CURRICULUM VITAE

Name: **Kumar Biradha**
Date of Birth: 15 June, 1968, Relangi, Andhra Pradesh
Nationality: Indian
Address: Department of Chemistry
Indian Institute of Technology
Kharagpur-721302
India
email: kbiradha@chem.iitkgp.ernet.in
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/$NaBH_4$ 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 Disorption 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: **11** On going: **8**

Number of M. Sc. students guided: Completed: **20** 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:

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, Karanataka**.**

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

5. University of Colombo, Sri Lanka (05-09-**2016** to 07-09-**2016**),: Organinizing 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 Auguest **2017**, HICC, Hyderabad, India. (Member of LOC).

Invited talks and Chairs from IIT-KGP

Ist International

7. Ist 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

8. 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"
9. Cryst. Growth & Design Editorial Board Meeting, Newry, Maine, USA 24th-29th June, **2018**, participated as an associate editor of *Crystal Growth & Design*.
10. Gordon Research Conference, Crystal Engineering, Newry, Maine, USA 24th-29th June, 2018, participated as an associate editor of *Crystal Growth & Design*.
11. 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.
12. 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**).
13. Crystals for Every One at Department of Chemistry, Jhargram Raj College West Bengal, India (29-11-**2016** to 29-11-**2016**)
14. Crystal Engineering: From Crystals to Functional Materials at NIT, Agartala, Tripura, India (08-12-**2016** to 09-12-**2016**)
15. 13th Asian Crystallographic Association Conference, ASCA-2015, 5th -8th December, **2015**, chair person of microsymposium MS-2: "Engineering of Crystalline and Non-crystalline Solids"
16. 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"
17. 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.

18. 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**.

19. Invited talk on Crystal Engineering of Coordination Polymers and Solid State [2+2] Reactions, 27th January, **2015**, IIT, Kanpur.

20. 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"

21. 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"

22. 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"

23. 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

24. 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".

25. IUCR congress **2014**, August 5-12, Montreal, Canada, Chaired microsymposia on "Hydrogen Bonding as a Crystal Engineering Design Tool", MS35.

26. 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

27. Invited talk on "Crystal Engineering of Functional materials" *at* ACS on Campus at IACS, Kolkata, Oct-12, **2012**.

28. 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

29. 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, "T*wo* Component Host Systems for Guest Inclusion"

30. Crystal forms@Bologna, **2012**, January 19-21, Bologna, Italy, "Synthon Interference: Co-crystals, Salts and Polymorphs"

31. 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

32. Chaired Keynote lecture, IUCR congress **2011**, August 22-30, Madrid, Spain. "Crystalline Molecular Flasks" by Makoto Fujita, University of Tokyo, Japan

33. IUCR journal commission meeting, August 19-21, **2011**, Madrid, Spain.

34. International Conference on the Chemistry of Organic Solid State (ICOSS-XX), SSCU, Bangalore, India, June 25-30, **2011**, "Crystal Engineering of Functional Materials".

35. *Crystal Growth & Design* India Summit, IISc., Bangalore, Dec 2-3, **2010**; given a invited talk on "Interference and Template Effects in Crystal Engineering"

36. Chaired a Micro Symposium (MS-12) on "Crystal Growth and Engineering" at AsCA'**2010**, Busan, Korea 30th October to 3rd November.

37. 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

38. 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**.

39. Indo-German Symposium in Supramolecular Chemistry, "Crystal Engineering in Assembling Molecules to Functional Supramolecular Architectures" *at* University of Delhi, 03, March, **2009**.

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

41. 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**.

42. "Crystal Engineering: Molecules to Network Materials *at* University of Hyderabad, 18, Nov, **2008**.

43. 6th One Day National Symposium in Chemistry, "Crystal Engineering: Molecules to Supramolecules *at* Indian Institute of Technology" Department of chemistry Kharagpur, 8th November, **2008**.

44. Chaired a Micro-symposium "MS7: Water Clusters in Molecular Crystals, coordination polymers and biological macromolecule" at **IUCR-2008**, Aug-24, Osaka, Japan.

45. Invited talk on "Crystal Engineering in Assembling Molecules To Functional Supramolecules"18-Jun-**2008**, ICES, 1, Jurang Island, Singapore.

46. Invited talk on "Assembling Molecules To Functional Supramolecules", 06-June-**2008**, Department of Chemistry, National University of Singapore.

47. 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".

48. 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"

49. 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"

50. National Symposium on Chemistry: At The Inorganic and Organic Interphase, IIT, Guwahati, December, 6-7, **2004**; Invited Talk on "Designing Metal-Organic Hybrid Solids"

51. 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 Pyromelliticacid**"**.**
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

Overall 9650 citations with h-index of 49,

Names of corresponding author(s) are underlined

191	K. Nath, K. Bhunia, D. Pradhan, **Kumar Biradha**	MOF-templated Cobalt Nanoparticles Embedded in Nitrogen-doped Porous Carbon: A Bifunctional Electrocatalyst for Overall Water Splitting	*Nanoscale Advances* **2019**, *000.*
190	S.K. Konavarapu, A. Goswami, A. G. Kumar, S. Banerjee and **Kumar Biradha**	MOFs containing linear bis-pyridyl-tris-amide and angular carboxylates: exploration of proton conductivity, water vapor and dye Sorptions	*Inorg. Chem. Front.* **2019**, *6,* 184-191.
189	K. Maity, D. Mukherjee, M. Sen and **Kumar Biradha**	Fluorescent Dye-Based Metal−Organic Framework Piezochromic and Multicolor-Emitting Two-Dimensional Materials for Light-Emitting Devices	*ACS Applied Nano Materials*, **2019**, *2*, 1614-1620.
188	D. Das and **Kumar Biradha**	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	*Aus. J. Chem.* **2019**, 0000.
187	A. Goswami, M. Garai and **Kumar Biradha**	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	*Cryst. Growth & Des.* **2019**, *19*, 2175-2188.
186	S. K. Konavarapu and **Kumar Biradha**	Luminescent Triazene Based Covalent Organic Frameworks Functionalized with Imine and Azine: N_2 and H_2 Sorption and Efficient Removal of Organic Dye	*Cryst. Growth & Des.* **2019**, *19*, 362-368.
185	A. Dey and **Kumar Biradha**	Photochemical Reactions in Supramolecular Assemblies of Gels: Dimerizations and Polymerizations via Pericyclic Reactions	*Israel Journal of Chemistry,* **2019,**19, 0000
184	K. Nath, M. Chandra, D. Pradhan and **Kumar Biradha**	Supramolecular Organic Photocatalyst Containing a Cubanelike Water Cluster and Donor−Acceptor Stacks: Hydrogen Evolution and Dye Degradation under Visible Light	*ACS Appl. Mater. Interfaces* **2018**, *10*, 29417-29424.
183	A Dey, A. Garai, V. Gude and **Kumar Biradha**	Thermochromic, Solvatochromic, and Piezochromic Cd(II) and Zn(II) Coordination Polymers: Detection of Small Molecules by Luminescence Switching from Blue to Green	*Cryst. Growth & Des.* **2018**, *18*, 6070-6077.
182	D. Das, S. Roy and **Kumar Biradha**	Crystal Engineering with Isosteric Triether and Triamine linked Aromatic Tri-carboxylic Acids: Iso-structurality and Synthons	*New J. Chem.* **2018**, *42*, 19953-19962.

		Interplay in their Co-crystals and Salts with Bis(pyridyl) Derivatives	
181	V. Gude, D. Rout, M. K. Panigrahi **Kumar Biradha**	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	*Photochem. Photobiol. Sci.* **2018***, 17, 1386-1395.*
180	K. Maity, C. K. Karan and **Kumar Biradha**	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)	*Chem. Eur. J.* **2018**, *2*, 10988-10993.
179	S. K. Konavarapu, A. Dey, A. Garai, and **Kumar Biradha**	Self-Sorting of Metal–Organic Polymeric Assemblies in Gels: Selective Templation and Catalysis of Homodimers	*Chem. Eur. J.* **2018**, *24*, 5760-5764.
178	D. Das and **Kumar Biradha**	Luminescent Coordination Polymers of Naphthalene Based Diamide with Rigid and Flexible Dicarboxylates: Sensing of Nitro Explosives, Fe(III) Ion, and Dyes	*Cryst. Growth & Des.* **2018**, *18*, 3683-3692.
177	A. Garai, S. Mukherjee, S. Ray and **Kumar Biradha**	Tuning Emission Properties via Aromatic Guest Inclusion in Organic Salts Composed of 4,4'-dinitro-2,2',6,6'-tetracarboxybiphenyl and Acridine	*Cryst. Growth Des.* **2018**, *18*, 581-586.
176	K. Maity, K. Bhunia, D. Pradhan, **Kumar Biradha**	Co(II) Doped Cd-MOF as an Efficient Water Oxidation Catalyst: Doubly Interpenetrated Boron Nitride Network with the Encapsulation of Free Ligand Containing Pyridine Moieties	*ACS Appl. Mater. Interfaces* **2017**, *9*, 37548-37553.
175	M. Garai and **Kumar Biradha**	Water Resisting and Transparent Plastic Films from Functionalizable Organic Polymers: Coordination Polymers as Templates for the Solid State [2+2] Photopolymerization Reactions	*Chem. Eur J.* **2017**, *23*, 273-277.
174	D. Das and **Kumar Biradha**	Metal-Organic Gels of Silver Salts with a α,β-Unsaturated Ketone: Influence of Anions and Solvents on Gelation	*Inorg. Chem. Front.* **2017**, *4*, 1365-1373.
173	A. Dey, and **Kumar Biradha**	Anion and Guest Directed Tetracyclic Macrocycles of Ag5L4 and Ag6L4with an Arc-shaped Ligand Containing Pyridine and Benzimidazole Units: Reversal of Anion Selectivity by Guest	*Cryst. Growth Des.* **2017**, *17*, 5629-5633.
172	R. Mandal, M. Garai and **Kumar Biradha**	Hydrogen bonded 2-fold interpenetrated diamondoid networks for the solid state [2+2] polymerizations of crisscrossed olefins: Molecular connections *vs* Supramolecular	*Cryst. Growth Des.* **2017**, *17*, 5061-5064.

		connections	
171	K. Nath and **Kumar Biradha**	2D-Coordination Polymers with 'X' Shaped Cavities as Adsorbents of Oxoanion Pollutants and Toxic Dyes	*Cryst. Growth Des.* **2017**, *17*, 4437-4444.
170	A. Dey, D. Bairagi and **Kumar Biradha**	MOFs with PCU Topology for the Inclusion of One-dimensional Water Cages: Selective Sorption of Water Vapour, CO_2 and Dyes and Luminescence Properties	*Cryst. Growth Des.* **2017**, *17*, 3885-3892.
169	M. Garai and **Kumar Biradha**	One-dimensional Coordination Polymers of Bis-(3-pyridyl-acrylamido)ethane: Influence of Anions and Metal Ions on Their Solid State [2+2] Photochemical Polymerization and Dimerization Reactions	*Cryst. Growth Des.* **2017**, *17*, 925-932.
168	A Dey and **Kumar Biradha**	Tetracyclic macrocycles of M_5L_4 and M_6L_4	*Acta Cryst.* **2017**, *A73*, C976.
167	K Maity and **Kumar Biradha**	CoII-doped metal–organic materials as efficient water oxidation catalysts	*Acta Cryst.* **2017**, *A73*, C892.
166	A Garai and **Kumar Biradha**	Tuning photophysical properties via guest inclusion in an organic salt	*Acta Cryst.* **2017**, *A73*, C723.
165	M Garai and **Kumar Biradha**	Functionalizable organic polymers: coordination polymers as templates for solid-state [2+2] reaction	*Acta Cryst.* **2017**, *A73*, C977.
164	R Mandal and **Kumar Biradha**	Solid-State [2+2] Polymerization of a Bis-Olefinic molecule and luminescence property	*Acta Cryst.* **2017**, *A73*, C975
163	KSN Konavarapu and **Kumar Biradha**	Silver gelation-promoted solid-state [2+2] reaction of unsymmetrical olefin-containing ligand	*Acta Cryst.* **2017**, *A73*, C527.
162	D Das and **Kumar Biradha**	Supramolecular metallogelator: the pivotal role of aromatic solvents and anions	*Acta Cryst.* **2017**, *A73*, C528.
161	K. Nath and **Kumar Biradha**	Separation of xylene isomers through selective inclusion: 1D→2D, 1D→3D and 2D→3D assembled coordination polymers via β-sheets	*Cryst. Growth Des.* **2016**, *16*, 5606-5611.
160	A. Dey, S. K. Konavarapu, H. S. Sasmal and **Kumar Biradha**	Porous Coordination Polymers Containing Pyridine 3,5 bis (5- azabenzimidazole): Exploration of Water Sorption, Selective Dye Adsorption and Luminescent Properties	*Cryst. Growth Des.* **2016**, *16*, 5976-5984.
159	K. S. Narayana Konavarapu and Kumar Biradha	Coordination Polymers of M_2L_2 Macrocycles and M_3L_2 Podands Containing Tris (pyridyl) Tripodal Amide: Anion Bridging, Ag···Ag	*ChemistrySelect* **2016**, *1*, 2299-2306**.**

		Interactions and Solid State Luminescence	
158	A. Garai, S. Sasmal and **Kumar Biradha**	Diversity in the Coordination Polymers of 2-(2-(pyridin-4/3- yl)vinyl)-1H-benzimidazole and Dicarboxylates/Disulfonates: Photochemical Reactivity and Luminescence Studies	*Cryst. Growth Des.* **2016**, *16*, 4457-4466.
157	K. Maiti and **Kumar Biradha**	Role of Anions in the Formation of Multidimensional Coordination Polymers: Selective Separation of Anionic Toxic Dyes by 3D-Cationic Framework and Luminescent Properties	*Cryst. Growth Des.* **2016,** *16*, 3002-3013.
156	M. Garai, K. Maji, V. V. Chernyshev and **Kumar Biradha**	Interplay of Pyridine Substitution and Ag(I)···Ag(I) and Ag(I)···π Interactions in Templating Photochemical Solid State [2 + 2] Reactions of Unsymmetrical Olefins Containing Amides: Single-Crystal-to-Single-Crystal Transformations of Coordination Polymers	*Cryst. Growth Des.* **2016,** *16*, 550-554.
155	K. Banerjee and **Kumar Biradha**	Two-dimensional coordination polymers and metal–organic gels of symmetrical and unsymmetrical dipyridyl *β*-diketones: luminescence, dye absorption and mechanical properties	*New J. Chem*., **2016**, *40*, 1997-2006.
154	M. Garai and **Kumar Biradha**	Exploration and exploitation of homologous series of bis-(acrylamido)alkanes containing pyridyl and phenyl groups: *β*-sheet *versus* two-dimensional-layers in solid-state photochemical [2 + 2] reactions	*IUCrJ,* **2015**, *2*, 523-533.
153	K. Maity, T. Kundu, R. Banerjee and **Kumar Biradha**	One-dimensional water cages with repeat units of $(H_2O)_{24}$ resembling pagodane trapped in a 3D coordination polymer: proton conduction and tunable luminescence emission by adsorption of anionic dye	*CrystEngCom*, **2015**, *17*, 4439–4443.
152	D. Das, G. Mahata, A. Adhikary, S. Konar and **Kumar Biradha**	Structural Adaptation of Ni_4O_4 Units to Form Cubane, Open Dicubane, Dimeric Cubane and One-dimensional Polymeric Cubanes: Magnetostructural Correlation of Ni_4 Clusters	*Cryst. Growth Des.* **2015,** *15***,** 4132−4141.
151	K. Banerjee, S. Roy, M. Kotal and **Kumar Biradha**	Coordination Polymers Containing Tubular, Layered, and Diamondoid Networks: Redox, Luminescence, and Electron Paramagnetic Resonance Activities	*Cryst. Growth Des.* **2015**, *15***,** 5604−5613.
150	**Kumar Biradha**	China–India–Singapore Expanded to South and East Asia (EDITORIAL).	*Cryst. Growth & Design.* **2015**, *15*, 1.
149	A. Dey, S. Bera,	Co-crystals and Salts of Pyridine-3,5-bis(1-	*Cryst. Growth*

	Kumar Biradha	methyl-benzimidazole-2-yl) with Pyromellitic Acid: Aromatic Guest Inclusion and Separation via Benzimidazole–carboxylic acid Heterosynthon	*& Design.* **2015**, *15*, 318.
148	M. Garai, **Kumar Biradha**	Coordination Polymers of Organic Polymers *via* Photopolymerization in Single Crystals: Two-dimensional Hydrogen Bonding Layers with Amazing Shock Absorbing Nature (1 citation)	*Chem Comm.* **2014**, *50*, 3568-3570.
147	S. Roy, A. Katiyar, S. Mondal, S. Ray, **Kumar Biradha**	Multifunctional White Light-Emitting Metal-Organic Gels with a Sensing Ability of Nitrobenzene	*ACS Applied Materials & Interfaces* **2014**, *6*, 11493-11501.
146	G. Mukherjee, **Kumar Biradha**	Modulation of breathing behavior of layered coordination polymers via a solid solution approach: the influence of metal ions on sorption behavior (4 citations)	*Chem Comm.* **2014**, *50*, 670-672.
145	G. Mukherjee, **Kumar Biradha**	Dynamic Layered Coordination Polymer: Adsorption and Separation of Aromatics and I_2 by Single Crystals	*Cryst. Growth & Design.* **2014**, *14*, 3696-3699.
144	G. Mukherjee, **Kumar Biradha**	1D, 2D and 3D coordination polymers of 1,3-phenylene diisonicotinate with Cu(I)/Cu(II): Cu_2I_2 building block, anion influence and guest inclusions	*CrystEngComm* **2014**, *16*, 4701-4705.
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142	K. Banerjee, S. Roy, **Kumar Biradha**	Design, synthesis and Photoluminescence Properties of 1D, 2D and 3D Coordination Polymers: Anion Assisted Argentophillic Interactions as Building Blocks	*Cryst. Growth & Design.* **2014**, *14*, 5164-5170.
141	G. Mukherjee, **Kumar Biradha**	3D, 2D and 1D networks via N-H· · ·O and N-H· · ·N hydrogen bonding by the bis-amide analogues: Effect of chain lengths and odd-even spacers	*J. Chem. Sci.,* **2014**, *126*, 1285-1290.
140	D. R. Mal, J. Roy and **Kumar Biradha**	Regiodivergent and short total synthesis of calothrixins	*Org. Biomol. Chem.* **2014**, *12*, 8196-8203.
139	M. Garai, R. Santra, **Kumar Biradha**	Tunable Plastic Films of Crystalline Polymer by Single Crystal-to-Single Crystal Photopolymerization of a Diene: Self Templating and Shock Absorbing Two-dimensional Hydrogen Bonding Layers (11 citations)	*Angew. Chem. Int. Ed.* **2013**, *52*, 5548-5551.

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137	R. Santra, M. Garai, D. Mondal and **Kumar Biradha**	Anion Influence in Directing and Altering the Stereo Chemistry of the Double [2+2] Reaction of bis-pyridyl Dienes in their Silver Complexes: A Green Synthetic Route (7 citations)	*Chem. Eur. J.* **2013**, *19*, 489-493.
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135	Avishek Dey, Sumit K. Mandal and **Kumar Biradha**	Metal–organic gels and coordination networks of pyridine-3,5-bis(1-methyl-benzimidazole-2-yl) and metal halides: self sustainability, mechano, chemical responsiveness and gas and dye sorptions (2 citations)	*CrystEngComm* **2013**, *15*, 9769-9778.
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116	R. Santra and **Kumar Biradha**	Solid state double [2 + 2] photochemical reactions in the co-crystal forms of 1,5-bis(4-pyridyl)-1,4-pentadiene-3-one: establishing mechanism using single crystal X-ray, UV and ^{1}H NMR (19 citations)	*CrystEngComm* **2011**, *13*, 3246-3257.
115	G. Mukherjee and **Kumar Biradha**	Odd-Even Effects: Diamondoid and Quartz Networks by Bis(pyridylcarboxamido)alkanes Containing Alkyl Chains with an Odd Number of -(CH_2)- Groups as Spacers (7 citations)	*Cryst. Growth & Design.* **2011**, *11*, 924-929.
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113	S. Samai, J. Dey and **Kumar Biradha**	Amino acid based low-molecular-weight tris(bis-amido) organogelators (18 citations)	*Soft Matter* **2011**, *7*, 2121-2126.
112	L. Rajput and **Kumar Biradha**,	Crystalline forms of 1,3,5-benzene-tri(pyridinyl)carboxamides: Isolated site hydrates as polymorphs and solvates (2 citations)	*J. Mol. Str.*, **2011**, *991*, 97-102
111	L. Rajput, V. V. Chernyshev and **Kumar Biradha**,	Assembling Triple Helical Amide-to-Amide Hydrogen Bonded Columns of tris(4-halophenyl)Benzene-1,3,5-tricarboxamides into Porous Materials via Halogen···Halogen interactions (21 citations)	*Chem.Commun.* **2010**, *46*, 6530.
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109	R. Santro and **Kumar Biradha**	Nitrate Ion Assisted Argentophilic Interactions as a template for Solid State [2+2] Photo Dimerization of pyridyl acrylic acid, its methyl ester and acrylamide (27 citations)	*Crystal Growth & Design* **2010**, *10*, 3315-3320.
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102	S. Roy, G. Mahata and **Kumar Biradha**	Cocrystal and Salts of 2,2',6,6'-Tetracarboxybiphenyl with Bis(pyridyl)Derivatives: Eight-fold Interpenetrated Diamondoid and Layered Networks (34 citations)	*Crystal Growth & Design,* **2009**, *9*, 5006-5008.
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99	**Kumar Biradha**, A. Ramanan and J. J. Vittal	Coordination Polymers *versus* Metal Organic Frameworks (77 citations)	*Crystal Growth & Design*, **2009**, *9*, 2969-2970.
98	L. Rajput and **Kumar Biradha**	Robust Hydrogen Bonding Synthon in One-dimensional and Two-dimensional Coordination Polymers of Pyridine Appended Reverse Amides and Amides (25 citations)	*CrystEngComm*, **2009**, *11*, 1220-1222.
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45	**Kumar Biradha**, Y. Hongo and M. Fujita	Open Square Grid Coordination Polymers of the Dimension 20x20 Å: Remarkably Stable and Crystalline Even after Guest Removal (291 citations)	*Angew. Chem., Int. Ed. Engl.* **2000**, *39*, 3843-3845.
44	**Kumar Biradha** and M. Fujita	Coordination Polymers Containing Square Grids of the Dimension 15x15 Å (99 citations)	*J. Chem. Soc., Dalton Trans.,* **2000**, 3805-3810. (66 citations)
43	X.-H. Bu, H. Morishita, K. Tanaka, **Kumar**	A Spontaneously Resolved Chiral Molecular Box: A Cyclic Tetra Nuclear Zn^{II} Complex with DPTZ (DPTZ = 3,6-Di-2-pyridyl-1,2,-4-	*Chem. Commun.* **2000**, 971-972.

	Biradha, S. Furusho and M. Shionoya	5-tetrazine) (74 citations)	
42	S.-Y. Yu, T. Kusukawa, **Kumar Biradha** and M. Fujita	Hydrophobic Assembling of a Coordination Nanobowl into a Dimeric Capsule Which can Accommodate up to Six Large Organic Molecules (109 citations)	*J. Am. Chem. Soc,* **2000**, *122*, 2665-2666.
41	**Kumar Biradha**, V.M. Hansen, W.K. Leong, R.K. Pomeroy and M.J. Zaworotko	Steric and Electronic Influences in $Os_3(CO)_{11}PR_3$ Structure (27 citations)	*J. Clust. Sci.*, **2000**, *11*, 285-306.
40	M. Aoyagi, **Kumar Biradha** and M. Fujita	Formation of Two, One, and Zero-Dimensional Coordination Assemblies from Cd(II) Ion and 4,4'-bipyridine (41 citations)	*Bull. Chem. Soc. Jpn.* **2000**, 1369-1373.
39	**Kumar Biradha** and M. Fujita	Encapsulation of Two Types of Chloroform Dimers in the Cavities of a Coordination Polymer (1 citations)	*Chem. Let.* **2000**, 350-351. (1 citation)
38	**Kumar Biradha**, M. Aoyagi and M. Fujita	Coordination Polytubes with the Affinity for Guest Inclusion (51 citations)	*J. Am. Chem. Soc.* **2000**, *122*, 2397-2398.
37	**Kumar Biradha**, M.B. Peori, K. Vaughan and M.J. Zaworotko	Crystal Structures of a series of 3,8-di[-2-aryl-1-azenyl]-1,3,6,8-tetraazabicyclo[4.4.1]undecanes (10 citations)	*J. Chem. Crystallogr.,* **1999**, *29*, 145-156.
36.	M. Aoyagi, **Kumar Biradha** and M. Fujita	Pd(II)- and Pt(II)-Linked Tetranuclear Complexes as Assembly Units for Higher Ordered Structures (23 citations)	*Bull. Chem. Soc. Jpn.* **1999**, *72*, 2603-2606.
35	C. J. Matthews, K. Avery, Z. Xu, L. K. Thompson, L. Zhao, D. O. Miller, M. J. Zaworotko, **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 (121 citations)	*Inorganic Chemistry*, **1999**, *38*, 5266-5276.
34	A. McAuley, S. Subramanian, M. J. Zaworotko 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 $[M(H_2L_1)]X_4$ ($M = Cu^{2+}$, Ni^{2+}), $[Cu_2(L_1)]X_4$, and $[CuNi(L_1)]X_4$ ($X = ClO_4^-$) and the X-ray	*Inorganic Chemistry*; **1999**, *38*, 5078-5085.

		Crystal Structure (10 citations)	
33	**Kumar Biradha**, K. V. Domasasevitch, C. Hogg, B. Moulton, K. N. Power and M. J. Zaworotko	Interpenetrating Covalent and Noncovalent Nets in the Crystal Structures of [M(4,4'-bipyridine)2$(NO_3)_2$].3$C_{10}H_8$ (M = Co, Ni)	*Crystal Engineering*, **1999**, *2*, 37-45.
32	E. Kiehlmann, **Kumar Biradha**, K. V. Domasevitch and M.J. Zaworotko	Crystal structures of dihydroquercetin 3-acetate and dihydroquercetin 3'4',7-tetraacetate: hydrogen bonding in 5-hydroxyflavanones(7 citations)	*Can. J. Chem.* **1999**, *77*, 1436-1443.
31	C. M. Vogels, H. L. Wellwood, T. L. Hennigar, **Kumar Biradha**, M. J. Zaworotko, and S. A. Westcott	Reactions of Aminoboron Compounds with Palladium and Platinum Complexes (20 citations)	*Can. J. Chem.* **1999**, *77*, 1196-1207.
30	M. Aoyagi, **Kumar Biradha** and M. Fujita,	Quantitative Formation of Coordination Nanotubes Templated by Rodlike Guests (224 citations)	*J. Am. Chem. Soc.* **1999**, *121*, 7457-7458.
29	**Kumar Biradha**, K.V. Domasevitch, B. Moluton, C. Seward and M.J. Zaworotko	Covalent and Noncovalent interpenetrating planar networks in the crystal structure of {[Ni(4,4'-bipyridine)$_2$$(NO_3)_2$].2pyrene}$_n$ (147 citations)	*Chem. Commun.* **1999**, 1327-1328.
28	C.J. Matthews, Z. Xu, S.K. Mandal, L.K. Thompson, **Kumar Biradha**, K. Poirier and M.J. Zaworotko	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 (31 citations)	*Chem. Commun.* **1999**, 347-348.
27	**Kumar Biradha**, H. Jenkins, I.R. Pottie, C.V.K. Sharma, K. Vaughan and M.J. Zaworotko	Crystal structure of 1,3-di-2-[(4-methoxyphenyl)-1-diazenyl]imidazolidine (3 citations)	*J. Chem. Crystallogr.*, **1999**, *29*, 1037-1041.
26	**Kumar Biradha**, D. Dennis, V.A. MacKinnon, C. Seward, M.J. Zaworotko	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	*Supramolecular Chemistry*, **1999**, 115-132.

		Publishers, Dordrecht, The Netherlands. (7 citations)	
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20	R. Atencio, **Kumar Biradha**, T.L. Hennigar, K.M. Poirier, K.N. Power, C.M. Seward, N.S. White and M.J. Zaworotko	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)	*Crystal Engineering*, **1998**, *1*, 203-212.
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16	**Kumar Biradha** and M.J. Zaworotko	A Supramolecular Analogue of Cyclohexane Sustained by Aromatic C-H···π Interactions: Complexes of 1,3,5-trihydroxybenzene with Substituted Pyridines (98 citations)	*J. Am. Chem. Soc.* **1998**, *120*, 6431-6432.
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13	**Kumar Biradha**, A. Nangia, G.R. Desiraju, 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 (24 citations)	*J. Mat. Chem.* **1997**, 1111-1122.
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