

CURRICULUM VITAE

Name: Manish Bhattacharjee

Born: February 5, 1963

Permanent Position

2007- present: Professor Indian Institute of Technology, Kharagpur
2002-2007: Associate Professor Indian Institute of Technology, Kharagpur
1995-2002: Assistant Professor Indian Institute of Technology, Kharagpur
1990-1994: Lecturer Indian Institute of Technology, Kharagpur

Professional Experience

1997-1998 Humboldt Fellow University of Göttingen, Germany
1989-1990 Research Associate North Eastern Hill University, Shillong, India

Education

1984-1989 Doctor of Philosophy North Eastern Hill University, Shillong, India
1982-1984 Master of Science North Eastern Hill University, Shillong, India
1980-1982 B.Sc (Hons) St. Anthony's College (NEHU), Shillong, India

Administrative Experience

September 2007 to October 2013 President, Technology Students' Gymkhana
April 2015 to July 2017 Dean, Students' Affairs
July 2017 to June 2020 Head, Department of Chemistry

Research Highlights

Broad Area: Synthetic Inorganic Chemistry, Metalloorganic Gels, & Catalysis
Specific Area: Synthesis, Structure & Catalytic Properties of Mono-, Bi- & Trimetallic Compounds and Synthesis of Low Molecular Weight Geletors and Mtallogenic Gels and their Properties

Publications: Journals: 75

Book Chatpter: 01

Citations: 1000+

Supervision: Completed: 20 Ph. D.; 50 M. Sc.; Ongoing: 3 Ph. D. 2 M. Sc.

Research Grant: DST, CSIR since 1990.

Teaching

Theory: General Chemistry I, Structure and bonding of inorganic complexes, Organometallic & Bioinorganic Chemistry, Catalysis.

Laboratory: General Experiments I, Inorganic Laboratory

Awards & Honors

Alexander Von Humboldt Fellowship

Academic Involvement

Life Member: Chemical Research Society of India

Reviewer: Inorg. Chem. ACS Applied Materials, Org. Lett.; Appl. Polymn. Sci. and others

LIST OF PUBLICATION

1. Monoallylation and Benzoylation of Dicarboxyl Compounds with Alcohols Catalysed by a Cationic Cobalt(III) Compound
M. C. Sau, S. Mandal, M. Bhattacharjee
RSC Adv. **2021**, *11*, 9235
2. Addition of 1,3-Dicarbonyl Compounds to Terminal Alkynes Catalyzed by a Cationic Cobalt(III) Complex
M. C. Sau, M. Bhattacharjee
RSC Adv. **2020**, *10*, 36014
3. A Copper Metal Organic Hydrogel as a Catalyst for SO₂ and CO₂ Fixation under Ambient Conditions
C. K. Karan, M. Bhattacharjee
Eur. J. Inorg. Chem. **2019**, 3605.
4. A Self Healing Metal Organic Hydrogel for All Solid Flexible Supercapacitor
C. K. Karan, S. Mallick, C. R. Raj, M. Bhattacharjee
Chem. Eur. J. **2019**, *25*, 14775-14779.
5. Two Iron Complexes as Homogeneous and Heterogeneous Catalysts for the Chemical Fixation of Carbon Dioxide
C. K. Karan, M. Bhattacharjee
Inorg. Chem. **2018**, *57*, 5649.
6. Copper Catalyzed Regioselective N-Alkynylation of Pyrazoles and Evaluation of the Anticancer Activity of Ethynyl-Pyrazoles
M. C. Sau, Y. Rajesh, M. Mandal, M. Bhattacharjee
ChemistrySelect, **2018**, *3*, 3511.
7. Mercury Based Drug in Ancient India: The Red Sulfide of Mercury (Rasasindur) in Nanoscale
P. Mukhi, S. S. Mahapatra, M. Bhattacharjee, K. K. Ray, T. S. Muraleedharan, A. Arun, A. Sathyavathi, R. R. Juluri, P. V. Satyam, A. K. Panda, A. Biswas, S. Nayak, S. Bojja, S. Pratihari, S. Roy

- J. Ayurveda Integr. Med.* **2017**, 8, 93.
8. Synthesis, Structure and Magnetic Properties of Trimetallic Coordination Polymers of Cobalt and Copper
D. Das, M. Bhattacharjee
Eur. J. Inorg. Chem. **2017**, 2828.
 9. [(*para*-cymene)Ru(dppp)Cl][PF₆] Catalyzed Stereospecific Synthesis of O-Dienyl Esters and Evaluation of the Anti-cancer Activity of a Long Chain Fatty Acid O-Dienyl Ester
R. K. Jena, Y. Rajesh, M. Mandal, M. Bhattacharjee
Eur. J. Org. Chem. **2017**, 1514.
 10. A Copper(II) Metal – Organic Hydrogel as Multifunctional Precatalyst for CuAAC Reaction and Chemical Fixation of CO₂ Under Solvent Free Condition
C. K. Karan, M. C. Sau, M. Bhattacharjee
Chem. Commun. **2017**, 53, 1526.
 11. Heterotrimetallic Coordination Polymers for Dye Adsorption and Desorption
D. Das, C. Karan, M. Bhattacharjee
Polyhedron, **2017**, 124, 51.
 12. Ruthenium-Catalyzed Addition of Carboxylic Acids to Propargylic Alcohols: An Easy Route to O-Dienyl Esters and Their Tandem Atom-Transfer Radical Polymerization
R. K. Jena, U. K. Das, A. Ghorai, M. Bhattacharjee
Eur. J. Org. Chem. **2016**, 6015.
 13. Induction of Chirality from Ligand to the Supramolecular Helical Packing in Mo(VI)-Ln(III) Heterobimetallic Complexes: Synthesis, Structure and Photoluminescence Properties
D. Das, D. Deb, D. Sadhukhan, M. Bhattacharjee
Polyhedron, **2016**, 105, 222.
 14. Ruthenium Catalyzed Atom Economical Stereo- and Regioselective Synthesis of Long-Chain Fatty Acid Enol Esters
Rajesh K. Jena, M. Bhattacharjee
Eur. J. Org. Chem. **2015**, 6734

15. Three-Dimensional Networks Containing Rectangular Sr₄ and Ba₄ Units: Synthesis, Structure, Bonding, and Potential Application for Ne Gas Separation
S. Mandal, S. Pan, D. Deb, S. Giri, S. Duley, S. Redenkovic, D. L. Cooper, P. Bultnik, A. Anoop, M. Bhattacharjee, P. K. Chattaraj
Int. J. Quantum Chem. **2015**, *115*, 1501
16. Synthesis and Structure of Heterobimetallic Mo-M [M = Na, Co, Ni and Zn] Compounds and Synthesis of Nanostructured Mixed Metal Oxides MMoO₄ and MoO₃ [M = Co, Ni and Zn] from the Heterobimetallic Complexes
D. Das, M. Bhattacharjee
Polyhedron, **2015**, *99*, 122.
17. Structure – Selectivity Relationship in Ruthenium Catalyzed Regio- and Stereoselective Addition of Alkynes to Pyrazoles: An Experimental and Theoretical Investigation
U. K. Das, S. Mandal, A. Anoop, M. Bhattacharjee
J. Org. Chem. **2014**, *79*, 9979.
18. Synthesis and Structure of [Et₃NH][Fe(HL)₂] { H₃L = L-2-(3, 5 –di tert-butyl-2-hydroxybenzylamino)-succinic acid} and its Catalytic Activity Towards Efficient Photodegradation of dyes in presence of H₂O₂
S. Dasgupta, S. Atta, N. D. Pradeep Singh, D. Deb, W. S. Kassel, M. Bhattacharjee
Eur. J. Inorg. Chem. **2014**, 5125.
19. Synthesis and structure of [Ru(PPh₃)₂(bipy)(MeCN)Cl][BPh₄] and its catalytic property towards regioselective and stereoselective allylation of phenols
A. Sinha, S. Khatua, M. Bhattacharjee
J. Organomet. Chem. **2014**, *770*, 116.
20. SnCl₂ insertion into Ir-Cl and Rh-Cl bonds: Synthesis, characterization and catalytic activity of three-legged piano-stool trichlorostannyl iridium and rhodium complexes
A. K. Maity, M. Bhattacharje, S. Roy
J. Organomet. Chem. **2014**, *768*, 42.

21. Synthesis, Structure and Catalytic Property of $[\text{Ru}(\text{dppp})_2(\text{CH}_3\text{CN})\text{Cl}][\text{BPh}_4]$ and Isolation of Catalytically Active $[\text{Ru}(\text{dppp})_2\text{Cl}][\text{BPh}_4]$: Ruthenium Catalysed Alkyne Homocoupling and Tandem Alkyne – Azide Cycloaddition
U. K. Das, R. K. Jena, M. Bhattacharjee
RSC Adv. **2014**, *4*, 21964
22. Titanium(IV) Non-metallocene Complex Catalyzed Aqueous Homo- and Copolymerization of Styrene and Methyl Methacrylate: An Environment Friendly Approach to Ultra-High Molecular Weight Polymer Nanoparticles
S. K De, M. Bhattacharjee
J. Polymn. Sci. Part A: Polymer Chemistry, **2013**, *51*, 1540.
23. Heterotrimetallic Compounds Containing Mo – Li – M [M = K, Rb, and Cs] Clusters: Synthesis, Structure, Bonding, Aromaticity and Theoretical Investigations of Li_2M_2 [M = K and Rb] and Cs_4 Rings
D. Deb, S. Duley, S. Radenkovic, P. Bultinck, P. K. Chattaraj, M. Bhattacharjee
Phys. Chem. Chem. Phys. **2012**, *14*, 15579
24. A Moisture and Air Stable Cationic Ruthenium Complex as Catalyst for Highly Atom - Economical Stereo- and Regioselective Vinylation of Azoles
U. K. Das, M. Bhattacharjee
Chem. Eur. J. **2012**, *18*, 5180
25. Synthesis and Structure of $[\text{Ru}(\text{dppe})_2(\text{CH}_3\text{CN})\text{Cl}][\text{BPh}_4]$ and its Catalytic Application to Anti-Markovnikov Addition of Carboxylic Acids to Terminal Alkynes
U. K. Das, M. Bhattacharjee
J. Organomet. Chem. **2012**, *700*, 78.
26. Synthesis of High Molecular Weight Polymer Nanoparticles by $[\text{Cp}_2\text{ZrCl}_2]$ Catalyzed Emulsion Polymerization
S. K De, M. Bhattacharjee
J. Polymn. Sci. Part A: Polymer Chemistry, **2011**, *49*, 3920.
27. Synthesis and Structure of Heterobimetallic Helical Polymeric Mo – M(II) (M = Mn, Co, Zn, Cd or Ni) Complexes using a Flexidentate Metalloligand
D. Deb, M. Bhattacharjee

- Inorg. Chim Acta.* **2011**, 372, 286.
28. Synthesis and Structure of a 3D Porous Network Containing Aromatic 1D Chains of Li₆ Rings: Experimental and Computational Studies
D. Deb, S. Giri, P. K. Chattaraj, M. Bhattacharjee
J. Phys. Chem. A **2010**, 114, 10871.
29. “Synthesis and Structure of Aromatic Alkali metal Clusters Supported by Molybdenum Metalloligands” in “Aromaticity and Metal Clusters” Ed. P. K. Chattaraj, Taylor & Francis/CRC Press, Florida, **2010**, pp 333
M. Bhattacharjee
30. An Environmentally Benign Room Temperature Aqueous Homo- and Copolymerization of Styrene and Methylmethacrylate Catalyzed by [Cp₂TiCl₂]/NaBPh₄
S. K De, M. Bhattacharjee
J. Polymn. Sci. Part A: Polymer Chemistry, **2009**, 47, 6496.
31. Control Over C – O and C – C Bond Formation: Ruthenium Catalyzed Regiospecific Addition of Carboxylic Acid and Stereoselective Dimerization of Alkyne
J. Tripathy, M. Bhattacharjee
Tetrahedron Letters, **2009**, 50, 4863.
32. Possible Aromaticity in Alkali Cluster Chains
S. Khatua, D. R. Roy, P. Bultinck, M. Bhattacharjee and P. K. Chattaraj
Phys. Chem. Chem. Phys. **2008**, 10, 2421 (Cover Article)
33. Aromaticity in Alkali Metal Clusters: Role of the Metalloligand and the Size of the Metal Ion
S. Khatua, D. R. Roy, M. Bhattacharjee, P. K. Chattaraj
J. Comp. Meth. Sci. Eng. **2008**, 7, 395.
34. Solvent Dependent Assembly and Disassembly of a Hydrogen Bonded Helical Structure in a Co-Mo Bimetallic Complex
S. Khatua, T. Harada, R. Kuroda, M. Bhattacharjee
Chem. Commun. **2007**, 3927.

35. Selective N-Monoalkylation of Aniline Catalyzed by a Cationic Ruthenium (II) Compound
S. Naskar, M. Bhattacharjee
Tetrahedron Letters, **2007**, 48, 3367.
36. Synthesis and Characterization of Copper(II) Complexes Containing Tridentate Modified Amino Acid Ligands, [CuL(H₂O)(Pyz)] [L = {(3,5 – Di – tert –butyl - 2 – hydroxybenzyl)amino}acetic acid and S(-)-2-(3,5-Di-tert-butyl-2-hydroxybenzylamino)-3-methyl-butyric acid; Pyz = Pyrazole] and Their Oxidation to Copper(III) Coordinated Phenoxyl Radical
S. Dasgupta, S. Khatua, V. Bertolasi, M. Bhattacharjee
Polyhedron, **2007**, 26, 2574.
37. Synthesis and Structure of 1 D Na₆ Cluster Chain with Short Na-Na Distance: Organic Like Aromaticity in Inorganic Metal Cluster
S. Khatua, D. R. Roy, P. K. Chattaraj, M. Bhattacharjee
Chem. Commun. **2007**, 135.
38. Regiospecific Solvent-Free Transfer Hydrogenation of α,β -Unsaturated Carbonyl Compounds Catalyzed by a Cationic Ruthenium(II) Compound
S. Naskar, M. Bhattacharjee
Tetrahedron Letters, **2007**, 48, 465.
39. Early Transition metal Catalyzed Polymerization in Aqueous Medium: A Short Account of our Recent Endeavour.
M. Bhattacharjee, B. N. Patra
Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry (Special issue), **2007**, 37, 749
40. Helicity Induction Through Hydrogen Bonding and Spontaneous Resolution of a Bimetallic Nickel Complex Coordinated to an Octahedral Metalloligand
S. Khatua, H. Stoeckli-Evans, T. Harada, R. Kuroda, M. Bhattacharjee
Inorg. Chem. **2006**, 45, 9619.
41. Metal Catalyzed Organic Transformations in Water: From Bromination to Polymerization
M. Bhattacharjee, B. N. Patra

- J. Chem. Sci.* **2006**, *118*, 583 (Special Issue)
42. Cp₂VCl₂-Catalyzed Aqueous Polymerization Using Oxygen as a Cocatalyst: The Remarkable Effect of Oxygen on the Molecular Weights and Yields of the Polymers
B. N. Patra, M. Bhattacharjee
J. Polym. Sci. Part A: Polymer Chemistry, **2006**, *44*, 2749.
43. Synthesis and Reactivity of Cyclam-Based Eneidyne
M. Kar, A. Basak, M. Bhattacharjee
Tetrahedron Letters, **2006**, *47*, 117.
44. Ruthenium Cationic Species for Transfer Hydrogenation of Aldehydes: Synthesis and Catalytic Properties of [(PPh₃)₂Ru(CH₃CN)₃Cl]⁺[A]⁻ {A = BPh₄ or ClO₄} and Structure of [(PPh₃)₂Ru(CH₃CN)₃Cl]⁺[BPh₄]⁻
S. Naskar, M. Bhattacharjee
J. Organomet. Chem. **2005**, *690*, 5006.
45. 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
S. Khatua, S. Dasgupta, K. Biradha, M. Bhattacharjee
Eur. J. Inorg. Chem. **2005**, 5005.
46. Early Transition Metal Catalyzed Aqueous Emulsion Copolymerization: Copolymerization of Styrene and Methyl Methacrylate by Cp₂TiCl₂ in Aqueous Medium
B.N. Patra, M. Bhattacharjee
J. Polym. Sci. Part A: Polymer Chemistry, **2005**, *43*, 3707.
47. Synthesis of High Molecular Weight Polystyrene and Poly(Methyl Methacrylate) with Low Polydispersity by [Cp₂ZrCl₂] Catalyzed Aqueous Polymerization
B. N. Patra, M. Bhattacharjee
J. Polym. Sci. Part A: Polymer Chemistry, **2005**, *43*, 3797.
48. Photoisomerization as a trigger for Bergman cyclization: Synthesis and reactivity of azoenediynes
M. Kar, A. Basak, M. Bhattacharjee

- Bioorg. Med. Chem. Lett.* **2005**, *15*, 5392.
49. [Cp₂TiCl₂] Catalyzed Polymerization in Water: Polymerization of Methylmethacrylate to a High Molecular Weight Polymer
M. Bhattacharjee, B. N. Patra
Polymer, **2004**, *45*, 3111.
50. [Cp₂TiCl₂] as Polymerization Catalyst in Aqueous Medium: Polymerization of Styrene in Water
M. Bhattacharjee, Braja N. Patra
J. Organomet.Chem. **2004**, *689*, 1091.
51. A green Hunsdiecker Reaction: Synthesis of β - Bromo Styrenes from the Reaction of α, β - Unsaturated Aromatic Carboxylic Acids with KBr and H₂O₂ Catalysed by Na₂MoO₄ · 2H₂O in Aqueous Medium
J. Sinha, S. Layek, G. C. Mandal, M. Bhattacharjee
Chem. Commun., **2001**, 1916.
52. Metal Alkoxide as Versatile Precursors for Group 4 Phosphonates: Synthesis and X-ray Structure of a Novel Organosoluble Zirconium Phosphonate
D. Chakraborty, V. Chandrasekhar, M. Bhattacharjee, R. Kraetzner, H. W. Roesky, M. Noltemeyer, H. D. Schmidt
Inorg. Chem., **2000**, *39*, 23.
53. First Structurally Characterized Organometallic Chloro Oxo-Peroxo Compounds of Molybdenum and Tungsten.
D. Chakraborty, M. Bhattacharjee, R. Kraetzner, H. W. Roesky, I. Uson, H. G. Schindt
Organometallics, **1999**, *18*, 106.
54. Organo Silanetriols: Model Compounds and Potential Precursors for MetalContaining Silicate Assemblies. A Review.
R. Murugavel, M. Bhattacharjee, H. W. Roesky
Appl. Organomet. Chem. **1999**, *13*, 227.
55. Formation of Very Weakly Interacting Organometallic Cation-Anion Systems Using Pearson's HSAB Concept: Synthesis and Structures of [Ag(Toluene)₃]⁺ [((SiMe₃)₃C)₂Al₂F₅]₂Li⁻ and [AlF₂(THF)₄]⁺ [((SiMe₃)₃C)₂Al₂F₅]⁻

- H. Hatop, H. W. Roesky, T. Labahn, C. Rupken, G. M. Sheldrick, M. Bhattacharjee
Organometallics, **1998**, *17*, 4326.
56. Synthesis, Characterisation, and Copper(II)-Assisted P-N Bond Cleavage of Bis(3,5-dimethylpyrazolyl)chlorophosphine Oxide and Isolation and Characterisation of 3,5-Dimethylpyrazole Complexes of Copper(II)
M. Bhattacharjee, R. Datta
Ind. J. Chem. **1997**, *36A*, 593.
57. Synthesis of a New Macrocyclic Ligand with Six Amide Receptor Sites
M. Bhattacharjee, R. Datta
Tetrahedron Letters, **1996**, *37*, 3579.
58. Synthesis, Characterisation, and Reactivity of Vanadium(V) Complexes Containing Coordinated Peroxide and Histidine- A Model for the Active Site of the Enzyme Bromoperoxidase
J. Mukherjee, S. Ganguly, M. Bhattacharjee
Ind. J. Chem. **1996**, *35A*, 471.
59. Molybdenum(VI)-Catalysed Bromination. A Molybdenum Analogue Reaction Mimic for the Enzyme Bromoperoxidase
M. Bhattacharjee, J. Mukherjee
J. Chem. Research(S), **1995**, 238.
60. Bromination Mediated by a Vanadium(V)-Peroxo Complex $[V_2O_2(O_2)_3(GlyH)(H_2O)]$ (GlyH = Glycine): A Functional Model for the Enzyme Bromoperoxidase
M. Bhattacharjee, S. Ganguly, J. Mukherjee
J. Chem. Research(S), **1995**, 80.
61. A Direct Synthesis of Anhydrous Alkali Metal Tetrafluorodioxouranates(VI), $A_2[UO_2F_4]$, and the First Synthesis of Alkali Metal Diaquotetrafluorodioxouranate(VI) Monohydrates, $A_2[UO_2F_4(H_2O)_2] \cdot H_2O$ (A = Na, K or NH_4)
M. Bhattacharjee, M. K. Chaudhuri, G. C. Mandal, P. Srinivas
J. Chem. Soc., Dalton Trans. **1994**, 2693.

62. Electrosynthesis, Characterization and Studies of Reactivity of Some Highly Peroxygenated vanadium(V) Complexes
M. C. Chakravorti, S. Ganguly, M. Bhattacharjee
Polyhedron **1994**, *13*, 695.
63. First Electrosynthesis of Transition Metal Peroxofluoro Complexes. Synthesis, Characterization and Reactivity of Some Peroxofluoro Complexes
M. C. Chakravorti, S. Ganguly, G. V. B. Subrahmanyam, M. Bhattacharjee
Polyhedron **1993**, *12*, 683.
64. First Electrosynthesis of Transition Metal Peroxo Complexes. Synthesis, Characterization and Reactivity of Molybdenum and Tungsten Heteroligand Peroxo Complexes
M. C. Chakravorti, S. Ganguly, M. Bhattacharjee
Polyhedron **1993**, *12*, 55.
65. An Efficient and Direct Synthesis of Bis(acetylacetonato)oxovanadium(IV)
M. Bhattacharjee
J. Chem. Research(S) **1992**, 415.
66. Activation of Bromide by Vanadium Pentoxide for the Bromination of Aromatic Hydrocarbons: Reaction Mimic for the Enzyme Bromoperoxidase
M. Bhattacharjee
Polyhedron **1992**, *11*, 2817.
67. Reactivity of Metal-Bound Peroxide: Alkali Triperoxovanadate(V) trihydrates, $A[V(O_2)_3] \cdot 3H_2O$ (A = Na or K), as oxidants resembling Alkali- H_2O_2 Reagent for Some Organic Substrates
M. Bhattacharjee, S. K. Chettri, M. K. Chaudhuri, N. S. Islam, S. R. Burman
J. Mol. Catalysis **1992**, *78(2)*, 143.
68. Synthesis and Physico-Chemical Studies of Newer Mono and Diperoxo Heteroligand Complexes of Vanadium
M. Bhattacharjee, M. K. Chaudhuri, P. C. Paul
Can. J. Chem. **1992**, *70*, 2245.

69. First Synthesis of $\text{Rb}(\text{C}_5\text{H}_7\text{O}_2)$, a Direct Route to $\text{Cs}(\text{C}_5\text{H}_7\text{O}_2)$ and Evidence for Strong Ion-Association/Ion-Pair Formation in $\text{A}(\text{C}_5\text{H}_5\text{O}_2)$ [A = Li, Na, K, Rb or Cs]
C. R. Bhattacharjee, M. Bhattacharjee, M. K. Chaudhuri, H. Sangchugnunga
J. Chem. Research(S) **1991**, 250.
70. Preparation and Reaction of Salts of $[\text{ZrO}(\text{O}_2)\text{F}_2]^{2-}$ and $[\text{ZrO}(\text{O}_2)_2\text{F}]^{3-}$
C. R. Bhattacharjee, M. Bhattacharjee, M. K. Chaudhuri, S. Choudhury
Polyhedron **1990**, 9, 1653.
71. Synthesis, Characterisation and Some Properties of Molecular Mixed-Ligand Peroxo Complexes of Uranium(VI) Containing Amines or Aminocarboxylic Acids as Coligands
M. Bhattacharjee, M. K. Chaudhuri, R. N. Dutta Purakayastha
J. Chem. Soc., Dalton Trans. **1990**, 2883.
72. Synthesis, Characterisation and Physico-Chemical Properties of Peroxo-Vanadium(V) Complexes with Glycine as the heteroligand
M. Bhattacharjee, M. K. Chaudhuri, N. S. Islam, P. C. Paul
Inorg. Chim. Acta **1990**, 169, 97.
73. Newer Manifestations of Reactivity of Coordinated Peroxide at Metal and Non-Metal Centres
M. Bhattacharjee, M. K. Chaudhuri, N. S. Islam
Proc. Indian Acad. Sci. **1990**, 102, 365.
74. Ammonium Fluoroperoxomonophosphate Dihydrate, $[\text{NH}_4]_2[\text{PO}_2(\text{O}_2)\text{F}] \cdot \text{H}_2\text{O}$. First Chemical Synthesis of a Fluorinated Peroxophosphate
M. Bhattacharjee, M. K. Chaudhuri
J. Chem. Soc., Dalton Trans. **1988**, 2005.
75. Direct Synthesis of Ammonium Monofluorophosphate Monohydrate, $[\text{NH}_4]_2[\text{PO}_3\text{F}] \cdot \text{H}_2\text{O}$ and Potassium Monofluorophosphate, $\text{K}_2[\text{PO}_3\text{F}]$
M. Bhattacharjee, M. K. Chaudhuri
J. Chem. Soc., Dalton Trans. **1987**, 477.
76. Complex Peroxouranates. Synthesis and Structural Assessment of Alkali-Metal and Ammonium Dioxoperoxy(sulfato)aquouranates(VI), $\text{A}_2[\text{UO}_2(\text{O}_2)\text{SO}_4(\text{H}_2\text{O})]$

(A = NH₄, Na), and Alkali-Metal and Ammonium
Dioxoperoxy(oxalato)uranates(VI) Hydrates, A₂[UO₂(O₂)C₂O₄] · H₂O

M. Bhattacharjee, M. K. Chaudhuri, R. N. Dutta Purkayastha

Inorg. Chem. **1986**, 25, 2354.