Pradyut Ghosh

List of Publications by Year
in descending order

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113 papers	3,787 citations	136950 32 h-index	138484 58 g-index
118 all docs	118 docs citations	118 times ranked	3017 citing authors

#	Article	IF	Citations
1	Ni(II), Cu(II), and Zn(II) Cryptate-Enhanced Fluorescence of a Trianthrylcryptand:â€‰ A Potential Molecular Photonic OR Operator. Journal of the American Chemical Society, 1996, 118, 1553-1554.	13.7	275
2	Recognition and separation of sulfate anions. Chemical Society Reviews, 2012, 41, 3077.	38.1	188
3	Transition Metal (II)/(III), Eu(III), and Tb(III) Ions Induced Molecular Photonic OR Gates Using Trianthryl Cryptands of Varying Cavity Dimension. Journal of the American Chemical Society, 1997, 119, 11903-11909.	13.7	168
4	A Hybrid Waterâ€“Chloride Structure with Discrete Undecameric Water Moieties Self-Assembled in a Heptaprotonated Octaamino Cryptand. Angewandte Chemie - International Edition, 2006, 45, 3807-3811.	13.8	137
5	Anion complexation of a pentafluorophenyl-substituted tripodal urea receptor in solution and the solid state: selectivity toward phosphate. Dalton Transactions, 2009, , 4160.	3.3	133
6	Zinc(II) and PPi Selective Fluorescence OFFâ€“ONâ€“OFF Functionality of a Chemosensor in Physiological Conditions. Inorganic Chemistry, 2011, 50, 4229-4231.	4.0	126
7	Trapped inorganic phosphate dimer. Chemical Communications, 2007, , 5214.	4.1	123
8	Visible and near-infrared sensing of fluoride by indole conjugated urea/thiourea ligands. Chemical Communications, 2010, 46, 2962.	4.1	115
9	A Highly Sensitive ESIPT-Based Ratiometric Fluorescence Sensor for Selective Detection of Al³⁺. Inorganic Chemistry, 2016, 55, 9212-9220.	4.0	111
10	Recognition and complexation of hydrated fluoride anion: F2(H2O)62â^' templated formation of a dimeric capsule of a tripodal amide. Chemical Communications, 2009, , 5389.	4.1	98
11	Controlling the rate of shuttling motions in [2]rotaxanes by electrostatic interactions: a cation as solvent-tunable brake. Organic and Biomolecular Chemistry, 2005, 3, 2691.	2.8	77
12	A Versatile Tripodal Amide Receptor for the Encapsulation of Anions or Hydrated Anions via Formation of Dimeric Capsules. Inorganic Chemistry, 2010, 49, 943-951.	4.0	77
13	Anion induced capsular self-assemblies. Chemical Communications, 2011, 47, 8477.	4.1	76
14	Efficient fixation of atmospheric CO₂as carbonate in a capsule of a neutral receptor and its release under mild conditions. Chemical Communications, 2010, 46, 1082-1084.	4.1	74
15	Encapsulation of Halides within the Cavity of a Pentafluorophenyl-Substituted Tripodal Amine Receptor. Inorganic Chemistry, 2007, 46, 4769-4771.	4.0	73
16	Counteranion-Controlled Water Cluster Recognition in a Protonated Octaamino Cryptand. Inorganic Chemistry, 2005, 44, 7540-7546.	4.0	72
17	Recent advances in recognition, sensing and extraction of phosphates: 2015 onwards. Coordination Chemistry Reviews, 2020, 405, 213128.	18.8	71
18	Synthesis and Characterization of a Tripodal Amide Ligand and Its Binding with Anions of Different Dimensionality. Inorganic Chemistry, 2006, 45, 4372-4380.	4.0	67

#	Article	IF	Citations
19	A New Hexaaza Bicyclic Cyclophane with Dual Binding Sites. Journal of Organic Chemistry, 2008, 73, 9144-9147.	3.2	62
20	Acid/base controlled size modulation of capsular phosphates, hydroxide encapsulation, quantitative and clean extraction of sulfate with carbonate capsules of a tripodal urea receptor. Chemical Science, 2012, 3, 1522.	7.4	56
21	Selective Sensing of Phosphates by a New Bisâ€heteroleptic Ru^{II} Complex through Halogen Bonding: A Superior Sensor over Its Hydrogenâ€Bonding Analogue. Chemistry - A European Journal, 2016, 22, 18051-18059.	3.3	55
22	A new chemosensor that signals Hg(ii), Cu(ii) and Zn(ii) at different emission wavelengths: selectivity toward Hg(ii) in acetonitrile. New Journal of Chemistry, 2009, 33, 1825.	2.8	47
23	Bis-Heteroleptic Ruthenium(II) Complex of a Triazole Ligand as a Selective Probe for Phosphates. Inorganic Chemistry, 2014, 53, 8061-8070.	4.0	47
24	Bistripodand Amide Host for Compartmental Recognition of Multiple Oxyanions. Organic Letters, 2010, 12, 328-331.	4.6	46
25	Functionalized guanidinium chloride based colourimetric sensors for fluoride and acetate: single crystal X-ray structural evidence of -NH deprotonation and complexation. Organic and Biomolecular Chemistry, 2011, 9, 1972.	2.8	46
26	Recent developments in anion induced capsular self-assemblies. Chemical Communications, 2014, 50, 10538-10554.	4.1	45
27	Encapsulation of [F4(H2O)10]4â˜ in a dimeric assembly of an unidirectional arene based hexapodal amide receptor. Chemical Communications, 2011, 47, 6269.	4.1	44
28	Anion binding studies of tris(2-aminoethyl)amine based amide receptors with nitro functionalized aryl substitutions: A positional isomeric effect. Inorganica Chimica Acta, 2010, 363, 2886-2895.	2.4	43
29	Artificial receptors for nitrate: a comprehensive overview. Chemical Communications, 2015, 51, 9070-9084.	4.1	43
30	Halogen bonding assisted selective removal of bromide. Chemical Communications, 2015, 51, 14793-14796.	4.1	40
31	Unusual recognition of (n-Bu4N)2SO4 by a cyanuric acid based host via contact ion-pair interactions. Chemical Communications, 2010, 46, 6741.	4.1	38
32	Dual-host approach for liquidâ€“liquid extraction of potassium fluoride/chloride via formation of an integrated 1-D polymeric complex. Chemical Communications, 2011, 47, 4721.	4.1	33
33	Bis-Heteroleptic Ruthenium(II) Complex of Pendant Urea Functionalized Pyridyl Triazole and Phenathroline for Recognition, Sensing, and Extraction of Oxyanions. Inorganic Chemistry, 2017, 56, 5371-5382.	4.0	33
34	A Cyanuric Acid Platform Based Tripodal Bis-heteroleptic Ru(II) Complex of Click Generated Ligand for Selective Sensing of Phosphates via Câ€“HÂ·Â·Â·Anion Interaction. Inorganic Chemistry, 2016, 55, 259-271.	4.0	31
35	Encapsulation of [X₂(H₂O)₄]^{2â˜}(X = F/Cl) clusters by pyridyl terminated tripodal amide receptor in aqueous medium: single crystal X-ray structural evidence. Dalton Transactions, 2014, 43, 2061-2068.	3.3	30
36	Formation and Transmetalation Mechanisms of Homo- and Heterometallic (Fe/Zn) Trinuclear Triple-Stranded Side-by-Side Helicates. Inorganic Chemistry, 2015, 54, 4231-4242.	4.0	30

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37	A hexa-quinoline basedC₃-symmetric chemosensor for dual sensing of zinc(<scp>ii</scp>) and PPi in an aqueous mediumviachelation induced â€œOFFâ€“ONâ€“OFFâ€•emission. Dalton Transactions, 2018, 47, 6819-6830.	3.3	28
38	A chelation enhanced selective fluorescence sensing of Hg2+ by a simple quinoline substituted tripodal amide receptor. Dalton Transactions, 2011, 40, 12540.	3.3	27
39	Role of Wingtip Substituents on Benzene-Platform-Based Tetrapodal Ligands toward the Formation of a Self-Assembled Silver Carbene Cage. Inorganic Chemistry, 2013, 52, 4269-4276.	4.0	27
40	Multitasking behaviour of a small organic compound: solid state bright white-light emission, mechanochromism and ratiometric sensing of Al(<scp>iii</scp>) and pyrophosphate. Chemical Communications, 2019, 55, 5127-5130.	4.1	27
41	Formation of a nitrate zipped dimeric capsule and un-zipping by chloride doping. Chemical Communications, 2009, , 3184.	4.1	26
42	Combined Solution-Phase, Solid-Phase and Phase-Interface Anion Binding and Extraction Studies by a Simple Tripodal Thiourea Receptor. European Journal of Inorganic Chemistry, 2012, 2012, 5791-5801.	2.0	26
43	Molecular Recognition Studies of an Octaaminocryptand upon Different Degree of Protonation. Crystal Growth and Design, 2008, 8, 2842-2852.	3.0	25
44	Selective recognition and extraction of KBr via cooperative interactions with a urea functionalized crown ether dual-host. Chemical Communications, 2015, 51, 16514-16517.	4.1	25
45	Anion directed conformational diversities of an arene based hexa-amide receptor and recognition of the [F₄(H₂O)₆]^{4â^'}cluster. RSC Advances, 2014, 4, 62689-62693.	3.6	22
46	Aryl-platform-based tetrapodal 2-iodo-imidazolium as an excellent halogen bond receptor in aqueous medium. Chemical Communications, 2019, 55, 1506-1509.	4.1	22
47	Anion Binding in the C_{3v}-Symmetric Cavity of a Protonated Tripodal Amine Receptor: Potentiometric and Single Crystal X-ray Studies. Inorganic Chemistry, 2011, 50, 10693-10702.	4.0	21
48	A Perfect Linear Cuâ^'NNNâ^'Cu Unit Inside the Cryptand Cavity and Perchlorate Entrapment within the Channel Formed by the Cascade Complex. Inorganic Chemistry, 2006, 45, 10046-10048.	4.0	20
49	Recognition of fluoride in fluorophenyl attached tripodal amide receptors: structural evidence of solvent capped encapsulation of anion in a C3v-symmetric tripodal cleft. CrystEngComm, 2014, 16, 4796.	2.6	20
50	Hexabromide salt of a tiny octaazacryptand as a receptor for encapsulation of lower homolog halides: structural evidence on halide selectivity inside the tiny cage. Tetrahedron, 2007, 63, 11371-11376.	1.9	19
51	Cu(ii) assisted self-sorting towards pseudorotaxane formation. Chemical Communications, 2011, 47, 6272.	4.1	19
52	Synthesis of a Preorganized Hybrid Macrobicycle with Distinct Amide and Amine Clefts: Tetrahedral versus Spherical Anions Binding Studies. Journal of Organic Chemistry, 2013, 78, 8759-8765.	3.2	19
53	Arsenate recognition in aqueous media by a simple tripodal urea. Dalton Transactions, 2013, 42, 11371.	3.3	18
54	Tris(2-aminoethyl)amine based tripodal urea receptors for oxalate: encapsulation of staggered vs. planar conformers. Organic and Biomolecular Chemistry, 2013, 11, 4581.	2.8	18

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55	Aerial CO2Trapped as CO32-Ions in a Dimeric Capsule That Efficiently Extracts Chromate, Sulfate, and Thiosulfate from Water by Anion-Exchange Metathesis. European Journal of Inorganic Chemistry, 2014, 2014, 4134-4143.	2.0	18
56	Amino-ether macrocycle that forms Cu^{II} templated threaded heteroleptic complexes: a detailed selectivity, structural and theoretical investigations. Dalton Transactions, 2015, 44, 15198-15211.	3.3	18
57	Competitive Transmetalation of First-Row Transition-Metal Ions between Trinuclear Triple-Stranded Side-by-Side Helicates. Inorganic Chemistry, 2017, 56, 12505-12513.	4.0	17
58	[2]Rotaxane with Multiple Functional Groups. Journal of Organic Chemistry, 2014, 79, 11170-11178.	3.2	16
59	Polyamideâ€“Polyamine Cryptand as Dicarboxylate Receptor: Dianion Binding Studies in the Solid State, in Solution, and in the Gas Phase. Journal of Organic Chemistry, 2017, 82, 10007-10014.	3.2	16
60	An integrated urea and halogen bond donor based receptor for superior and selective sensing of phosphates. Dalton Transactions, 2019, 48, 4538-4546.	3.3	16
61	A multifunctional catenated host for the efficient binding of Eu³⁺ and Gd³⁺. Chemical Communications, 2019, 55, 3085-3088.	4.1	16
62	A Fluorophoricâ€Axleâ€Based, Nonfluororescent, Metallo antiâ€[3]Pseudorotaxane: Recovery of Fluorescence by Means of an Axle Substitution Reaction. Chemistry - A European Journal, 2011, 17, 13712-13719.	3.3	14
63	Anion-Assisted Formation of Discrete Homodimeric and Heterotetrameric Assemblies by Benzene Based Protonated Heteroaryl Receptors. Crystal Growth and Design, 2012, 12, 2097-2108.	3.0	14
64	Encapsulation of Fluoride/Chloride in the C3v-Symmetric Cleft of a Pentafluorophenyl-Functionalized Cyanuric Acid Platform Based Tripodal Amide: Solid and Solution-State Anion-Binding Studies. European Journal of Inorganic Chemistry, 2012, 2012, 3456-3462.	2.0	14
65	Selective recognition of sulphate in a Cu(ii) assisted 1D polymer of a simple pentafluorophenyl substituted pyridyl-urea via second sphere coordination. Dalton Transactions, 2013, 42, 5818.	3.3	14
66	Encapsulation of [(SO₄)₄(H₂O)₁₂]^{8â^'} clusters in a metal organic framework of pyridyl functionalized cyanuric acid based tris-urea. Dalton Transactions, 2015, 44, 15075-15078.	3.3	14
67	Attachment of 4-methoxy benzyl units to a tripodal fluoroionophore shows reversal of output functionality with Cu(II) input. Tetrahedron, 2007, 63, 12940-12947.	1.9	13
68	Tris-ureas as versatile and highly efficient organocatalysts for Michael addition reactions of nitro-olefins: Mechanistic insight from in-situ diagnostics. Journal of Molecular Catalysis A, 2015, 408, 287-295.	4.8	13
69	Arene platform based hexa-amide receptors for anion recognition: single crystal X-ray structural and thermodynamic studies. RSC Advances, 2015, 5, 48060-48070.	3.6	13
70	Balancing the acidity of the pendant urea arm of bis-heteroleptic ruthenium(<scp>ii</scp>) complex containing pyridyl triazole for improved oxyanion recognition. Dalton Transactions, 2018, 47, 7561-7570.	3.3	13
71	Syntheses of metallo-pseudorotaxanes, rotaxane and post-synthetically functionalized rotaxane: a comprehensive spectroscopic study and dynamic properties. Dalton Transactions, 2017, 46, 13300-13313.	3.3	12
72	Nitrate directed organized assemblies of protonated arene based tripodal receptors. CrystEngComm, 2010, 12, 1621.	2.6	11

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73	[2]Pseudorotaxane Composed of Heteroditopic Macrobicycle and Pyridine N-Oxide Based Axle: Recognition Site Dependent Axle Orientation. Organic Letters, 2015, 17, 1854-1857.	4.6	11
74	Threading of various â€˜Uâ€™ shaped bidentate axles into a heteroditopic macrocyclic wheel via NiII/CuII templation. Dalton Transactions, 2017, 46, 7421-7433.	3.3	11
75	Superiority of a polymeric scavenger over its hexapodal monomer towards efficient ReO₄^{â”} removal in water. Chemical Communications, 2021, 57, 5578-5581.	4.1	11
76	Cerium ion-induced fluorescence enhancement of a tripodal fluoroionophore. Tetrahedron Letters, 2002, 43, 7419-7422.	1.4	10
77	Cu(I)/Cu(II) templated functional pseudorotaxanes and rotaxanes. Journal of Chemical Sciences, 2012, 124, 1229-1237.	1.5	10
78	Effect of coordinating (â€“CN) vs. non-coordinating (â€“F) substituents in 3-pyridyl urea receptors toward second sphere sulfate recognition: selective crystallisation of CuSO4 from mixtures of competing anions/cations. CrystEngComm, 2013, 15, 9472.	2.6	10
79	Supramolecular Self-Assembly Driven Selective Sensing of Phosphates. Inorganic Chemistry, 2019, 58, 15993-16003.	4.0	10
80	Influence of Triazole Substituents of Bis-Heteroleptic Ru(II) Probes toward Selective Sensing of Dihydrogen Phosphate. Inorganic Chemistry, 2021, 60, 9084-9096.	4.0	10
81	Binding of Polyatomic Anions with Protonated Ureido-pyridyl Ligands. Crystal Growth and Design, 2011, 11, 1642-1650.	3.0	9
82	Various Coordination Modes of Sulfate by Cyanuric Acid Platform-Based First- and Second-Generation Urea Receptors. European Journal of Inorganic Chemistry, 2013, 2013, 2673-2681.	2.0	9
83	Binding Studies on an Arene-Capped Bicyclic Cyclophane with Ï€-Rich Neutral Guests and Anions. Crystal Growth and Design, 2013, 13, 3208-3215.	3.0	9
84	CuII-Templated Threading of a Bis-amide-tris-amine Macrocycle by Substituted 2,2â€²-Bipyridyl Derivatives Assisted by Strong Ï€-Ï€ Stacking and Second-Sphere H-Bonding Interactions. European Journal of Inorganic Chemistry, 2014, 2014, 2029-2037.	2.0	9
85	Unusual Recognition and Separation of Hydrated Metal Sulfates [M₂(Î¼-SO₄)₂(H₂O)_n, M = Zn^{II}, Cd^{II}, Co^{II}, Mn^{II}] by a Ditopic Receptor. Inorganic Chemistry, 2016, 55, 3640-3652.	4.0	9
86	Ion-pair coordination driven stimuli-responsive one-dimensional supramolecular helicate. Chemical Communications, 2017, 53, 2487-2490.	4.1	9
87	Selective and efficient removal of perrhenate by an imidazolium based hexapodal receptor in water medium. Dalton Transactions, 2020, 49, 3093-3097.	3.3	9
88	Anion-dependent thermo-responsive supramolecular superstructures of Cu(<scp>II</scp>) macrocycles. Dalton Transactions, 2018, 47, 5734-5742.	3.3	8
89	Selective Single-Step Oxidation of Amine to Cross-Azo Compounds with an Unhampered Primary Benzyl Alcohol Functionality. Organic Letters, 2018, 20, 6725-6729.	4.6	8
90	Naphthalene containing amino-ether macrocycle based Cu(ii) templated [2]pseudorotaxanes and OFF/ON fluorescence switching via axle substitution. Dalton Transactions, 2018, 47, 13408-13418.	3.3	8

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91	A pentafluorophenyl functionalized RuII-probe having halogen bond center toward recognition and sensing of perrhenate and dihydrogen phosphate. Journal of Organometallic Chemistry, 2021, 952, 122027.	1.8	8
92	Structural diversities in Ag(<scp>i</scp>) complexes of xylyl platform based isomeric bis-NHC ligands: effects of pyridine wingtip substituents. New Journal of Chemistry, 2017, 41, 2131-2139.	2.8	7
93	Mechanistic Insight into Fast and Highly Efficient Organocatalytic Activity of a Tripodal Dimeric Hexaurea Capsular Assembly in Michael Addition Reactions. ACS Omega, 2018, 3, 10647-10656.	3.5	7
94	Substitution Effect on Near Infrared Absorbance Based Selective Fluoride Sensing of Indole Functionalized Thiourea Molecules. European Journal of Organic Chemistry, 2019, 2019, 1008-1015.	2.4	7
95	Template Directed Syntheses of Electrochemically Active [2]Rotaxanes: Anion Binding and Redox Studies. ChemElectroChem, 2020, 7, 1038-1047.	3.4	7
96	A Cd(ii) and Zn(ii) selective naphthyl based [2]rotaxane acts as an exclusive Zn(ii) sensor upon further functionalization with pyrene. Dalton Transactions, 2021, 50, 294-303.	3.3	7
97	A Series of Amino Acid Functionalized Tripodal Hexaamide Anion Receptors: Ionâ€Pairâ€Assisted Cappedâ€Cleft Formation by a Pentafluorophenylâ€Functionalized Amide. Chemistry - an Asian Journal, 2012, 7, 2373-2380.	3.3	6
98	Cu(ii) templated formation of [n]pseudorotaxanes (n = 2, 3, 4) using a tris-amino ether macrocyclic wheel and multidentate axles. Dalton Transactions, 2019, 48, 6853-6862.	3.3	6
99	Discriminative Behavior of a Donorâ€“Acceptorâ€“Donor Triad toward Cyanide and Fluoride: Insights into the Mechanism of Naphthalene Diimide Reduction by Cyanide and Fluoride. Inorganic Chemistry, 2020, 59, 13371-13382.	4.0	6
100	A Bisâ€heteroleptic Imidazoliumâ€bipyridine Functionalized Iridium(III) Complex for Fluorescence Lifetimeâ€based Recognition and Sensing of Phosphates. Chemistry - an Asian Journal, 2022, 17, .	3.3	6
101	Rotamerâ€Induced Dynamic Nature of a [2]Rotaxane and Control of the Dynamics by External Stimuli. European Journal of Organic Chemistry, 2017, 2017, 1583-1593.	2.4	5
102	Removal of phosphate in presence of interfering sulphate and arsenate by a tripodal thiourea receptor by precipitation through crystallization in semi-aqueous medium. Polyhedron, 2019, 172, 74-79.	2.2	5
103	Room-Temperature Synthesis of 1,3,5-Tri(het)aryl Benzene from Nitroalkenes Using Pd(OAc)₂: Complete Mechanistic and Theoretical Studies. Organic Letters, 2022, 24, 4438-4443.	4.6	5
104	CuII-Templated Threading of a Bis-amide-tris-amine Macrocycle by Substituted 2,2â€²-Bipyridyl Derivatives Assisted by Strong Ï€-Ï€ Stacking and Second-Sphere H-Bonding Interactions. European Journal of Inorganic Chemistry, 2014, 2014, 2012-2012.	2.0	4
105	A heteroditopic macrocycle as organocatalytic nanoreactor for pyrroloacridinone synthesis in water. Beilstein Journal of Organic Chemistry, 2019, 15, 1505-1514.	2.2	4
106	Cyanide contaminated water treatment by di-nuclear Cu(II)-cryptate: A supramolecular approach. Journal of Water Process Engineering, 2020, 37, 101364.	5.6	4
107	Optical detection of sodium salts of fluoride, acetate and phosphate by a diacylhydrazine ligand by the formation of a colour alkali metal complex. Journal of Chemical Sciences, 2011, 123, 869-874.	1.5	3
108	Oneâ€Pot Dual Câ^'C Coupling Reaction via Site Selective Cascade Formation by Pd II â€Cryptate of an Aminoâ€Ether Heteroditopic Macrobicycle. Chemistry - A European Journal, 2021, 27, 7307-7314.	3.3	3

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109	Heteroditopic Macrobicyclic Molecular Vessels for Single Step Aerial Oxidative Transformation of Primary Alcohol Appended Cross Azobenzenes. Journal of Organic Chemistry, 2021, 86, 6648-6664.	3.2	3
110	Fluorophoric [2]rotaxanes: post-synthetic functionalization, conformational fluxionality and metal ion chelation. New Journal of Chemistry, 2020, 44, 5947-5964.	2.8	2
111	Benzoselenadiazole containing donorâ€“acceptorâ€“donor receptor as a superior and selective probe for fluoride in DMSO. Inorganica Chimica Acta, 2022, 538, 120973.	2.4	1
112	Inside Cover: A Fluorophoric-Axle-Based, Nonfluororescent, Metallo anti-[3]Pseudorotaxane: Recovery of Fluorescence by Means of an Axle Substitution Reaction (Chem. Eur. J. 49/2011). Chemistry - A European Journal, 2011, 17, 13626-13626.	3.3	0
113	Neutral tripodal receptors towards efficient trapping of oxalate. Journal of Chemical Sciences, 2014, 126, 1303-1309.	1.5	0