

Prasenjit Ghosh

List of Publications by Year in descending order

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89
papers

4,207
citations

94433

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114465

63
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all docs

90
docs citations

90
times ranked

3682
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#	ARTICLE	IF	CITATIONS
1	Desorption kinetics of soil sorbed carbazole, fluorene, and dibenzothiophene by <i>P. aeruginosa</i> RS1 from single and multicomponent systems and elucidation of their interaction effects. <i>Biochemical Engineering Journal</i> , 2022, 180, 108367.	3.6	5
2	One pot tandem dual C=C and C=O bond reductions in the β^2 -alkylation of secondary alcohols with primary alcohols by ruthenium complexes of amido and picolyl functionalized N-heterocyclic carbenes. <i>Dalton Transactions</i> , 2021, 50, 15640-15654.	3.3	14
3	Growth kinetics of <i>Pseudomonas aeruginosa</i> RS1 on fluorene and dibenzothiophene, concomitant degradation kinetics and uptake mechanism. <i>3 Biotech</i> , 2021, 11, 195.	2.2	9
4	Environmental contamination by heterocyclic Polynuclear aromatic hydrocarbons and their microbial degradation. <i>Bioresource Technology</i> , 2021, 341, 125860.	9.6	29
5	Elucidation of substrate interaction effects in multicomponent systems containing 3-ring homocyclic and heterocyclic polynuclear aromatic hydrocarbons. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1394-1404.	3.5	2
6	Modeling growth kinetics and carbazole degradation kinetics of a <i>Pseudomonas aeruginosa</i> strain isolated from refinery sludge and uptake considerations during growth on carbazole. <i>Science of the Total Environment</i> , 2020, 738, 140277.	8.0	12
7	Degradation of carbazole, fluorene, dibenzothiophene and their mixture by <i>P. aeruginosa</i> RS1 in petroleum refinery wastewater. <i>Journal of Water Process Engineering</i> , 2020, 37, 101454.	5.6	11
8	1,4-Conjugate Addition of Aryl boronic Acids on Cyclohexenone as Catalyzed by Rhodium(I) Complexes of C 2 -Symmetric Bioxazoline Fused N-Heterocyclic Carbenes. <i>ChemistrySelect</i> , 2019, 4, 8526-8533.	1.5	7
9	A comparison between (a/n-NHC)PdX ₂ (pyridine) and (a/n-NHC) ₂ PdX ₂ (X = Cl, Br, I) type complexes of abnormal fused-bicyclic imidazo[1,2-a]pyridine based N-heterocyclic carbene (a-NHC) and of normal imidazole based N-heterocyclic carbene (n-NHC) ligands in the Suzuki-Miyaura coupling reactions. <i>Inorganica Chimica Acta</i> , 2019, 498, 119090.	2.4	2
10	Solvent-free cyanosilylation of aromatic and heteroaryl aldehydes catalyzed by a cationic iron N-heterocyclic carbene complex at ambient temperature under UV irradiation. <i>Inorganica Chimica Acta</i> , 2019, 495, 119003.	2.4	4
11	Asymmetric Transfer Hydrogenation of α,β -Unsaturated Carbonyl Compounds to Saturated Alcohols as Catalyzed by Iridium Complexes of Tricyclic Bioxazoline-Fused Imidazole-Derived N-Heterocyclic Carbene Ligands. <i>ChemistrySelect</i> , 2019, 4, 357-365.	1.5	15
12	Palladium Acyclic Diaminocarbene (ADC) Triflate Complexes as Effective Precatalysts for the Hiyama Alkynylation/Cyclization Reaction Yielding Benzofuran Compounds: Probing the Influence of the Triflate Co-Ligand in the One-Pot Tandem Reaction. <i>ChemistrySelect</i> , 2019, 4, 329-336.	1.5	14
13	β^2 -Enaminone Synthesis from 1,3-Dicarbonyl Compounds and Aliphatic and Aromatic Amines Catalyzed by Iron Complexes of Fused Bicyclic Imidazo[1,5-a]pyridine Derived N-Heterocyclic Carbenes. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 295-313.	2.0	10
14	One-Pot Tandem Hiyama Alkynylation/Cyclizations by Palladium(II) Acyclic Diaminocarbene (ADC) Complexes Yielding Biologically Relevant Benzofuran Scaffolds. <i>ACS Omega</i> , 2018, 3, 1740-1756.	3.5	33
15	Cyanosilylation of Aromatic Aldehydes by Cationic Ruthenium(II) Complexes of Benzimidazole-Derived O-Functionalized N-Heterocyclic Carbenes at Ambient Temperature under Solvent-Free Conditions. <i>ACS Omega</i> , 2018, 3, 1922-1938.	3.5	15
16	Heterodinuclear Zn(II)-Fe(III) and Homodinuclear M(II)-M(II) [M = Zn and Ni] complexes of a Bicompartamental [N ₆ O] ligand as synthetic mimics of the hydrolase family of enzymes. <i>Journal of Inorganic Biochemistry</i> , 2018, 185, 30-42.	3.5	10
17	Michael addition of cyclic β^2 -oxo ester and β^1 -methyl cyano ester substrates with activated olefins by iron complexes of benzimidazole derived N-heterocyclic carbene ligands. <i>Journal of Organometallic Chemistry</i> , 2018, 859, 106-116.	1.8	15
18	Homodinuclear [Fe(III)-Fe(III)] and [Zn(II)-Zn(II)] complexes of a binucleating [N ₄ O ₃] symmetrical ligand with purple acid phosphatase (PAP) and zinc phosphoesterase like activity. <i>Polyhedron</i> , 2018, 145, 88-100.	2.2	14

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19	Binuclear Fused 5-membered Palladacycle and Palladium Complex of Amido-functionalized N-heterocyclic Carbene Precatalysts for the One-Pot Tandem Hiyama Alkynylation/Cyclization Reactions. <i>ChemistrySelect</i> , 2018, 3, 9361-9367.	1.5	8
20	Optimization of media composition for enhancing carbazole degradation by <i>Pseudomonas aeruginosa</i> RS1. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 2881-2891.	6.7	16
21	An Efficient Synthetic Approach to <i>trans</i> -(NHC) ₂ Pd(R)Br Type Complexes and Their Use in Suzuki-Miyaura Cross-Coupling Reactions. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2144-2154.	2.0	10
22	Chiral Oxazolidine-Fused N-Heterocyclic Carbene Complexes of Rhodium and Iridium and Their Utility in the Asymmetric Transfer Hydrogenation of Ketones. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 3253-3268.	2.0	21
23	Potent Anticancer Activity with High Selectivity of a Chiral Palladium N-Heterocyclic Carbene Complex. <i>ACS Omega</i> , 2017, 2, 4632-4646.	3.5	47
24	Modeling the Active Site of the Purple Acid Phosphatase Enzyme with Hetero-Dinuclear Mixed Valence M(II)-Fe(III) [M = Zn, Ni, Co, and Cu] Complexes Supported over a [N ₆ O] Unsymmetrical Ligand. <i>ACS Omega</i> , 2017, 2, 4737-4750.	3.5	24
25	Leaching Behaviour of Pond Ash. , 2017, , 171-204.		3
26	WQI, DRASTIC and Contaminant Transport Modelling Using WiscLEACH 2.0. , 2017, , 205-234.		2
27	Computational Insight Into the Hydroamination of an Activated Olefin, As Catalyzed by a 1,2,4-Triazole-Derived Nickel(II) N-Heterocyclic Carbene Complex. <i>Inorganic Chemistry</i> , 2017, 56, 14859-14869.	4.0	14
28	Mass spectrometric support for a bifunctional catalysis mechanism for the base-free Michael addition by a nickel N-heterocyclic carbene complex: Detection of the catalytic intermediates. <i>Inorganica Chimica Acta</i> , 2017, 466, 358-369.	2.4	12
29	The Developing Concept of Bifunctional Catalysis with Transition Metal N-Heterocyclic Carbene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1448-1465.	2.0	51
30	Accessing a Biologically Relevant Benzofuran Skeleton by a One-Pot Tandem Heck Alkynylation/Cyclization Reaction Using Well-Defined Palladium N-Heterocyclic Carbene Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 2882-2893.	4.0	38
31	Synthesis and Structural Characterization of the Gold Complexes of 1,2,4-Triazole Derived N-Heterocyclic Carbene Ligands. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2016, 86, 605-609.	1.2	1
32	Asymmetric Base-Free Michael Addition at Room Temperature with Nickel-Based Bifunctional Amido-functionalized N-Heterocyclic Carbene Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 1604-1615.	2.0	30
33	1,2,4-Triazole-Based N-Heterocyclic Carbene Nickel Complexes – Synthesis and Catalytic Application. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5226-5231.	2.0	12
34	Nickel complexes of 1,2,4-triazole derived amido-functionalized N-heterocyclic carbene ligands: Synthesis, theoretical studies and catalytic application. <i>Journal of Organometallic Chemistry</i> , 2015, 786, 63-70.	1.8	22
35	Fluoride-free Hiyama coupling by palladium abnormal N-heterocyclic carbene complexes. <i>Dalton Transactions</i> , 2015, 44, 17617-17628.	3.3	44
36	An insight into a base-free Michael addition reaction as catalyzed by a bifunctional nickel N-heterocyclic carbene complex using density functional theory studies. <i>Journal of Organometallic Chemistry</i> , 2015, 775, 109-116.	1.8	23

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37	Nickel N-heterocyclic carbene complexes and their utility in homogeneous catalysis. <i>Inorganica Chimica Acta</i> , 2015, 431, 61-100.	2.4	111
38	Palladium complexes of a new type of N-heterocyclic carbene ligand derived from a tricyclic triazolooxazine framework. <i>Journal of Chemical Sciences</i> , 2014, 126, 1557-1563.	1.5	9
39	Cationic iron(II) complexes of the mixed cyclopentadienyl (Cp) and the N-heterocyclic carbene (NHC) ligands as effective precatalysts for the hydrosilylation of carbonyl compounds. <i>Journal of Organometallic Chemistry</i> , 2014, 762, 81-87.	1.8	31
40	Understanding the lability of a trans bound pyridine ligand in a saturated six-membered N-heterocyclic carbene based (NHC)PdCl ₂ (pyridine) type complex: A case study. <i>Polyhedron</i> , 2013, 52, 524-529.	2.2	14
41	Palladium complexes of the N-fused heterocycle derived abnormal N-heterocyclic carbenes for the much-preferred Cu-free and the amine-free Sonogashira coupling in air. <i>Polyhedron</i> , 2013, 64, 20-29.	2.2	44
42	Bifunctional nickel precatalysts of amido-functionalized N-heterocyclic carbenes for base-free Michael reaction under ambient conditions. <i>Journal of Organometallic Chemistry</i> , 2012, 696, 4159-4165.	1.8	34
43	Studies of the Electronic Properties of N-Heterocyclic Carbene Ligands in the Context of Homogeneous Catalysis and Bioorganometallic Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3955-3969.	2.0	69
44	Computational Insight into a Gold(I) N-Heterocyclic Carbene Mediated Alkyne Hydroamination Reaction. <i>Inorganic Chemistry</i> , 2012, 51, 5593-5604.	4.0	51
45	A computational insight into a metal mediated pathway for the ring-opening polymerization (ROP) of lactides by an ionic {(NHC) ₂ Ag}+X ⁻ (X = halide) type N-heterocyclic carbene (NHC) complex. <i>Dalton Transactions</i> , 2011, 40, 10156.	3.3	22
46	Gold(III) N-Heterocyclic Carbene Complexes Mediated Synthesis of α -Enaminones From 1,3-Dicarbonyl Compounds and Aliphatic Amines. <i>Inorganic Chemistry</i> , 2011, 50, 1840-1848.	4.0	54
47	Ruthenium complexes of chelating amido-functionalized N-heterocyclic carbene ligands: Synthesis, structure and DFT studies. <i>Journal of Chemical Sciences</i> , 2011, 123, 791-798.	1.5	7
48	Silver complexes of 1,2,4-triazole derived N-heterocyclic carbenes: Synthesis, structure and reactivity studies. <i>Journal of Chemical Sciences</i> , 2011, 123, 97-106.	1.5	21
49	Functional mimics of catechol oxidase by mononuclear copper complexes of sterically demanding [NNO] ligands. <i>Inorganica Chimica Acta</i> , 2011, 372, 145-151.	2.4	50
50	Suzuki-Miyaura cross-coupling of aryl chlorides catalyzed by palladium precatalysts of N/O-functionalized pyrazolyl ligands. <i>Inorganica Chimica Acta</i> , 2010, 363, 3113-3121.	2.4	15
51	Fascinating frontiers of N/O-functionalized N-heterocyclic carbene chemistry: from chemical catalysis to biomedical applications. <i>Dalton Transactions</i> , 2010, 39, 7183.	3.3	171
52	Highly Convenient Regioselective Intermolecular Hydroamination of Alkynes Yielding Ketimines Catalyzed by Gold(I) Complexes of 1,2,4-triazole Based N-heterocyclic Carbenes. <i>Inorganic Chemistry</i> , 2010, 49, 4972-4983.	4.0	92
53	Titanium isopropoxide complexes of a series of sterically demanding aryloxo based [N ₂ O ₂] ²⁻ ligands as precatalysts for ethylene polymerization. <i>Dalton Transactions</i> , 2010, 39, 11060.	3.3	7
54	Controlled oxidation of organic sulfides to sulfoxides under ambient conditions by a series of titanium isopropoxide complexes using environmentally benign H ₂ O ₂ as an oxidant. <i>Dalton Transactions</i> , 2010, 39, 2428.	3.3	59

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55	A comparison between nickel and palladium precatalysts of 1,2,4-triazole based N-heterocyclic carbenes in hydroamination of activated olefins. Dalton Transactions, 2010, 39, 2515.	3.3	57
56	Highly efficient palladium precatalysts of homoscorpionate bispyrazolyl ligands for the more challenging Suzuki–Miyaura cross-coupling of aryl chlorides. Dalton Transactions, 2010, 39, 7353.	3.3	34
57	Catalytic Deoxygenation of 1,2-Propanediol to Give <i>n</i> -Propanol. Advanced Synthesis and Catalysis, 2009, 351, 789-800.	4.3	75
58	Nickel Complexes of <i>N</i> -Functionalized <i>N</i> -Heterocyclic Carbenes as Precatalysts for Michael Reactions in Air at Room Temperature Under the Much Preferred Base-Free Conditions. European Journal of Inorganic Chemistry, 2009, 2009, 1932-1941.	2.0	50
59	Fluoride-Free Hiyama and Copper- and Amine-Free Sonogashira Coupling in Air in a Mixed Aqueous Medium by a Series of PEPPSI-Themed Precatalysts. European Journal of Inorganic Chemistry, 2009, 2009, 1608-1618.	2.0	108
60	Design of nickel chelates of tetradentate N-heterocyclic carbenes with subdued cytotoxicity. Journal of Organometallic Chemistry, 2009, 694, 2328-2335.	1.8	54
61	Copper-free and amine-free Sonogashira coupling in air in a mixed aqueous medium by palladium complexes of <i>N</i> / <i>O</i> -functionalized N-heterocyclic carbenes. Journal of Organometallic Chemistry, 2009, 694, 3477-3486.	1.8	67
62	Palladium complexes of amido-functionalized N-heterocyclic carbenes as effective precatalysts for the Suzuki–Miyaura C–C cross-coupling reactions of aryl bromides and iodides. Journal of Organometallic Chemistry, 2009, 694, 4162-4169.	1.8	40
63	Synthesis of Ruthenium Carbonyl Complexes with Phosphine or Substituted Cp Ligands, and Their Activity in the Catalytic Deoxygenation of 1,2-Propanediol. Inorganic Chemistry, 2009, 48, 6490-6500.	4.0	38
64	Rare [(NHC) ₂ Ni-OH]-Type Terminal Nickel Hydroxo and [(NHC) ₂ Ni]-Type Complexes of <i>N</i> -Functionalized N-Heterocyclic Carbenes as Precatalysts for Highly Desirable Base-Free Michael Reactions in Air at Ambient Temperature. Organometallics, 2009, 28, 2267-2275.	2.3	80
65	Palladium complexes of abnormal N-heterocyclic carbenes as precatalysts for the much preferred Cu-free and amine-free Sonogashira coupling in air in a mixed-aqueous medium. Dalton Transactions, 2009, , 10581.	3.3	126
66	Highly Convenient Amine-Free Sonogashira Coupling in Air in a Polar Mixed Aqueous Medium by <i>trans</i> - and <i>cis</i> -(NHC) ₂ PdX ₂ (X=Cl, Br) Complexes of <i>N</i> -Functionalized <i>N</i> -Heterocyclic Carbenes. Chemistry - A European Journal, 2008, 14, 6646-6655.	3.3	122
67	From Large 12-Membered Macrometallacycles to Ionic (NHC) ₂ M+Cl ⁻ Type Complexes of Gold and Silver by Modulation of the N-Substituent of Amido-Functionalized N-Heterocyclic Carbene (NHC) Ligands. Inorganic Chemistry, 2008, 47, 4153-4165.	4.0	71
68	Shorter Argentophilic Interaction than Auophilic Interaction in a Pair of Dimeric {(NHC)MCl} ₂ (M =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Inorganic Chemistry, 2008, 47, 230-240.	4.0	137
69	Mimicking the Intradiol Catechol Cleavage Activity of Catechol Dioxygenase by High-Spin Iron(III) Complexes of a New Class of a Facially Bound [N ₂ O] Ligand. Inorganic Chemistry, 2008, 47, 11847-11856.	4.0	22
70	Unprecedented long-range 1,7-bromination in gold complexes of N-(aryl)imino functionalized N-heterocyclic carbenes. Dalton Transactions, 2008, , 4893.	3.3	32
71	Structural and functional mimic of galactose oxidase by a copper complex of a sterically demanding [N ₂ O ₂] ligand. Dalton Transactions, 2008, , 2815.	3.3	34
72	Palladium(II) and Gold(I) Complexes of a New O-Functionalized N-Heterocyclic Carbene Ligand:Â Synthesis, Structures, and Catalytic Application. Organometallics, 2007, 26, 958-964.	2.3	102

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73	Anticancer and Antimicrobial Metallopharmaceutical Agents Based on Palladium, Gold, and Silver N-Heterocyclic Carbene Complexes. <i>Journal of the American Chemical Society</i> , 2007, 129, 15042-15053.	13.7	576
74	Air-stable, convenient to handle Pd based PEPPSI (pyridine enhanced precatalyst preparation,) utility in Suzuki-Miyaura cross-coupling reaction. <i>Dalton Transactions</i> , 2007, , 4546.	3.3	99
75	Ni(II) and Cu(II) complexes of phenoxy-ketimine ligands: Synthesis, structures and their utility in bulk ring-opening polymerization (ROP) of l-lactide. <i>Polyhedron</i> , 2007, 26, 4033-4044.	2.2	64
76	Silver N-heterocyclic carbene complexes as initiators for bulk ring-opening polymerization (ROP) of l-lactides. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 1672-1682.	1.8	81
77	Gold(I) N-heterocyclic carbene based initiators for bulk ring-opening polymerization of l-lactide. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 4259-4269.	1.8	86
78	Experimental and theoretical studies of a silver complex of O-functionalized N-heterocyclic carbene. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 3797-3805.	1.8	39
79	A Cationic (N-Heterocyclic carbene)silver Complex as Catalyst for Bulk Ring-Opening Polymerization of L-Lactides. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 2975-2984.	2.0	85
80	First Example of a Gold(I)N-Heterocyclic-Carbene-Based Initiator for the Bulk Ring-Opening Polymerization of l-Lactide. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3724-3730.	2.0	83
81	Ethylene Homopolymerization and Copolymerization with Functionalized 5-Norbornen-2-yl Monomers by a Novel Nickel Catalyst System. <i>Macromolecules</i> , 2003, 36, 9731-9735.	4.8	117
82	Metal-Catalyzed Selective Deoxygenation of Diols to Alcohols. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3887-3890.	13.8	102
83	Bis(pyrazolyethyl)thioether ligation to zinc and cadmium: structural characterization of [S(CH ₂ CH ₂ pzMe ₂) ₂]ZnCl ₂ , [S(CH ₂ CH ₂ pzMe ₂) ₂]CdI ₂ and [S(CH ₂ CH ₂ pzMe ₂) ₂]Cd(NO ₃) ₂ . <i>Polyhedron</i> , 1999, 18, 1107-1113.	2.2	22
84	Synthesis and molecular structure of bis(pyrazolyl) (3,5-di-tert-butylpyrazolyl)hydroborato thallium: a hetero-tris(pyrazolyl)- hydroborato ligand derived from two different pyrazoles. <i>New Journal of Chemistry</i> , 1999, 23, 961-963.	2.8	12
85	Modeling the active sites of bacteriophage T7 lysozyme, bovine 5-aminolevulinatase dehydratase, and peptide deformylase: synthesis and structural characterization of a bis(pyrazolyl) (thioalkoxy)hydroborato zinc complex, [(Ph ₂ CHS)BpBut,Pri]ZnI. <i>Chemical Communications</i> , 1998, , 413-414.	4.1	39
86	Chemical Shift Anisotropy as a Mechanism for Modulating Apparent J _{TI-Hand} J _{TI-CC} Coupling Constants in Tris(pyrazolyl)hydroborato Thallium Complexes. <i>Journal of the American Chemical Society</i> , 1998, 120, 10416-10422.	13.7	28
87	Synthesis and structure of a monomeric magnesium phenylselenolate complex [Tpp-Tol]MgSePh supported by tris (3-p-tolylpyrazolyl)hydroborato ligation. <i>Polyhedron</i> , 1997, 16, 1255-1257.	2.2	12
88	Structural characterization of bis(pyrazolyl)hydroborato thallium complexes: monomeric and two-coordinate thallium derivatives supplemented by [TI-Hand]H-B interactions. <i>Polyhedron</i> , 1997, 16, 3469-3473.	2.2	27
89	Terminal hydrochalcogenido and bridging selenido derivatives of magnesium supported by tris(3-p-tolylpyrazolyl)hydroborate ligation: the syntheses and structures of [Tp p-Tol]MgEH (E = S, Se) and {[Tp p-Tol]Mg}2Se. <i>Chemical Communications</i> , 1996, , 1239.	4.1	25