) Nanjing University, Nanjing, 26th June, 2015
 - e) Nankai University, Tianjing, 28th June, 2015
 - f) Beijing University of Technology, 29th June, 2015
 - g) Shanxi University, Tai Yuan, 1st July, 2015
 - h) Shanxi Normal University, Linfen, 2nd July, 2015.
23. Delivered two invited talks in “Science Academics Lecture Workshop on Supramolecular Assemblies: Synthesis and Applications”, Department of Chemistry, Guru Ghasidas Vishwavidyalaya, Bilaspur, 21-22 August, **2015**.
24. Invited talk on Crystal Engineering of Coordination Polymers and Solid State [2+2] Reactions, 27th January, **2015**, IIT, Kanpur.
25. ACSOC, Feb 11, **2015**, American Chemical Society on Campus at Sri Ramachandra University, Chennai, Delivered talks on “Basics in Scholarly Publishing: Peer Review-What It Is, How It Works, and Why It Matters! And Copyright and Ethics in Scholarly Communication”
26. ACSOC, Feb 10, **2015**, American Chemical Society on Campus at University of Madras, Chennai, Delivered talks on “Basics in Scholarly Publishing: Getting Started, Peer Review-What It Is, How It Works, and Why It Matters! And Copyright and Ethics in Scholarly Communication”

27. Third China-India-Singapore Symposium in Crystal Engineering at IISc, Bangalore, 8th -10th December, **2014**. Given invited talk on “Crystal Engineering of Solid state [2+2] Reactions in Organic and Metal-organic Solids”
28. SCOMM-14: International Conference on Structural Chemistry of Molecules and Materials, 30th NOV – 2nd Dec, **2014**. Delivered invited talk on Crystal Engineering of Organic and Metal-Organic Functional Materials
29. ACSOC, American Chemical Society on Campus at Institute of Chemical Technology (ICT), Mumbai, Nov-21, **2014** Delivered talk on Basics in Scholarly Publishing: Getting Started, Peer Review What It Is, How It Works and Why it Matters”.
30. IUCR congress **2014**, August 5-12, Montreal, Canada, Chaired microsymposia on “Hydrogen Bonding as a Crystal Engineering Design Tool”, MS35.
31. ICMAT **2013** Symposium X: Crystal Engineering of New Materials *invited talk* on “Crystal Engineering of Functional Materials” and *chaired a session*, 30 June to 5th July, **2013**, Singapore
32. Invited talk on “Crystal Engineering of Functional materials” *at* ACS on Campus at IACS, Kolkata, Oct-12, **2012**.
33. Gordon Research Conference on Crystal Engineering, 10-15th June, **2012**, Waterville Valley, New Hampshire, USA, invited talk presented in the Coordination Polymers session on Hydrogen Bonded Coordination Polymers and Gels: Guest, Anion, and Cation Exchange Dynamics
34. Indo-US Bilateral Meeting on the Evolving Role of Solid-State Chemistry in Pharmaceutical Science, **2012**, February 2-4, Heritage Village Resort & Spa, Manesar, Delhi, “Two Component Host Systems for Guest Inclusion”
35. Crystal forms@Bologna, **2012**, January 19-21, Bologna, Italy, “Synthon Interference: Co-crystals, Salts and Polymorphs”
36. IUCR congress **2011**, August 22-29, Madrid, Spain, Delivered a lecture on “Supramolecular Synthons in Crystal Engineering” in MS-17: Synthons: From Small to Macro Molecules

37. Chaired Keynote lecture, IUCR congress **2011**, August 22-30, Madrid, Spain.
“Crystalline Molecular Flasks” by Makoto Fujita, University of Tokyo, Japan
38. IUCR journal commission meeting, August 19-21, **2011**, Madrid, Spain.
39. International Conference on the Chemistry of Organic Solid State (ICOS-XX), SSCU, Bangalore, India, June 25-30, **2011**, “Crystal Engineering of Functional Materials”.
40. *Crystal Growth & Design* India Summit, IISc., Bangalore, Dec 2-3, **2010**; given a invited talk on “Interference and Template Effects in Crystal Engineering”
41. Chaired a Micro Symposium (MS-12) on “Crystal Growth and Engineering” at AsCA'2010, Busan, Korea 30th October to 3rd November.
42. First China-India-Singapore Symposium on Crystal Engineering at National University of Singapore, Singapore, 31st July to 2nd August, **2010**. Given a talk on Crystal Engineering with Acid, Amide and Pyridine Containing Molecules
43. Indo-Russian workshop on Structure and properties of organic and organometallic crystals: From fundamental research to advanced applications. “Design and Crystal Engineering in Organic and Metal-Organic Systems” at *Institute of Solid State Chemistry & Mechanochemistry SB RAS, Novosibirsk* during September 27-30, **2009**.
44. Indo-German Symposium in Supramolecular Chemistry, “Crystal Engineering in Assembling Molecules to Functional Supramolecular Architectures” at University of Delhi, 03, March, **2009**.
45. Crystal Engineering and Noncovalent Interactions: Contemporary Themes and Futuristic Developments, Crystal Engineering: Molecules to Supramolecules at COORG, Orange County, 22-25, Feb, **2009**.
46. Indo-US Bilateral Workshop on Pharmaceutical Co-crystals, “Crystal engineering with molecules containing multiple amide functionalities: interference of halogens, pyridine and carboxylic acid functionalities in amide-to-amide hydrogen bonds” at Mysore, India 08-11, Feb, **2009**.

47. “Crystal Engineering: Molecules to Network Materials *at* University of Hyderabad, 18, Nov, **2008**.
48. 6th One Day National Symposium in Chemistry, “Crystal Engineering: Molecules to Supramolecules *at* Indian Institute of Technology” Department of chemistry Kharagpur, 8th November, **2008**.
49. Chaired a Micro-symposium “MS7: Water Clusters in Molecular Crystals, coordination polymers and biological macromolecule” *at* **IUCR-2008**, Aug-24, Osaka, Japan.
50. Invited talk on “Crystal Engineering in Assembling Molecules To Functional Supramolecules” 18-Jun-**2008**, ICES, 1, Jurang Island, Singapore.
51. Invited talk on “Assembling Molecules To Functional Supramolecules”, 06-June-**2008**, Department of Chemistry, National University of Singapore.
52. 37th National Seminar on Crystallography, Department of Physics, Jadavpur University, Kolkata, February 6-8, **2008**. “Invited talk on Crystal engineering with amide and pyridine containing derivatives”.
53. Modern Trends in Inorganic Chemistry, MTIC-XII, Department of Chemistry, Indian Institute of Technology, Madras, Chennai 600036, India, December 6-8, **2007**. Invited Talk on “Crystal Engineering of Metal-Organic Frameworks Containing Amide Functionalities”
54. Singapore International Chemical Conference, Shangri-La Hotel, Singapore, December, 8-10, **2005**. Invited Talk on “Designing Metal-Organic Hybrid networks containing β -sheet hydrogen bonds and guest inclusion”
55. National Symposium on Chemistry: At The Inorganic and Organic Interphase, IIT, Guwahati, December, 6-7, **2004**; Invited Talk on “Designing Metal-Organic Hybrid Solids”
56. Discussion meeting on Intermolecular Interactions at Orange County, Coorg, Karnataka, November 30- December 3, **2003**, Invited talk on “Assembling Molecules via Non-covalent Interactions”

Conference presentations and Invited talks from other places:

(excluding presentations by coworkers):

1. CMCD4, "Computational Methods in Chemical Design: Molecular Modelling: Theory and Experiments", Kloster Irsee, Germany, May 15-20, 1994.
 - Poster presented on "*Solid State Supramolecular Assembly via C-H...O Hydrogen Bonds*".
2. MTIC-95, "Modern Trends in Inorganic Chemistry", University of Hyderabad, Hyderabad-500 046, Aug 16-18, 1995.
 - Poster presented on "Hydrogen Bonding in Organometallic Crystals: Transition Metal Complexes Containing Amido Groups".
3. Fifth Chemical Congress of North America, Special Topics in Physical Chemistry, November 11-15, 1997, Cancun, Mexico.
 - Oral Presentation on "Supramolecular Isomerism in Dianionic Salts of Pyromellitic acid".
4. ESTAC, "Technology Day, 1997, November 17. The Delta Meadowvale Conference Centre, 6750 Mississauga Road, Mississauga, Ontario, Canada.
 - Poster presented on "Environmental Applications of Organic Clays"
5. ACA Meeting, Transactions Symposium: Crystal Engineering, July 18-23, 1998, Crystal City, Washington, DC, USA,
 - Talk on "Supramolecular Bilayer Architectures via Hydrogen Bonding Interactions: Lipid Membrane Mimics"
6. Gordon Conference on Organic Structures and Properties, September 1998, Fukuoka, Japan.
 - Poster presented on "Design of 1D-polymers Based On Transition Metal Atoms and Organic Ligands and Anions".
7. 62nd Okazaki conference, January 1999, Okazaki, Japan.
 - Talk on "Supramolecular Synthesis of Clay Mimics with Affinity for Aromatic Guests".
8. International Symposium on Molecular Design and Functionalities of Assembled Metal Complexes, November 30 –December 2, 1999, Kyoto, Japan.
 - Poster presented on "The Non-interpenetrated Square Grids of the Dimension 20x20 Å and 15x15 Å via Coordination".
9. Dalton Discussion 3, Inorganic Crystal Engineering, University of Bologna, Italy, 9-11 September 2000.
 - Poster presented on "Coordination Polytubes with the Affinity for Guest Inclusion"]
10. ISMC: 26th International Symposium on Macrocyclic Chemistry, Fukuoka, Japan, 15-20, July, 2001.
 - Poster presented on "A Dynamic 3D-coordination network with the ability to exchange guest Molecules In crystal-to-crystal manner"
11. International Symposium on Cooperative Phenomena of Assembled Metal Complexes: November 15-17, 2001, Osaka, Japan
 - Poster presented on "A Spring Like 3D-Coordination Network Containing (10,3)-b Configuration"

List of Publications

11690 citations with *h*-index of 52 (Google Scholar)

11405 citations with *h*-index of 51 (Scopus)

11399 citations with *h*-index of 51 (WoS, 14/08/2021)

Names of corresponding author(s) are underlined

210	V. Gude, P. Choubey, S. Das, C. M. Reddy, <u>Kumar Biradha</u>	Elastic orange emissive single crystals of 1, 3-diamino-2, 4, 5, 6-tetrabromobenzene as flexible optical waveguides	<i>J. Mat. Chem. C.</i> , 2021, 9 , 9465 – 9472.
209	<u>Kumar Biradha</u> , A Goswami, R Moi, S Saha	Metal–organic frameworks as proton conductors: strategies for improved proton conductivity	<i>Dalton Trans.</i> 2021, 50 , 10655–10673.
208	V. Gude and <u>Kumar Biradha</u>	Effect of Noncovalent Interactions on the Intersystem Crossing Behavior in Charge-Transfer Cocrystals of 3, 5-Dinitrobromobenzene	<i>J. Phys. Chem. C.</i> 2021 , 125,120-129.
207	K. Nath, A. B. Rahaman, R. Moi, K. Maity and <u>Kumar Biradha</u>	Porous Li-MOF as a solid-state electrolyte: exploration of lithium ion conductivity through bio-inspired ionic channels	<i>Chem. Comm.</i> 2020 , 56, 14873-14876.
206	<u>Kumar Biradha</u> , A. Goswami and R. Moi	Coordination polymers as heterogeneous catalysts in hydrogen evolution and oxygen evolution. <i>Reactions</i> (4 citations)	<i>Chem. Comm.</i> 2020 , 56, 10824-10842
205	A. Goswami, D. Ghosh, V. V. Chernyshev, A. Dey, D. Pradhan, <u>Kumar Biradha</u>	2D MOFs with Ni(II), Cu(II), and Co(II) as Efficient Oxygen Evolution Electrocatalysts: Rationalization of Catalytic Performance vs Structure of the MOFs and Potential of the Redox Couples (4 citations)	<i>ACS Applied Materials & Interfaces</i> 2020 , 12, 33679-33689.
204	R. Mondal, A. Garai, S. Peli, P. K. Datta and <u>Kumar Biradha</u>	Photoinduced Bending of Single Crystals of a Linear Bis-Olefin via Water templated Solid-State [2+2] Photopolymerization Reaction (8 citations)	<i>Chem. Eur. J.</i> 2020 , 26, 396-400.
203	R. Mandal and <u>Kumar Biradha</u>	Photochemical [2+ 2] polymerization of metal–organic gels of a rigid and angular diene with silver-salts of diverse anions: selective dye-sorption and luminescence by xerogels (5 citations)	<i>Dalton Trans.</i> , 2020 , 49, 13744-13752
202	A. Garai and <u>Kumar Biradha</u>	Cocrystals and Salts of 4, 4'-Dinitro-2, 2', 6, 6'-tetracarboxybiphenyl with N-Heterocycles: Solid State Photodimerization of Criss-Cross Aligned Olefins and Photophysical Properties	<i>Crystal Growth & Des.</i> 2020 , 20, 8059-8079.

201	R. Moi, A. Ghorai, S. Banerjee and <u>Kumar Biradha</u>	Amino-and Sulfonate-Functionalized Metal–Organic Framework for Fabrication of Proton Exchange Membranes with Improved Proton Conductivity (2 citations)	<i>Crystal Growth & Des.</i> 2020 , 20, 5557-5563.
200	V. Gude, M. Karmakar, A. Dey, P. K. Datta and <u>Kumar Biradha</u>	Is the origin of green fluorescence in unsymmetrical four-ring bent-core liquid crystals single or double proton transfer? (2 citations)	<i>Phys. Chem. Chem. Phys.</i> 2020 , 22 4731-4740.
199	K. Maity, K. Nath, M. Sinnwell, R. K. Motkuri, P. Thallapally and <u>Kumar Biradha</u>	Isorecticular Expansion of Metal–Organic Frameworks via Pillaring of Metal Templated Tunable Building Layers: Hydrogen Storage and Selective CO ₂ Capture (4 citations)	<i>Chem. Eur. J.</i> 2019 , 25, 14500-14505.
198	K. Narayana, D. Ghosh, A. Dey, D. Pradhan and <u>Kumar Biradha</u>	Isostructural Ni(II) Metal Organic Frameworks (MOFs) for Efficient Electrocatalysis of Oxygen Evolution Reaction and for Gas Sorption Properties (7 citations)	<i>Chem. Eur. J.</i> 2019 , 25, 11141-11146.
197	R. Mondal, A. Garai and <u>Kumar Biradha</u>	Solid or Gel? Which one Works Better for [2+2] Photochemical Polymerization in Pyridine Appended Flexible Phenylene 1,4-bis-olefins by Ag...Ag Interactions (2 citations)	<i>Dalton Trans.</i> , 2019 , 48, 17456-17460.
196	R. Moi, K. Nath and <u>Kumar Biradha</u>	Tailoring Coordination Polymers by Substituent Effect: A Bi-functional Co(II) Doped 1D-Coordination Network with Electrochemical Water Oxidation and Nitro Aromatics Sensing (8 citations)	<i>Chem. Asian J.</i> 2019 , 14, 3742-3747.
195	A. Garai, A. G. Kumar, S. Banerjee and <u>Kumar Biradha</u>	Proton-Conducting Hydrogen-Bonded 3D Frameworks of Imidazo-Pyridine-Based Coordination Complexes Containing Naphthalene Disulfonates in Rhomboid Channels (4 citations)	<i>Chem. Asian J.</i> 2019 , 14, 3742-3747.
194	K. Nath, C. K. Karan and <u>Kumar Biradha</u>	Metal-Organic Frameworks and Metal-Organic Framework Derived N-doped Porous Carbon Materials as Heterogeneous Catalysts: Chemical Fixation of Carbon Dioxide under Mild Conditions and Electrochemical Hydrogen Evolution (8 citations)	<i>Cryst. Growth & Des.</i> 2019 , 19, 6672-6681.
193	A. Garai and <u>Kumar Biradha</u>	Binary and Ternary Salts and Cocrystals of 2-(2-(pyridine-4-yl)vinyl)-1H-benzimidazole with Aromatic Carboxylic Acids: Solid State [2+2] Reactions, Photoluminescence and Ammonia Sensing	<i>Cryst. Growth & Des.</i> 2019 , 19, 4602-4612.

		Properties (7 citations),	
192	K. Nath, K. Bhunia, D. Pradhan and <u>Kumar Biradha</u>	MOF-templated Cobalt Nanoparticles Embedded in Nitrogen-doped Porous Carbon: A Bifunctional Electrocatalyst for Overall Water Splitting (9 citations)	<i>Nanoscale Advances</i> 2019 , 1, 2293-2302.
191	S. K. Konavarapu, A. Goswami, A. G. Kumar, S. Banerjee and <u>Kumar Biradha</u>	MOFs containing linear bis-pyridyl-tris-amide and angular carboxylates: exploration of proton conductivity, water vapor and dye Sorptions (24 citations)	<i>Inorg. Chem. Front.</i> 2019 , 6, 184-191.
190	K. Maity, D. Mukherjee, M. Sen and <u>Kumar Biradha</u>	Fluorescent Dye-Based Metal–Organic Framework Piezochromic and Multicolor-Emitting Two-Dimensional Materials for Light-Emitting Devices (4 citations)	<i>ACS Applied Nano Materials</i> , 2019 , 2, 1614-1620.
189	R. Mondal and <u>Kumar Biradha</u>	Organic Polymers of an Angular Diene via solid state [2+2] Polymerization: Coordination Polymers with Dicarboxylates as Template (4 citations)	<i>Cryst. Growth & Des.</i> 2019 , 19, 3445-3452.
188	D. Das and <u>Kumar Biradha</u>	Cocrystals and Salts of 3,5-bis(pyridinylmethylene)piperidin-4-one with Aromatic Poly-carboxylates and Resorcinols: Influence of Stacking Interactions on Solid-state Luminescence Properties (3 citations)	<i>Aus. J. Chem.</i> 2019 , 72, 742-750.
187	A. Goswami, M. Garai and <u>Kumar Biradha</u>	Interplay of Halogen Bonding and Hydrogen Bonding in the Cocrystals and Salts of Dihalogens and Trihalides with N,N'-bis-(3-pyridyl-acrylamido) Derivatives: Phosphorescent Organic Salts (4 citations)	<i>Cryst. Growth & Des.</i> 2019 , 19, 2175-2188.
186	S. K. Konavarapu and <u>Kumar Biradha</u>	Luminescent Triazene Based Covalent Organic Frameworks Functionalized with Imine and Azine: N ₂ and H ₂ Sorption and Efficient Removal of Organic Dye (18 citations)	<i>Cryst. Growth & Des.</i> 2019 , 19, 362-368.
185	A. Dey and <u>Kumar Biradha</u>	Photochemical Reactions in Supramolecular Assemblies of Gels: Dimerizations and Polymerizations via Pericyclic Reactions (5 citations)	<i>Israel Journal of Chemistry</i> , 2019 , 59, 220-232.
184	K. Nath, M. Chandra, D. Pradhan and <u>Kumar Biradha</u>	Supramolecular Organic Photocatalyst Containing a Cubanelike Water Cluster and Donor–Acceptor Stacks: Hydrogen Evolution and Dye Degradation under Visible Light (14 citations)	<i>ACS Appl. Mater. Interfaces</i> 2018 , 10, 29417-29424.
183	A. Dey, A. Garai, V. Gude and	Thermochromic, Solvatochromic, and Piezochromic Cd(II) and Zn(II)	<i>Cryst. Growth & Des.</i> 2018 ,

	<u>Kumar Biradha</u>	Coordination Polymers: Detection of Small Molecules by Luminescence Switching from Blue to Green (16 citations)	18, 6070-6077.
182	D. Das, S. Roy and <u>Kumar Biradha</u>	Crystal Engineering with Isosteric Triether and Triamine linked Aromatic Tri-carboxylic Acids: Iso-structurality and Synthons Interplay in their Co-crystals and Salts with Bis(pyridyl) Derivatives (2 citations)	<i>New J. Chem.</i> 2018 , 42, 19953-19962.
181	V. Gude, D. Rout, M. K. Panigrahi and <u>Kumar Biradha</u>	Origin of green photoluminescence in four-ring bent-core molecules with ESIPT, selective sensing of zinc ions by turn-on emission and their liquid crystal properties (6 citations)	<i>Photochem. Photobiol. Sci.</i> 2018 , 17, 1386-1395.
180	K. Maity, C. K. Karan and <u>Kumar Biradha</u>	Porous Metal Organic Polyhedral Framework Containing Cuboctahedron Cages as SBUs with High Affinity for H ₂ and CO ₂ Sorptions: A Heterogeneous Catalyst for Chemical Fixation of CO ₂ (Hot paper, 26 citations)	<i>Chem. Eur. J.</i> 2018 , 2, 10988-10993.
179	S. K. Konavarapu, A. Dey, A. Garai, and <u>Kumar Biradha</u>	Self-Sorting of Metal–Organic Polymeric Assemblies in Gels: Selective Templatation and Catalysis of Homodimers (5 citations).	<i>Chem. Eur. J.</i> 2018 , 24, 5760-5764.
178	D. Das and <u>Kumar Biradha</u>	Luminescent Coordination Polymers of Naphthalene Based Diamide with Rigid and Flexible Dicarboxylates: Sensing of Nitro Explosives, Fe(III) Ion, and Dyes (44 citations)	<i>Cryst. Growth & Des.</i> 2018 , 18, 3683-3692.
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165	M Garai and <u>Kumar Biradha</u>	Functionalizable organic polymers: coordination polymers as templates for solid-state [2+2] reaction	<i>Acta Cryst.</i> 2017 , A73, C977.
164	R Mandal and <u>Kumar Biradha</u>	Solid-State [2+2] Polymerization of a Bis-Olefinic molecule and luminescence property	<i>Acta Cryst.</i> 2017 , A73, C975

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162	D Das and <u>Kumar Biradha</u>	Supramolecular metallogelator: the pivotal role of aromatic solvents and anions	<i>Acta Cryst.</i> 2017 , A73, C528.
161	K. Nath and <u>Kumar Biradha</u>	Separation of xylene isomers through selective inclusion: 1D→2D, 1D→3D and 2D→3D assembled coordination polymers via β -sheets (13 citations)	<i>Cryst. Growth Des.</i> 2016 , 16, 5606-5611.
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125	K. Banerjee and <u>Kumar Biradha</u>	Design and Synthesis of Mixed Valent Coordination Networks Containing Pyridine Appended Terpyridyl, Halide, and Dicarboxylates (23 citations)	<i>Cryst. Growth. & Design</i> 2012 , 12, 4264-4274.
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113	S. Samai, <u>J. Dey</u> and <u>Kumar Biradha</u>	Amino acid based low-molecular-weight tris(bis-amido) organogelators (33 citations)	<i>Soft Matter</i> 2011 , 7, 2121-2126.
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104	L. Rajput, R. Santra and <u>Kumar Biradha</u>	Crystal Engineering Studies on Ionic Crystals of Pyridine and Carboxylic Acid Derivatives Containing Amide Functional Groups (10 citations)	<i>Aust. J. Chem.</i> 2010 , 63, 578-588.
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86.	M. Sarkar and <u>Kumar Biradha</u>	Crystal engineering of metal-organic frameworks containing amide functionalities: Studies on network recognitions, transformations and exchange dynamics of guests and anions (82 citations)	<i>Cryst. Growth & Design</i> 2007 , 7, 1318-1331.
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84.	G. Mahata and <u>Kumar Biradha</u>	Hydrogen Bonding Adducts of Octamolybdate Anions Containing Coordinately Bound Pyridiniumoxides. (7 citations)	<i>Inorg. Chem. Acta.</i> 2007 , 360, 281-285.
83.	<u>Kumar Biradha</u> , M. Sarkar and L. Rajput	Crystal engineering of coordination polymers using 4,4'-bipyridine as a bond between transition metal atoms (473 citations)	<i>Chem. Commun.</i> 2006 , 4169-4179
82.	M. Sarkar and <u>Kumar Biradha</u>	Interplay of Hydrogen Bonds in Assembling (4,4)-coordination Networks: Transformations From Open to	<i>Crystal Growth & Design</i> , 2006 , 6, 1742-1745.

		Interpenetrated Networks via Anion Exchange (47 citations)	
81	M. Sarkar and <u>Kumar Biradha</u>	Entrapment of hexamer of nitrobenzene molecules between the layers of (4,4)-coordination networks containing intra β -sheet hydrogen bonds (17 citations)	<i>Eur. J. Inorg. Chem.</i> 2006 , 531-534.
80	M. Sarkar and <u>Kumar Biradha</u>	Amide-to-amide hydrogen bonds in the presence of pyridine functionality: Crystal structures of bis(pyridinecarboxamido) alkanes (139 citations)	<i>Cryst. Growth & Des.</i> 2006 , 6, 202-208.
79	D. K. Chand, <u>Kumar Biradha</u> , M. Kawano, S. Sakamoto, K. Yamaguchi, and <u>M. Fujita</u>	Dynamic self-assembly of an M3L6 molecular triangle and an M4L8 tetrahedron from naked PdII ions and bis(3-pyridyl)-substituted arene (80 citations)	<i>Chemistry--An Asian Journal</i> , 2006 , 1, 82-90.
78	M. Sarkar and <u>Kumar Biradha</u>	β -sheet recognition in the non-interpenetrated and interpenetrated two-dimensional coordination networks containing cavities (90 citations)	<i>Chem. Commun.</i> 2005 , 2229-2231.
77	<u>Kumar Biradha</u> and G. Mahata	Enclathration of aromatic molecules by the O-H...N supramolecular adducts of racemic-bis- β -naphthol and 4,4'-bipyridine (70 citations)	<i>Cryst. Growth & Des.</i> 2005 , 5, 61-63.
76	<u>Kumar Biradha</u> and G. Mahata	A 3D-Honeycomb Network with Unique Encapsulation of Dimers of 1D-chains (23 citations)	<i>Cryst. Growth & Des.</i> 2005 , 5, 49-51.
75	S. Khatua, S. Dasgupta, <u>Kumar Biradha</u> , <u>M. Bhattacharjee</u>	Self-assembly of an alkali metal cluster stabilized by a new flexidentate metalloligand: Formation and structure of heterobimetallic Na-Mo and Cs-Mo 2D networks (11 citations)	<i>Eur. J. Inorg. Chem.</i> 2005 , 24, 5005-5010.
74	J. F. Glister, K. Vaughan, <u>Kumar Biradha</u> , <u>M. J. Zaworotko</u>	(2S,7R,11S,16R)-1,8,10,17-Tetraazapentacyclo[8.8.1.18,17.02,7.011,16]eicosane and its enantiomer. Synthesis, NMR analysis and X-ray crystal structure (11 citations)	<i>J. Mol. Str.</i> 2005 , 749, 78-83.
73	<u>Kumar Biradha</u> and M. Sarkar	Coordination Polymers of Ag(I) with di-Schiff base and diaminoalkanes: double helix, ladder, CdSO ₄ and zigzag-chain networks (28 citations)	<i>CrystEngComm</i> , 2004 , 6, 310-314.
72	A. Hori, K.-i. Yamashita, T. Kusakawa, A. Akasaka, <u>Kumar Biradha</u> and <u>M.</u>	A circular tris[2]catenane from molecular figure-of-eight (30 citations)	<i>Chem. Commun.</i> 2004 , 1798-1799.

	<u>Fujita</u>		
71	<u>Kumar Biradha</u>	Crystal engineering: from weak hydrogen bonds to co-ordination bonds (303 citations)	<i>CrystEngComm</i> , 2003 , 374-384.
70	M. Yoshizawa, M. Nagao, K. Umemoto, <u>Kumar Biradha</u> , <u>M. Fujita</u> Shigeru Sakamoto, Kentaro Yamaguchi	“Side chain-directed assembly of triangular molecular panels into a tetrahedron vs. open cone (60 citations)	<i>Chem. Commun.</i> , 2003 , 1808-1809.
69	K. Kumazawa, <u>Kumar Biradha</u> , T. Kusukawa, T. Okano and <u>M. Fujita</u> ,	Multicomponent assembly of a pyrazine-pillared coordination cage that selectively binds planar guests by intercalation (169 citations)	<i>Angew. Chem. Int. Ed.</i> 2003 , 42, 3909-3913.
68	D. K. Chand, <u>M. Fujita</u> , <u>Kumar Biradha</u> , S. Sakamoto, K. Yamaguchi	Metal driven self-assembly of pyridine appended ligands with <i>cis</i> -protected/naked Pd(II) ion: a comparative study (41 citations)	<i>J. Chem. Soc., Dalton Trans.</i> , 2003 , 2750-2756.
67	<u>Kumar Biradha</u> and <u>M. Fujita</u>	A Springlike 3D-Coordination Network That Shrinks or Swells in a Crystal-to-Crystal Manner upon Guest Removal or Readsorption (378 citations)	<i>Angew. Chem. Int. Ed.</i> 2002 , 41, 3392-3395.
66	<u>Kumar Biradha</u> , Y. Hongo and <u>M. Fujita</u>	Crystal-to-Crystal Sliding of 2D Coordination Layers Triggered by Guest Exchange (266 citations)	<i>Angew. Chem. Int. Ed.</i> 2002 , 41, 3395-3398.
65	<u>Kumar Biradha</u> and <u>M. Fujita</u>	A ‘three-in-one’ crystal of coordination networks (89 citations)	<i>Chem. Comm.</i> , 2002 , 1866-1867.
64	D. K. Chand, <u>Kumar Biradha</u> , <u>M. Fujita</u> , S. Sakamoto and K. Yamaguchi	A Molecular Sphere of Octahedral Symmetry (86 citations)	<i>Chem. Commun.</i> , 2002 , 2486-2487.
63	<u>X.-H. Bu</u> , W. Chen, M. Du, <u>Kumar Biradha</u> , W.-Z. Wang, and R.-H. Zhang	Chiral Noninterpenetrated (10,3)-a Net in the Crystal Structure of Ag(I) and Bisthioether (135 citations)	<i>Inorganic Chemistry</i> ; 2002 , 41, 437-439.
62	A. Hori, A. Akasaka, <u>Kumar Biradha</u> , S. Sakamoto, K. Yamaguchi, and <u>M. Fujita</u>	Chirality Induction through the Reversible Catenation of Coordination Rings (59 citations)	<i>Angew. Chem. Int. Ed.</i> 2002 , 41, 3269-3272.

61	M. Du, X.-H. Bu, Kumar Biradha , <u>M. Shionoya</u>	An extended network via hydrogen bond linkage of the linear coordination polymer [Cd(μ -dptz)(NO ₃) ₂] (12 citations)	<i>J. Chem. Res.</i> 2002 , 247-249.
60	Y. Kubota, Kumar Biradha , <u>M. Fujita</u> , S. Sakamoto and K. Yamaguchi	A chiral M ₆ L ₄ cage complex assembled from a D _{2h} -symmetric ligand: self-assembly, structure, and chirality observation (21 citations)	<i>Bull. Chem. Soc. Jpn.</i> 2002 , 75, 559-565.
59	D. An, M. Du, X.-H. Bu, Kumar Biradha and <u>M. Shionoya</u> ,	5-Amino-6,8-dichloro-2,3-bis(2-pyridyl)quinoxaline]dichlorozinc(II) (2 citations)	<i>Acta Crystallographica</i> , 2002 , E58, 436-438.
58	M. Aoyagi, S. Tashiro, M. Tominaga, Kumar Biradha and <u>M. Fujita</u>	Spectroscopic and crystallographic studies on the stability of self-assembled coordination nanotubes (28 citations)	<i>Chem. Commun.</i> 2002 , 2036-2037.
57.	M. Du, X.-H. Bu, Kumar Biradha , <u>M. Shionoya</u>	A novel two-dimensional non-interpenetrating coordination polymer [Ag ₂ .5L(NO ₃) _{2.5}] with three different coordination modes of AgI (L = diquinoxalino[2,3-a:2',3'-c]phenazine) (2 citations)	<i>J. Chem. Res.</i> 2002 , 10, 493-495.
56	Kumar Biradha and <u>M. Fujita</u>	2D and 1D Coordination Polymers with Ability for Inclusion of Guest Molecules: Nitrobenzene, Benzene, Alkoxysilanes (21 citations)	<i>J. Incl. Phen.</i> , 2001 , 41, 201-208.
55	D. K. Chand, Kumar Biradha and <u>M. Fujita</u>	Self-assembly of a Novel Macrotricyclic Pd(II) Metallocage Encapsulating a Nitrate Ion (88 citations)	<i>Chem. Comm.</i> , 2001 , 1652-1653.
54	K. Umemoto, H. Tsukui, T. Kusukawa, Kumar Biradha and <u>M. Fujita</u>	Molecular Paneling via Coordination: An M ₁₅ L ₆ Hexahedral Capsule Having Clefts for Reversible Guest Inclusion (54 citations)	<i>Angew. Chem., Int. ed.</i> , 2001 , 40, 2620-2622.
53	M. Du, <u>X.-H. Bu</u> and Kumar Biradha	A large delocalized π -electron system diquinoxalino[2,3-a:2',3'-c]phenazine chloroform solvate (13 citations)	<i>Acta Cryst.</i> , 2001 , C57, 199-200.
52	<u>M. Fujita</u> , K. Umemoto, M. Yoshizawa, N. Fujita, T. Kusukawa, Kumar Biradha	Molecular Paneling via Coordination (904 citations)	<i>Chem. Comm.</i> 2001 , 509-518.
51	N. Fujita, Kumar Biradha , <u>M. Fujita</u> , S. Sakamoto and K.	A Porphyrin Prism: Structural Switching Triggered by Guest Inclusion (134 citations)	<i>Angew. Chem., Int. Ed.</i> 2001 , 40, 1718-1721.

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50	Kumar Biradha and <u>M. Fujita</u>	Selective formation of rectangular grid coordination polymers with grid dimensions 10x15, 10x20 and 15x20 Å (139 citations)	<i>Chem. Comm.</i> 2001 , 15-16.
49	F. Jiang, H. A. Jenkins, Kumar Biradha , H. B. Davis, <u>R. K. Pomeroy</u> and <u>M. J. Zaworotko</u>	Compounds with Unbridged Dative Metal-Metal Bonds of Formula (18 citations)	<i>Organometallics</i> , 2000 , 19, 5049-5062.
48	Kumar Biradha , A. Mondal, B. Moulton and <u>M. J. Zaworotko</u>	Coexisting covalent and non-covalent planar networks in the crystal structures of {[M(bipy) ₂ (NO ₃) ₂]arene} _n (M = Ni, 1; Co, 2; arene = chlorobenzene, o-dichlorobenzene, benzene, nitrobenzene, toluene or anisole (70 citations))	<i>J. Chem. Soc., Dalton Trans.</i> , 2000 , 3837-3844.
47	M. P. Shaver, C. M. Vogels, A. I. Wallbank, T. L. Hennigar, Kumar Biradha , <u>M. J. Zaworotko</u> , and <u>S. A. Westcott</u>	Trans alkenylpyridine and alkenylamine complexes of platinum (23 citations)	<i>Can. J. Chem.</i> 2000 , 78, 568-576.
46	X.-H. Bu, Kumar Biradha , T. Yamaguchi, M. Nishimura, T. Ito, K. Tanaka and <u>M. Shionoya</u>	A Novel Polymeric Ag ¹ Complex Consisting of Two Three-dimensional networks which are enantiomeric and interpenetrating (66 citations)	<i>Chem. Commun.</i> 2000 , 1953-1954.
45	Kumar Biradha , Y. Hongo and <u>M. Fujita</u>	Open Square Grid Coordination Polymers of the Dimension 20x20 Å: Remarkably Stable and Crystalline Even after Guest Removal (314 citations)	<i>Angew. Chem., Int. Ed. Engl.</i> 2000 , 39, 3843-3845.
44	Kumar Biradha and <u>M. Fujita</u>	Coordination Polymers Containing Square Grids of the Dimension 15x15 Å (126 citations)	<i>J. Chem. Soc., Dalton Trans.</i> , 2000 , 3805-3810. (66 citations)
43	X.-H. Bu, H. Morishita, K. Tanaka, Kumar Biradha , S. Furusho and <u>M. Shionoya</u>	A Spontaneously Resolved Chiral Molecular Box: A Cyclic Tetra Nuclear Zn ^{II} Complex with DPTZ (DPTZ = 3,6-Di-2-pyridyl-1,2,-4-5-tetrazine) (90 citations)	<i>Chem. Commun.</i> 2000 , 971-972.
42	S.-Y. Yu, T.	Hydrophobic Assembling of a	<i>J. Am. Chem.</i>

	Kusukawa, Kumar Biradha and <u>M. Fujita</u>	Coordination Nanobowl into a Dimeric Capsule Which can Accommodate up to Six Large Organic Molecules (119 citations)	<i>Soc.</i> , 2000 , 122, 2665-2666.
41	Kumar Biradha , V.M. Hansen, W.K. Leong, R.K. Pomeroy and <u>M.J. Zaworotko</u>	Steric and Electronic Influences in Os ₃ (CO) ₁₁ PR ₃ Structure (29 citations)	<i>J. Clust. Sci.</i> , 2000 , 11, 285-306.
40	M. Aoyagi, Kumar Biradha and <u>M. Fujita</u>	Formation of Two, One, and Zero-Dimensional Coordination Assemblies from Cd(II) Ion and 4,4'-bipyridine (47 citations)	<i>Bull. Chem. Soc. Jpn.</i> 2000 , 1369-1373.
39	Kumar Biradha and <u>M. Fujita</u>	Encapsulation of Two Types of Chloroform Dimers in the Cavities of a Coordination Polymer (1 citations)	<i>Chem. Let.</i> 2000 , 350-351. (1 citation)
38	Kumar Biradha , M. Aoyagi and <u>M. Fujita</u>	Coordination Poly tubes with the Affinity for Guest Inclusion (58 citations)	<i>J. Am. Chem. Soc.</i> 2000 , 122, 2397-2398.
37	Kumar Biradha , M.B. Peori, K. Vaughan and <u>M.J. Zaworotko</u>	Crystal Structures of a series of 3,8-di[-2-aryl-1-azanyl]-1,3,6,8-tetraazabicyclo[4.4.1]undecanes (10 citations)	<i>J. Chem. Crystallogr.</i> , 1999 , 29, 145-156.
36.	M. Aoyagi, Kumar Biradha and <u>M. Fujita</u>	Pd(II)- and Pt(II)-Linked Tetranuclear Complexes as Assembly Units for Higher Ordered Structures (23 citations)	<i>Bull. Chem. Soc. Jpn.</i> 1999 , 72, 2603-2606.
35	C. J. Matthews, K. Avery, Z. Xu, L. K. Thompson, L. Zhao, D. O. Miller, <u>M. J. Zaworotko</u> , Kumar Biradha , K. Poirier, C. Wilson, A. E. Goeta and J. A. K. Howard	Tetranuclear Copper(II) and Nickel(II) Cluster Complexes Derived by Self-Assembly from a Series of Tetradentate Diazine Ligands: Structural and Magnetic Studies (135 citations)	<i>Inorganic Chemistry</i> , 1999 , 38, 5266-5276.
34	<u>A. McAuley</u> , S. Subramanian, <u>M. J. Zaworotko</u> and Kumar Biradha	Stepwise Complexation of Ni(II) and Cu(II) Ions by 6,6'-C-spirobi(cyclam) (cyclam = 1,4,8,11-Tetraazacyclotetradecane), L ₁ . Syntheses and Redox Chemistry of [M(H ₂ L ₁)]X ₄ (M = Cu ²⁺ , Ni ²⁺), [Cu ₂ (L ₁)]X ₄ , and [CuNi(L ₁)]X ₄ (X = ClO ₄ ⁻) and the X-ray Crystal Structure (13 citations)	<i>Inorganic Chemistry</i> ; 1999 , 38, 5078-5085.
33	Kumar Biradha , K. V.	Interpenetrating Covalent and Noncovalent Nets in the Crystal Structures	<i>Crystal Engineering</i> ,

	Domasasevitch, C. Hogg, B. Moulton, K. N. Power and <u>M. J. Zaworotko</u>	of [M(4,4'-bipyridine) ₂ (NO ₃) ₂].3C ₁₀ H ₈ (M = Co, Ni)	1999 , 2, 37-45.
32	<u>E. Kiehlmann</u> , Kumar Biradha , K. V. Domasevitch and <u>M.J. Zaworotko</u>	Crystal structures of dihydroquercetin 3-acetate and dihydroquercetin 3',7'-tetraacetate: hydrogen bonding in 5-hydroxyflavanones(8 citations)	<i>Can. J. Chem.</i> 1999 , 77, 1436-1443.
31	C. M. Vogels, H. L. Wellwood, T. L. Hennigar, Kumar Biradha , <u>M. J. Zaworotko</u> , and <u>S. A. Westcott</u>	Reactions of Aminoboron Compounds with Palladium and Platinum Complexes (22 citations)	<i>Can. J. Chem.</i> 1999 , 77, 1196-1207.
30	M. Aoyagi, Kumar Biradha and <u>M. Fujita</u> ,	Quantitative Formation of Coordination Nanotubes Templated by Rodlike Guests (257 citations)	<i>J. Am. Chem. Soc.</i> 1999 , 121, 7457-7458.
29	Kumar Biradha , K.V. Domasevitch, B. Moulton, C. Seward and <u>M.J. Zaworotko</u>	Covalent and Noncovalent interpenetrating planar networks in the crystal structure of {[Ni(4,4'-bipyridine) ₂ (NO ₃) ₂].2pyrene} _n (176 citations)	<i>Chem. Commun.</i> 1999 , 1327-1328.
28	C.J. Matthews, Z. Xu, S.K. Mandal, L.K. Thompson, Kumar Biradha , K. Poirier and <u>M.J. Zaworotko</u>	A Novel Penta-Manganese(II) Cluster Produced by a Controlled Self Assembly Process; an Exact Match Between the Coordination Algorithm of the Metals and the Ligand Binding Site Arrangement (41 citations)	<i>Chem. Commun.</i> 1999 , 347-348.
27	Kumar Biradha , H. Jenkins, I.R. Pottie, C.V.K. Sharma, K. Vaughan and <u>M.J. Zaworotko</u>	Crystal structure of 1,3-di-2-[(4-methoxyphenyl)-1-diazenyl]imidazolidine (3 citations)	<i>J. Chem. Crystallogr.</i> , 1999 , 29, 1037-1041.
26	Kumar Biradha , D. Dennis, V.A. MacKinnon, C. Seward, <u>M.J. Zaworotko</u>	Supramolecular Synthesis of Organic and Metal-Organic Laminates with Affinity for Aromatic Guests: Hydrophobic Clay Mimics: NATO Advanced Research Workshop, G. Tsoucaris, editor., Kluwer Academic Publishers, Dordrecht, The Netherlands. (7 citations)	<i>Supramolecular Chemistry</i> , 1999 , 115-132.
25	Kumar Biradha , C. Seward, <u>M.J. Zaworotko</u>	Helical Coordination Polymers with Large Chiral Cavities (404 citations)	<i>Angew. Chem., Int. Ed. Engl.</i> 1999 , 38, 492-495.

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23	F. Jiang, Kumar Biradha , W.K. Leong, <u>R.K. Pomeroy</u> , <u>M.J. Zaworotko</u>	Dicarbonylcyclopentadienyliridium, (η -C ₅ H ₅)Ir(CO) ₂ , as a ligand (10 citations)	<i>Can. J. Chem.</i> 1999 , 77, 1327-1335.
22	Kumar Biradha , R.D. Singer, A. Stark, <u>K. Vaughan</u> and <u>M.J. Zaworotko</u>	Crystal Structures of a Series of 3,7-bis-(Arylazo)-1,3,5,7-tetraazabicyclo[3.3.1]nonanes (5 citations)	<i>J. Chem. Cryst.</i> , 1998 , 28, 797-809.
21	Kumar Biradha , D. Dennis, K.M. Poirier, C.V.K. Sharma, <u>M.J. Zaworotko</u>	Supramolecular Bilayers via Hydrogen bonding and Hydrophobic Interactions: Lipid Membrane Structural Mimics	Transactions of the American Crystallographic Association 1998 , 33, 85-95.
20	R. Atencio, Kumar Biradha , T.L. Hennigar, K.M. Poirier, K.N. Power, C.M. Seward, N.S. White and <u>M.J. Zaworotko</u>	Flexible Bilayer Architectures in the coordination Polymers [M ^{II} (NO ₃) ₂ (1,2-bis(4-pyridyl)ethane) _{1.5}] _n (M ^{II} =Co, Ni)	<i>Crystal Engineering</i> , 1998 , 1, 203-212.
19	Kumar Biradha , D. Dennis, V.A. MacKinnon, C.V.K. Sharma, <u>M.J. Zaworotko</u>	Supramolecular Synthesis of Organic Laminates with Affinity for Aromatic Guests: A New Class of Clay Mimics (196 citations)	<i>J. Am. Chem. Soc.</i> 1998 , 120, 11894-11903.
18	F. Jiang, J. L. Male, Kumar Biradha , W.K. Leong, <u>R.K. Pomeroy</u> , <u>M.J. Zaworotko</u>	Complexes Containing Unbridged Dative Metal-Metal Bonds and the Strong Acceptor Ru(CO) ₃ (SiCl ₃) ₂ Moiety. Comments on the Transition Metal to Silicon Bond (31 citations)	<i>Organometallics</i> , 1998 , 17, 5810-5819.
17	V.M. Hansen, A.K. Ma, Kumar Biradha , <u>R.K. Pomeroy</u> and <u>M.J. Zaworotko</u>	Conformational Isomerism in Triosmium Clusters: Structures of Yellow and Red Os ₃ (CO) ₁₁ [P(p-C ₆ H ₄ F) ₃] and Os ₃ (CO) ₁₁ (P ^t Bu ₃) (28 citations)	<i>Organometallics</i> , 1998 , 17, 5267-5274.
16	Kumar Biradha and <u>M.J. Zaworotko</u>	A Supramolecular Analogue of Cyclohexane Sustained by Aromatic C-H... π Interactions: Complexes of 1,3,5-trihydroxybenzene with Substituted	<i>J. Am. Chem. Soc.</i> 1998 , 120, 6431-6432.

		Pyridines (112 citations)	
15	Kumar Biradha and <u>M.J. Zaworotko</u>	Supramolecular Isomerism and Polymorphism in Dianion Salts of Pyromellitic Acid: 0D, 1D, 2D and 3D-Networks From a Single Tecton (2 citations)	<i>Crystal Engineering</i> , 1998 , 1, 67-78.
14	Kumar Biradha , M.J. Zaworotko, A. Nangia and <u>G.R. Desiraju</u>	2,6-Dibenzoyl-1,4-benzoquinone (1 citation)	<i>Acta Cryst.</i> , 1997 , C53, 1653-1655.
13	Kumar Biradha , A. Nangia, <u>G.R. Desiraju</u> , C.J. Carrell and H.L. Carrell	C-H...O Hydrogen Bonded Multi-point Recognition in Molecular Assemblies of Dibenzylideneketones and 1,3,5-trinitrobenzenes (30 citations)	<i>J. Mat. Chem.</i> 1997 , 1111-1122.
12	<u>D. Braga</u> , F. Grepioni, E. Tedesco, Kumar Biradha and <u>G.R. Desiraju</u> ,	Hydrogen Bonding in Organometallic Crystals. 6. X-H...M Hydrogen Bonds and M... (H-X) Pseudo-Agostic Bonds (298 citations)	<i>Organometallics</i> , 1997 , 16, 1846-1856.
11	J. A. R. P. Sarma, F. H. Allen, V. J. Hoy, J. A. K. Howard, R. Thaimattam, Kumar Biradha , and <u>G. R. Desiraju</u>	Design of an SHG-active Crystal, 4-iodo-4'-nitrobiphenyl: The Role of Supramolecular Synthons (80 citations)	<i>Chem. Commun.</i> , 1997 , 101-102.
10	Kumar Biradha , <u>G. R. Desiraju</u> , H. L. Carrell and A.K. Katz	2,6-Dibenzoyl-hydroquinone (4 citations)	<i>Acta Cryst.</i> 1996 , C52, 2839-2841.
9	Kumar Biradha , <u>G. R. Desiraju</u> , <u>D. Braga</u> , F. Grepioni	Hydrogen Bonding in Organometallic Crystals. 3. Transition-Metal Complexes Containing Amido Groups (41 citations)	<i>Organometallics</i> 1996 , 15, 1284-1295.
8	<u>D. Braga</u> , F. Grepioni, Kumar Biradha and <u>G. R. Desiraju</u>	Agostic Interactions in Organometallic Compounds. A Cambridge Structural Database Study (70 citations)	<i>J. Chem. Soc., Dalton Trans.</i> , 1996 , 3925-3930.
7	<u>D. Braga</u> , F. Grepioni, E. Tedesco, Kumar Biradha and <u>G. R. Desiraju</u>	Hydrogen Bonding in Organometallic Crystals: Part 4. M-H...O Hydrogen Bonding Interactions (50 citations)	<i>Organometallics</i> , 1996 , 15, 2692-2699.
6.	A. Nangia, Kumar Biradha , and <u>G. R. Desiraju</u>	Correlation of Biological Activity in β -lactam Antibiotics with Woodward and Cohen Structural Parameters - A	<i>J. Chem. Soc., Perkin Trans.</i> , 1996 , 943-953.

		Cambridge Database Study (41 citations)	
5	<u>D. Braga</u> , F. Grepioni, Kumar Biradha , V. R. Pedireddi, and <u>G. R. Desiraju</u>	Hydrogen Bonding in Organometallic Crystals. 2. C-H...O Hydrogen Bonds in Bridged and Terminal First-Row Metal Carbonyls (237 citations)	<i>J. Am. Chem. Soc.</i> , 1995 , 117, 3156-3166.
4	Kumar Biradha , R. E. Edwards, G. J. Foulds, W. T. Robinson, <u>G. R. Desiraju</u>	(4-Dimethylaminopyridine) ₅ (Benzoic acid) ₃ (H ₂ O) ₁₀ – A 2-Dimensional Clathrate Hydrate (13 citations)	<i>J. Chem. Soc., Chem. Commun.</i> , 1994,
3	Kumar Biradha , C. V. K. Sharma, K. P. Selvam, L. Shimoni, H. L. Carrell, D. E. Zacharias and <u>G. R. Desiraju</u>	Solid State Supramolecular Assembly via C-H...O Hydrogen Bonds: Crystal Structures of the Complexes of 1,3,5-Trinitrobenzene with Dibenzylideneacetone and 2,5-Dibenzylidenecyclopentanone (38 citations)	<i>J. Chem. Soc., Chem. Commun.</i> , 1993 , 1473-1475.
2	Kumar Biradha and <u>M. Fujita</u>	Layered Materials by Design: 2D Coordination Polymeric Networks Containing Large Cavities/Channels” (9 citations)	<i>Crystal Design: Structure and Function</i> , ed. G. R. Desiraju, John Wiley Publishers, 2003 , Vol. 7, 211-239.
1	Kumar Biradha and <u>M. Fujita</u>	Molecular Self-Assemblies Through Coordination: Macrocycles, Catenanes, Cages, and Tubes (28 citations)	<i>Advances in Supramolecular Chemistry</i> ; Ed.: G.W. Gokel, JAI Press Inc.: 2000 , Vol. 6, 1-39.

Other Details:

Number of Ph. D. students guided: Completed: **16** On going: **7**

Number of M. Sc. students guided: Completed: **27** On going: **2**

At the undergraduate level: Prep Theory & Lab, Organic Chemistry in CY11001 and Lab (CY19001); Organic Chemistry-I (CY23003) and Lab, Organic Chemistry-II (CY20002), Biochemistry-II (CY33004); Organic Chemistry III (CY31003)

At the postgraduate level: Supramolecular Chemistry (CY61038); Principle of Organic Synthesis Laboratory; CY71002 Structure Analysis by Spectroscopic & Crystallographic Studies

Conferences Organized:

57. Crystal Engineering and Noncovalent Interactions: Contemporary Themes and Futuristic Developments, Crystal Engineering: Molecules to Supramolecules at COORG, Orange County, 22-25, Feb, **2009**.

Conveners: K. Biradha, P. Dastidar and J. N. Moorthy

58. Diamond Jubilee Symposium on Recent Trends in Chemistry (DJSRTC), October 21-23, **2011**, Department of Chemistry, Indian Institute of Technology Kharagpur. Conveners: K. Biradha and T. Pal

59. Chemistry: Synthesis, Structure & Dynamics, A conference on Crystal Engineering, December, 11-14, **2012**, COORG, Orange County, Karnataka.

60. ACS On Campus, November 25, **2013**, IIT, Kharagpur

61. University of Colombo, Sri Lanka (05-09-**2016** to 07-09-**2016**),: Organizing and participating in a conference "Ist South East Asia Conference on Crystal Engineering (SEACCE)"

62. 24th Congress and General Assembly of the International Union of Crystallography 21-28 August **2017**, HICC, Hyderabad, India. (Member of LOC).

63. 2nd International Conference on "Crystal Engineering: From Molecule to Crystal" (CEFMC2020, **Virtual**), Convener 19-20, June **2020**, IIT Kharagpur.

Invited talks and Chairs from IIT-KGP

64. Delivered a Talk at “Online Short-Term Course on Chemistry of Advanced Functional Materials (CAFM-2020)” 21– 25 Sept. **2020** on “Crystal Engineering: Fundamentals to Functional Materials” organized by Department of Chemistry, NIT, Srinagar.
65. Chaired “Microsymposium 11: Solid-state Reactions and Dynamics” at 16th Conference of Asian Crystallographic Association, **AsCA-2019**, 17-20 Dec **2019**, Singapore.
66. Delivered a talk at 16th Conference of Asian Crystallographic Association, **AsCA-2019**, 17-20 Dec Singapore on “Topochemical [2+2] Photo-polymerizations of Dienes in Crystalline Solids and Gels: Exploration of Functional Properties”
67. Delivered a talk at “Modern Trends in Inorganic Chemistry-XVIII” (**MTIC-XVIII**) on “Crystal Engineering of Porous Crystalline MOFs: Isorecticular Synthesis, Gas Sorption and Heterogeneous Catalysis” IIT Guwahati 11–14 December, **2019**
68. 1st International conference on “Crystal Engineering: From Molecule to Crystal”, March 30-31, **2019**, NIT Raipur, Invited talk on Crystal Engineering of Porous Frameworks for Gas Sorption and Catalysis
69. International Conference on Structural and Inorganic Chemistry-II (ICSIC-II)" March 18-19, **2019**, IISER Pune, India, invited talk on “Crystal Engineering of Porous Frameworks for Gas Sorption and Catalysis”
70. Cryst. Growth & Design Editorial Board Meeting, Newry, Maine, USA 24th-29th June, **2018**, participated as an associate editor of *Crystal Growth & Design*.
71. Gordon Research Conference, Crystal Engineering, Newry, Maine, USA 24th-29th June, 2018, participated as an associate editor of *Crystal Growth & Design*.
72. 24th Congress and General Assembly of the International Union of Crystallography 21-28 August **2017**, HICC, Hyderabad, India. Chair Person of MS-056: Direct observation of reactions and labile species within porous Frameworks.
73. *Crystal Growth & Design* Editorial board meeting and GRC on Crystal Engineering, Stowe Conference Center Stowe, VT, *United States of America* (26-06-**2016** to 01-07-**2016**).

74. Crystals for Every One at Department of Chemistry, Jhargram Raj College West Bengal, India (29-11-**2016** to 29-11-**2016**)
75. Crystal Engineering: From Crystals to Functional Materials at NIT, Agartala, Tripura, India (08-12-**2016** to 09-12-**2016**)
76. 13th Asian Crystallographic Association Conference, ASCA-2015, 5th -8th December, **2015**, chair person of microsymposium MS-2: “Engineering of Crystalline and Non-crystalline Solids”
77. MTIC-XVI, 3rd-5th December, **2015**, Jadavpur University, Kolkata, given invited talk on “Coordination Polymers: Cation/Anion and Guest Exchange Studies and Solid State Reactivities”
78. Visited following Universities in China from 15th Jun to 8th July **2015** and gave talks on the theme of Crystal Engineering: From Structures to Properties
- i) Shantou University , Shantou, 16th June, 2015
 - j) South China Normal University, Guangzhou, 23rd June, 2015
 - k) Sun Yat-Sen University, Guangzhou, 25th June, 2015
 - l) Nanjing University, Nanjing, 26th June, 2015
 - m) Nankai University, Tianjing, 28th June, 2015
 - n) Beijing University of Technology, 29th June, 2015
 - o) Shanxi University, Tai Yuan, 1st July, 2015
 - p) Shanxi Normal University, Linfen, 2nd July, 2015.
79. Delivered two invited talks in “Science Academics Lecture Workshop on Supramolecular Assemblies: Synthesis and Applications”, Department of Chemistry, Guru Ghasidas Vishwavidyalaya, Bilaspur, 21-22 August, **2015**.
80. Invited talk on Crystal Engineering of Coordination Polymers and Solid State [2+2] Reactions, 27th January, **2015**, IIT, Kanpur.
81. ACSOC, Feb 11, **2015**, American Chemical Society on Campus at Sri Ramachandra University, Chennai, Delivered talks on “Basics in Scholarly Publishing: Peer Review-What It Is, How It Works, and Why It Matters! And Copyright and Ethics in Scholarly Communication”
82. ACSOC, Feb 10, **2015**, American Chemical Society on Campus at University of Madras, Chennai, Delivered talks on “Basics in Scholarly Publishing: Getting Started,

Peer Review-What It Is, How It Works, and Why It Matters! And Copyright and Ethics in Scholarly Communication”

83. Third China-India-Singapore Symposium in Crystal Engineering at IISc, Bangalore, 8th -10th December, **2014**. Given invited talk on “Crystal Engineering of Solid state [2+2] Reactions in Organic and Metal-organic Solids”
84. SCOMM-14: International Conference on Structural Chemistry of Molecules and Materials, 30th NOV – 2nd Dec, **2014**. Delivered invited talk on Crystal Engineering of Organic and Metal-Organic Functional Materials
85. ACSOC, American Chemical Society on Campus at Institute of Chemical Technology (ICT), Mumbai, Nov-21, **2014** Delivered talk on Basics in Scholarly Publishing: Getting Started, Peer Review What It Is, How It Works and Why it Matters”.
86. IUCR congress **2014**, August 5-12, Montreal, Canada, Chaired microsypmosia on “Hydrogen Bonding as a Crystal Engineering Design Tool”, MS35.
87. ICMAT **2013** Symposium X: Crystal Engineering of New Materials *invited talk* on “Crystal Engineering of Functional Materials” and *chaired a session*, 30 June to 5th July, **2013**, Singapore
88. Invited talk on “Crystal Engineering of Functional materials” *at* ACS on Campus at IACS, Kolkata, Oct-12, **2012**.
89. Gordon Research Conference on Crystal Engineering, 10-15th June, **2012**, Waterville Valley, New Hampshire, USA, invited talk presented in the Coordination Polymers session on Hydrogen Bonded Coordination Polymers and Gels: Guest, Anion, and Cation Exchange Dynamics
90. Indo-US Bilateral Meeting on the Evolving Role of Solid-State Chemistry in Pharmaceutical Science, **2012**, February 2-4, Heritage Village Resort & Spa, Manesar, Delhi, “Two Component Host Systems for Guest Inclusion”
91. Crystal forms@Bologna, **2012**, January 19-21, Bologna, Italy, “Synthon Interference: Co-crystals, Salts and Polymorphs”

92. IUCR congress **2011**, August 22-29, Madrid, Spain, Delivered a lecture on “Supramolecular Synthons in Crystal Engineering” in MS-17: Synthons: From Small to Macro Molecules
93. Chaired Keynote lecture, IUCR congress **2011**, August 22-30, Madrid, Spain. “Crystalline Molecular Flasks” by Makoto Fujita, University of Tokyo, Japan
94. IUCR journal commission meeting, August 19-21, **2011**, Madrid, Spain.
95. International Conference on the Chemistry of Organic Solid State (ICOSS-XX), SSCU, Bangalore, India, June 25-30, **2011**, “Crystal Engineering of Functional Materials”.
96. *Crystal Growth & Design* India Summit, IISc., Bangalore, Dec 2-3, **2010**; given a invited talk on “Interference and Template Effects in Crystal Engineering”
97. Chaired a Micro Symposium (MS-12) on “Crystal Growth and Engineering” at AsCA'**2010**, Busan, Korea 30th October to 3rd November.
98. First China-India-Singapore Symposium on Crystal Engineering at National University of Singapore, Singapore, 31st July to 2nd August, **2010**. Given a talk on Crystal Engineering with Acid, Amide and Pyridine Containing Molecules
99. Indo-Russian workshop on Structure and properties of organic and organometallic crystals: From fundamental research to advanced applications. “Design and Crystal Engineering in Organic and Metal-Organic Systems” at *Institute of Solid State Chemistry & Mechanochemistry SB RAS, Novosibirsk* during September 27-30, **2009**.
100. Indo-German Symposium in Supramolecular Chemistry, “Crystal Engineering in Assembling Molecules to Functional Supramolecular Architectures” at University of Delhi, 03, March, **2009**.
101. Crystal Engineering and Noncovalent Interactions: Contemporary Themes and Futuristic Developments, Crystal Engineering: Molecules to Supramolecules at COORG, Orange County, 22-25, Feb, **2009**.
102. Indo-US Bilateral Workshop on Pharmaceutical Co-crystals, “Crystal engineering with molecules containing multiple amide functionalities: interference of halogens,

- pyridine and carboxylic acid functionalities in amide-to-amide hydrogen bonds” at Mysore, India 08-11, Feb, **2009**.
103. “Crystal Engineering: Molecules to Network Materials at University of Hyderabad, 18, Nov, **2008**.
104. 6th One Day National Symposium in Chemistry, “Crystal Engineering: Molecules to Supramolecules at Indian Institute of Technology” Department of chemistry Kharagpur, 8th November, **2008**.
105. Chaired a Micro-symposium “MS7: Water Clusters in Molecular Crystals, coordination polymers and biological macromolecule” at **IUCR-2008**, Aug-24, Osaka, Japan.
106. Invited talk on “Crystal Engineering in Assembling Molecules To Functional Supramolecules” 18-Jun-**2008**, ICES, 1, Jurang Island, Singapore.
107. Invited talk on “Assembling Molecules To Functional Supramolecules”, 06-June-**2008**, Department of Chemistry, National University of Singapore.
108. 37th National Seminar on Crystallography, Department of Physics, Jadavpur University, Kolkata, February 6-8, **2008**. “Invited talk on Crystal engineering with amide and pyridine containing derivatives”.
109. Modern Trends in Inorganic Chemistry, MTIC-XII, Department of Chemistry, Indian Institute of Technology, Madras, Chennai 600036, India, December 6-8, **2007**. Invited Talk on “Crystal Engineering of Metal-Organic Frameworks Containing Amide Functionalities”
110. Singapore International Chemical Conference, Shangri-La Hotel, Singapore, December, 8-10, **2005**. Invited Talk on “Designing Metal-Organic Hybrid networks containing β -sheet hydrogen bonds and guest inclusion”
111. National Symposium on Chemistry: At The Inorganic and Organic Interphase, IIT, Guwahati, December, 6-7, **2004**; Invited Talk on “Designing Metal-Organic Hybrid Solids”

112. Discussion meeting on Intermolecular Interactions at Orange County, Coorg, Karnataka, November 30- December 3, **2003**, Invited talk on “Assembling Molecules via Non-covalent Interactions”

Conference presentations and Invited talks from other places:

(excluding presentations by coworkers):

11. CMCD4, “Computational Methods in Chemical Design: Molecular Modelling: Theory and Experiments”, Kloster Irsee, Germany, May 15-20, 1994.
 - Poster presented on “*Solid State Supramolecular Assembly via C-H...O Hydrogen Bonds*”.
12. MTIC-95, “Modern Trends in Inorganic Chemistry”, University of Hyderabad, Hyderabad-500 046, Aug 16-18, 1995.
 - Poster presented on “Hydrogen Bonding in Organometallic Crystals: Transition Metal Complexes Containing Amido Groups”.
13. Fifth Chemical Congress of North America, Special Topics in Physical Chemistry, November 11-15, 1997, Cancun, Mexico.
 - Oral Presentation on “Supramolecular Isomerism in Dianionic Salts of Pyromelliticacid”.
14. ESTAC, "Technology Day, 1997, November 17. The Delta Meadowvale Conference Centre, 6750 Mississauga Road, Mississauga, Ontario, Canada.
 - Poster presented on “Environmental Applications of Organic Clays”
15. ACA Meeting, Transactions Symposium: Crystal Engineering, July 18-23, 1998, Crystal City, Washington, DC, USA,
 - Talk on “Supramolecular Bilayer Architectures via Hydrogen Bonding Interactions: Lipid Membrane Mimics”
16. Gordon Conference on Organic Structures and Properties, September 1998, Fukuoka, Japan.
 - Poster presented on “Design of 1D-polymers Based On Transition Metal Atoms and Organic Ligands and Anions”.
17. 62nd Okazaki conference, January 1999, Okazaki, Japan.
 - Talk on “Supramolecular Synthesis of Clay Mimics with Affinity for Aromatic Guests”.
18. International Symposium on Molecular Design and Functionalities of Assembled Metal Complexes, November 30 –December 2, 1999, Kyoto, Japan.
 - Poster presented on “The Non-interpenetrated Square Grids of the Dimension 20x20 Å and 15x15 Å via Coordination”.
19. Dalton Discussion 3, Inorganic Crystal Engineering, University of Bologna, Italy, 9-11 September 2000.
 - Poster presented on “Coordination Polytubes with the Affinity for Guest Inclusion”]
20. ISMC: 26th International Symposium on Macrocyclic Chemistry, Fukuoka, Japan, 15-20, July, 2001.

- Poster presented on “A Dynamic 3D-coordination network with the ability to exchange guest Molecules In crystal-to-crystal manner”
12. International Symposium on Cooperative Phenomena of Assembled Metal Complexes: November 15-17, 2001, Osaka, Japan
- Poster presented on “A Spring Like 3D-Coordination Network Containing (10,3)-b Configuration”