Prasenjit Ghosh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88 papers	3,802 citations	36 h-index	60 g-index
97 ext. papers	4,015 ext. citations	3.9 avg, IF	5.52 L-index

#	Paper	IF	Citations
88	Growth kinetics of RS1 on fluorene and dibenzothiophene, concomitant degradation kinetics and uptake mechanism. *3 Biotech*, **2021**, 11, 195	2.8	4
87	Palladium(II), silver(I), and gold(I) complexes of a new class of chiral bicyclic [1,2,3]-triazolooxazine derived N-heterocyclic carbenes (NHCs): Synthesis, structure and application studies. *Polyhedron*, **2021**, 197, 115011	2.7	1
86	One pot tandem dual C?C and C?O bond reductions in the alkylation of secondary alcohols with primary alcohols by ruthenium complexes of amido and picolyl functionalized N-heterocyclic carbenes. *Dalton Transactions*, **2021**, 50, 15640-15654	4.3	2
85	Elucidation of substrate interaction effects in multicomponent systems containing 3-ring homocyclic and heterocyclic polynuclear aromatic hydrocarbons. *Environmental Sciences: Processes and Impacts*, **2021**, 23, 1394-1404	4.3	
84	Modeling growth kinetics and carbazole degradation kinetics of a Pseudomonas aeruginosa strain isolated from refinery sludge and uptake considerations during growth on carbazole. *Science of the Total Environment*, **2020**, 738, 140277	10.2	5
83	Degradation of carbazole, fluorene, dibenzothiophene and their mixture by P. aeruginosa RS1 in petroleum refinery wastewater. *Journal of Water Process Engineering*, **2020**, 37, 101454	6.7	5
82	A comparison between (a/n-NHC)PdX2(pyridine) and (a/n-NHC)2PdX2 (X = I, Cl) 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. *Inorganica Chimica Acta*, **2019**, 486, 568-577	2.7	2
81	Solvent-free cyanosilylation of aromatic and heteroaryl aldehydes catalyzed by a cationic iron N-heterocyclic carbene complex at ambient temperature under UV irradiation. *Inorganica Chimica Acta*, **2019**, 495, 119003	2.7	2
80	1,4-Conjugate Addition of Aryl boronic Acids on Cyclohexenone as Catalyzed by Rhodium(I) Complexes of C2-Symmetric Bioxazoline Fused N-heterocyclic Carbenes. *ChemistrySelect*, **2019**, 4, 8526-8533	1.8	3
79	Asymmetric Transfer Hydrogenation of Unsaturated Carbonyl Compounds to Saturated Alcohols as Catalyzed by Iridium Complexes of Tricyclic Bioxazoline-Fused Imidazole-Derived N-Heterocyclic Carbene Ligands. *ChemistrySelect*, **2019**, 4, 357-365	1.8	9
78	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. *ChemistrySelect*, **2019**, 4, 329-336	1.8	8
77	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. *European Journal of Inorganic Chemistry*, **2019**, 2019, 295-313	2.3	7
76	One-Pot Tandem Hiyama Alkynylation/Cyclizations by Palladium(II) Acyclic Diaminocarbene (ADC) Complexes Yielding Biologically Relevant Benzofuran Scaffolds. *ACS Omega*, **2018**, 3, 1740-1756	3.9	20
75	Cyanosilylation of Aromatic Aldehydes by Cationic Ruthenium(II) Complexes of Benzimidazole-Derived O-Functionalized N-Heterocyclic Carbenes at Ambient Temperature under Solvent-Free Conditions. *ACS Omega*, **2018**, 3, 1922-1938	3.9	12
74	Heterodinuclear Zn(II)-Fe(III) and Homodinuclear M(II)-M(II) [M = Zn and Ni] complexes of a Bicompartmental [NO] ligand as synthetic mimics of the hydrolase family of enzymes. *Journal of Inorganic Biochemistry*, **2018**, 185, 30-42	4.2	6
73	Michael addition of cyclic oxo ester and methyl cyano ester substrates with activated olefins by iron complexes of benzimidazole derived N-heterocyclic carbene ligands. *Journal of Organometallic Chemistry*, **2018**, 859, 106-116	2.3	15
72	Homodinuclear [Fe(III)Fe(III)] and [Zn(II)Zn(II)] complexes of a binucleating [N4O3] symmetrical ligand with purple acid phosphatase (PAP) and zinc phosphoesterase like activity. *Polyhedron*, **2018**, 145, 88-100	2.7	9

71	Binuclear Fused 5-membered Palladacycle and Palladium Complex of Amido-Functionalized N-heterocyclic Carbene Precatalysts for the One-Pot Tandem Hiyama Alkynylation/Cyclization Reactions. *ChemistrySelect*, **2018**, 3, 9361-9367	1.8	5
70	Optimization of media composition for enhancing carbazole degradation by Pseudomonas aeruginosa RS1. *Journal of Environmental Chemical Engineering*, **2018**, 6, 2881-2891	6.8	11
69	An Efficient Synthetic Approach to trans-(NHC)2Pd(R)Br Type Complexes and Their Use in Suzuki□Miyaura Cross-Coupling Reactions. *European Journal of Inorganic Chemistry*, **2017**, 2017, 2144-2154	2.3	8
68	Chiral Oxazolidine-Fused N-Heterocyclic Carbene Complexes of Rhodium and Iridium and Their Utility in the Asymmetric Transfer Hydrogenation of Ketones. *European Journal of Inorganic Chemistry*, **2017**, 2017, 3253-3268	2.3	19
67	Potent Anticancer Activity with High Selectivity of a Chiral Palladium N-Heterocyclic Carbene Complex. *ACS Omega*, **2017**, 2, 4632-4646	3.9	35
66	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 [NO] Unsymmetrical Ligand. *ACS Omega*, **2017**, 2, 4737-4750	3.9	17
65	Computational Insight Into the Hydroamination of an Activated Olefin, As Catalyzed by a 1,2,4-Triazole-Derived Nickel(II) N-Heterocyclic Carbene Complex. *Inorganic Chemistry*, **2017**, 56, 14859-14869	5.1	11
64	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. *Inorganica Chimica Acta*, **2017**, 466, 358-369	2.7	10
63	Synthesis and Structural Characterization of the Gold Complexes of 1,2,4-Triazole Derived N-Heterocyclic Carbene Ligands. *Proceedings of the National Academy of Sciences India Section A - Physical Sciences*, **2016**, 86, 605-609	0.9	1
62	The Developing Concept of Bifunctional Catalysis with Transition Metal N-Heterocyclic Carbene Complexes. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1448-1465	2.3	40
61	Accessing a Biologically Relevant Benzofuran Skeleton by a One-Pot Tandem Heck Alkynylation/Cyclization Reaction Using Well-Defined Palladium N-Heterocyclic Carbene Complexes. *Inorganic Chemistry*, **2016**, 55, 2882-93	5.1	32
60	Nickel complexes of 1,2,4-triazole derived amido-functionalized N-heterocyclic carbene ligands: Synthesis, theoretical studies and catalytic application. *Journal of Organometallic Chemistry*, **2015**, 786, 63-70	2.3	20
59	Fluoride-free Hiyama coupling by palladium abnormal N-heterocyclic carbene complexes. *Dalton Transactions*, **2015**, 44, 17617-28	4.3	37
58	An insight into a base-free Michael addition reaction as catalyzed by a bifunctional nickel N-heterocyclic carbene complex using density functional theory studies. *Journal of Organometallic Chemistry*, **2015**, 775, 109-116	2.3	21
57	Nickel N-heterocyclic carbene complexes and their utility in homogeneous catalysis. *Inorganica Chimica Acta*, **2015**, 431, 61-100	2.7	92
56	Asymmetric Base-Free Michael Addition at Room Temperature with Nickel-Based Bifunctional Amido-Functionalized N-Heterocyclic Carbene Catalysts. *European Journal of Inorganic Chemistry*, **2015**, 2015, 1604-1615	2.3	26
55	1,2,4-Triazole-Based N-Heterocyclic Carbene Nickel Complexes: Synthesis and Catalytic Application. *European Journal of Inorganic Chemistry*, **2015**, 2015, 5226-5231	2.3	8
54	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. *Journal of Organometallic Chemistry*, **2014**, 762, 81-87	2.3	30

53	Palladium complexes of a new type of N-heterocyclic carbene ligand derived from a tricyclic triazolooxazine framework. *Journal of Chemical Sciences*, **2014**, 126, 1557-1563	1.8	8
52	Understanding the lability of a trans bound pyridine ligand in a saturated six-membered N-heterocyclic carbene based (NHC)PdCl2(pyridine) type complex: A case study. *Polyhedron*, **2013**, 52, 524-529	2.7	14
51	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. *Polyhedron*, **2013**, 64, 20-29	2.7	38
50	Bifunctional nickel precatalysts of amido-functionalized N-heterocyclic carbenes for base-free Michael reaction under ambient conditions. *Journal of Organometallic Chemistry*, **2012**, 696, 4159-4165	2.3	31
49	Studies of the Electronic Properties of N-Heterocyclic Carbene Ligands in the Context of Homogeneous Catalysis and Bioorganometallic Chemistry. *European Journal of Inorganic Chemistry*, **2012**, 2012, 3955-3969	2.3	66
48	Computational insight into a gold(I) N-heterocyclic carbene mediated alkyne hydroamination reaction. *Inorganic Chemistry*, **2012**, 51, 5593-604	5.1	42
47	A computational insight into a metal mediated pathway for the ring-opening polymerization (ROP) of lactides by an ionic {(NHC)2Ag}(+)X(-) (X = halide) type N-heterocyclic carbene (NHC) complex. *Dalton Transactions*, **2011**, 40, 10156-61	4.3	20
46	Gold(III) N-heterocyclic carbene complexes mediated synthesis of β-enaminones from 1,3-dicarbonyl compounds and aliphatic amines. *Inorganic Chemistry*, **2011**, 50, 1840-8	5.1	50
45	Ruthenium complexes of chelating amido-functionalized N-heterocyclic carbene ligands: Synthesis, structure and DFT studies. *Journal of Chemical Sciences*, **2011**, 123, 791-798	1.8	5
44	Silver complexes of 1,2,4-triazole derived N-heterocyclic carbenes: Synthesis, structure and reactivity studies. *Journal of Chemical Sciences*, **2011**, 123, 97-106	1.8	20
43	Functional mimics of catechol oxidase by mononuclear copper complexes of sterically demanding [NNO] ligands. *Inorganica Chimica Acta*, **2011**, 372, 145-151	2.7	46
42	Fascinating frontiers of N/O-functionalized N-heterocyclic carbene chemistry: from chemical catalysis to biomedical applications. *Dalton Transactions*, **2010**, 39, 7183-206	4.3	163
41	Highly convenient regioselective intermolecular hydroamination of alkynes yielding ketimines catalyzed by gold(I) complexes of 1,2,4-triazole based N-heterocyclic carbenes. *Inorganic Chemistry*, **2010**, 49, 4972-83	5.1	81
40	Titanium isopropoxide complexes of a series of sterically demanding aryloxo based [N2O2]2- ligands as precatalysts for ethylene polymerization. *Dalton Transactions*, **2010**, 39, 11060-8	4.3	6
39	Controlled oxidation of organic sulfides to sulfoxides under ambient conditions by a series of titanium isopropoxide complexes using environmentally benign H2O2 as an oxidant. *Dalton Transactions*, **2010**, 39, 2428-40	4.3	54
38	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, 2515-24	4.3	54
37	Highly efficient palladium precatalysts of homoscorpionate bispyrazolyl ligands for the more challenging Suzuki-Miyaura cross-coupling of aryl chlorides. *Dalton Transactions*, **2010**, 39, 7353-63	4.3	33
36	Suzuki–Miyaura cross-coupling of aryl chlorides catalyzed by palladium precatalysts of N/O-functionalized pyrazolyl ligands. *Inorganica Chimica Acta*, **2010**, 363, 3113-3121	2.7	15

35	Catalytic Deoxygenation of 1,2-Propanediol to Give n-Propanol. *Advanced Synthesis and Catalysis*, **2009**, 351, 789-800	5.6	73
34	Nickel Complexes of N/O-Functionalized N-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	2.3	48
33	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	2.3	100
32	Design of nickel chelates of tetradentate N-heterocyclic carbenes with subdued cytotoxicity. *Journal of Organometallic Chemistry*, **2009**, 694, 2328-2335	2.3	52
31	Copper-free and amine-free Sonogashira coupling in air in a mixed aqueous medium by palladium complexes of N/O-functionalized N-heterocyclic carbenes. *Journal of Organometallic Chemistry*, **2009**, 694, 3477-3486	2.3	65
30	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	2.3	40
29	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, 6490-500	5.1	37
28	Rare [(NHC)2Ni-OH]-Type Terminal Nickel Hydroxo and [(NHC)2Ni]-Type Complexes of N/O-Functionalized N-Heterocyclic Carbenes as Precatalysts for Highly Desirable Base-Free Michael Reactions in Air at Ambient Temperature. *Organometallics*, **2009**, 28, 2267-2275	3.8	72
27	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**, 10581-91	4.3	115
26	From large 12-membered macrometallacycles to ionic (NHC)2M+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, 4153-65	5.1	67
25	Shorter argentophilic interaction than aurophilic interaction in a pair of dimeric {(NHC)MCl}(2) (M = Ag, Au) complexes supported over a N/O-functionalized N-heterocyclic carbene (NHC) ligand. *Inorganic Chemistry*, **2008**, 47, 230-40	5.1	130
24	Mimicking the intradiol catechol cleavage activity of catechol dioxygenase by high-spin iron(III) complexes of a new class of a facially bound [N2O] ligand. *Inorganic Chemistry*, **2008**, 47, 11847-56	5.1	21
23	Unprecedented long-range 1,7-bromination in gold complexes of N-(aryl)imino functionalized N-heterocyclic carbenes. *Dalton Transactions*, **2008**, 4893-902	4.3	28
22	Structural and functional mimic of galactose oxidase by a copper complex of a sterically demanding [N2O2] ligand. *Dalton Transactions*, **2008**, 2815-24	4.3	32
21	Highly convenient amine-free sonogashira coupling in air in a polar mixed aqueous medium by trans- and cis-[(NHC)2PdX2] (X=Cl, Br) complexes of N/O-functionalized N-heterocyclic carbenes. *Chemistry - A European Journal*, **2008**, 14, 6646-55	4.8	116
20	Air-stable, convenient to handle Pd based PEPPSI (pyridine enhanced precatalyst preparation, stabilization and initiation) themed precatalysts of N/O-functionalized N-heterocyclic carbenes and its utility in Suzuki-Miyaura cross-coupling reaction. *Dalton Transactions*, **2007**, 4546-55	4.3	93
19	Ni(II) and Cu(II) complexes of phenoxy-ketimine ligands: Synthesis, structures and their utility in bulk ring-opening polymerization (ROP) of l-lactide. *Polyhedron*, **2007**, 26, 4033-4044	2.7	62
18	Silver N-heterocyclic carbene complexes as initiators for bulk ring-opening polymerization (ROP) of l-lactides. *Journal of Organometallic Chemistry*, **2007**, 692, 1672-1682	2.3	73

17	Gold(I) N-heterocyclic carbene based initiators for bulk ring-opening polymerization of l-lactide. *Journal of Organometallic Chemistry*, **2007**, 692, 4259-4269	2.3	81
16	Palladium(II) and Gold(I) Complexes of a New O-Functionalized N-Heterocyclic Carbene Ligand: Synthesis, Structures, and Catalytic Application. *Organometallics*, **2007**, 26, 958-964	3.8	97
15	Anticancer and antimicrobial metallopharmaceutical agents based on palladium, gold, and silver N-heterocyclic carbene complexes. *Journal of the American Chemical Society*, **2007**, 129, 15042-53	16.4	515
14	A Cationic (N-Heterocyclic carbene)silver Complex as Catalyst for Bulk Ring-Opening Polymerization of L-Lactides. *European Journal of Inorganic Chemistry*, **2006**, 2006, 2975-2984	2.3	84
13	First Example of a Gold(I) N-Heterocyclic-Carbene-Based Initiator for the Bulk Ring-Opening Polymerization of L-Lactide. *European Journal of Inorganic Chemistry*, **2006**, 2006, 3724-3730	2.3	77
12	Experimental and theoretical studies of a silver complex of O-functionalized N-heterocyclic carbene. *Journal of Organometallic Chemistry*, **2006**, 691, 3797-3805	2.3	38
11	Ethylene Homopolymerization and Copolymerization with Functionalized 5-Norbornen-2-yl Monomers by a Novel Nickel Catalyst System. *Macromolecules*, **2003**, 36, 9731-9735	5.5	107
10	Metal-Catalyzed Selective Deoxygenation of Diols to Alcohols. *Angewandte Chemie*, **2001**, 113, 4005-4008	3.6	18
9	Metal-Catalyzed Selective Deoxygenation of Diols to Alcohols. *Angewandte Chemie - International Edition*, **2001**, 40, 3887-3890	16.4	91
8	Bis(pyrazolylethyl)thioether ligation to zinc and cadmium: structural characterization of [S(CH2CH2pzMe2)2]ZnCl2, [S(CH2CH2pzMe2)2]CdI2 and [S(CH2CH2pzMe2)2]Cd(NO3)2. *Polyhedron*, **1999**, 18, 1107-1113	2.7	18
7	Synthesis and Molecular Structure of Bis(pyrazolyl)hydroborato Thallium {[Bp]Tl}2: A [BpRR']Tl Complex with an Unbridged Close Tl···Tl Contact. *Inorganic Chemistry*, **1999**, 38, 5464-5467	5.1	33
6	Modeling the active sites of bacteriophage T7 lysozyme, bovine 5-aminolevulinate dehydratase, and peptide deformylase: synthesis and structural characterization of a bis(pyrazolyl)(thioalkoxy)hydroborato zinc complex, [(Ph2CHS)BpBut,Pri]ZnI. *Chemical Communications*, **1998**, 413-414	5.8	37
5	Chemical Shift Anisotropy as a Mechanism for Modulating Apparent JTl-H and JTl-C Coupling Constants in Tris(pyrazolyl)hydroborato Thallium Complexes. *Journal of the American Chemical Society*, **1998**, 120, 10416-10422	16.4	21
4	Synthesis and structure of a monomeric magnesium phenylselenolate complex [Tpp-Tol]MgSePh supported by tris (3-p-tolylpyrazolyl)hydroborato ligation. *Polyhedron*, **1997**, 16, 1255-1257	2.7	11
3	Structural characterization of bis(pyrazolyl)hydroborato thallium complexes: monomeric two-coordinate thallium derivatives supplemented by [Tl···H-B] interactions. *Polyhedron*, **1997**, 16, 3469-3473	2.7	23
2	Synthesis and Structure of a Magnesium Hydroxide Complex Supported by Tris(pyrazolyl)hydroborato Ligation, {[Tp(Ar,Me)]Mg(&mgr;-OH)}(2) (Ar = p-Bu(t)C(6)H(4)). *Inorganic Chemistry*, **1996**, 35, 1429-1430	5.1	26
1	Terminal hydrochalcogenido and bridging selenido derivatives of magnesium supported by tris(3-p-tolylpyrazolyl)hydroborate ligation: the syntheses and structures of [Tpp-Tol]MgEH (E = S, Se) and {[Tpp-Tol]Mg}2Se. *Chemical Communications*, **1996**, 1239	5.8	22