

Rajendra S Ghadwal

List of Publications by Year in descending order

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92
papers

3,609
citations

109264
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docs citations

96
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Lewis Base Stabilized Dichlorosilylene. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5683-5686.	7.2	433
2	Dichlorosilylene: A High Temperature Transient Species to an Indispensable Building Block. <i>Accounts of Chemical Research</i> , 2013, 46, 444-456.	7.6	208
3	Donor-acceptor-stabilized Silicon Analogue of an Acid Anhydride. <i>Journal of the American Chemical Society</i> , 2011, 133, 17552-17555.	6.6	104
4	Donor-acceptor stabilized silaformyl chloride. <i>Chemical Communications</i> , 2012, 48, 8186.	2.2	102
5	Carbon-based two electron σ -donor ligands beyond classical N-heterocyclic carbenes. <i>Dalton Transactions</i> , 2016, 45, 16081-16095.	1.6	99
6	A Dimer of Silaisonitrile with Two-coordinate Silicon Atoms. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5374-5378.	7.2	95
7	Ambiphilicity of Dichlorosilylene in a Single Molecule. <i>Chemistry - A European Journal</i> , 2010, 16, 85-88.	1.7	80
8	Facile Access to the Functionalized N-Donor Stabilized Silylenes $\text{PhC}(\text{N}(\text{t-Bu})_2)_2\text{SiX}(\text{X} = \text{F}, \text{Cl}, \text{Br}, \text{I})$. <i>Journal of the American Chemical Society</i> , 2011, 133, 17552-17555.	1.1	77
9	Stabilization of Low Valent Silicon Fluorides in the Coordination Sphere of Transition Metals. <i>Journal of the American Chemical Society</i> , 2012, 134, 2423-2428.	6.6	76
10	Lewis-Base-Stabilized Dichlorosilylene: A Two-Electron σ -Donor Ligand. <i>Inorganic Chemistry</i> , 2010, 49, 775-777.	1.9	75
11	Stable Silaimines with Three- and Four-coordinate Silicon Atoms. <i>Inorganic Chemistry</i> , 2012, 51, 11049-11054.	1.9	68
12	Convenient Access to Monosilicon Epoxides with Pentacoordinate Silicon. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3952-3955.	7.2	65
13	A d^0 but for base stabilized monoalkylsilylenes. <i>Chemical Communications</i> , 2012, 48, 4561.	2.2	63
14	N-Heterocyclic Carbene Stabilized Dichlorosilylene Transition-Metal Complexes of V(I), Co(I), and Fe(0). <i>Inorganic Chemistry</i> , 2011, 50, 8502-8508.	1.9	62
15	A Facile Route to Functionalized N-Heterocyclic Carbenes (NHCs) with NHC Base-Stabilized Dichlorosilylene. <i>Journal of the American Chemical Society</i> , 2010, 132, 10018-10020.	6.6	61
16	Facile Access to Transition-Metal Carbonyl Complexes with an Amidinate-stabilized Chlorosilylene Ligand. <i>Chemistry - an Asian Journal</i> , 2012, 7, 528-533.	1.7	61
17	Neutral Penta- and Hexacoordinate N-Heterocyclic Carbene Complexes Derived from SiX_4 (X = F, Br). <i>Organometallics</i> , 2009, 28, 6374-6377.	1.1	59
18	Neutral Pentacoordinate Silicon Fluorides Derived from Amidinate, Guanidinate, and Triazapentadienate Ligands and Base-Induced Disproportionation of Si_2Cl_6 to Stable Silylenes. <i>Inorganic Chemistry</i> , 2011, 50, 358-364.	1.9	59

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19	Palladium-catalyzed Direct C2-arylation of an N-heterocyclic Carbene: An Atom-economic Route to Mesoionic Carbene Ligands. <i>Chemistry - A European Journal</i> , 2015, 21, 4247-4251.	1.7	57
20	Crystalline Radicals Derived from Classical N-heterocyclic Carbenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4765-4768.	7.2	57
21	Reactions of Stable N-Heterocyclic Silylenes with Ketones and 3,5-Di- <i>tert</i> -butyl- <i>o</i> -benzoquinone. <i>Organometallics</i> , 2011, 30, 3853-3858.	1.1	55
22	Facile access to silyl-functionalized N-heterocyclic olefins with HSiCl ₃ . <i>Chemical Communications</i> , 2013, 49, 9440.	2.2	55
23	Kekulé diradicaloids derived from a classical N-heterocyclic carbene. <i>Chemical Science</i> , 2018, 9, 4970-4976.	3.7	55
24	N-heterocyclic Carbene Analogues of Thiele and Chichibabin Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5838-5842.	7.2	55
25	Quantifying the Electronic and Steric Properties of 1,3-Imidazole-Based Mesoionic Carbenes (iMICs). <i>Organometallics</i> , 2020, 39, 1719-1729.	1.1	46
26	N-Heterocyclic Carbene Stabilized Dichlorosilimine IPr ₂ Si ⁺ NR. <i>Organometallics</i> , 2010, 29, 6329-6333.	1.1	44
27	Lewis base mediated dimerization of trichlorosilane. <i>Chemical Communications</i> , 2012, 48, 7574.	2.2	41
28	Nickel-catalysed direct C2-arylation of N-heterocyclic carbenes. <i>Dalton Transactions</i> , 2017, 46, 12027-12031.	1.6	41
29	Unprecedented Borylene Insertion into a C-N Bond. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 4921-4926.	1.0	40
30	A Modular Access to Divinyldiphosphenes with a Strikingly Small HOMO-LUMO Energy Gap. <i>Chemistry - A European Journal</i> , 2019, 25, 8127-8134.	1.7	40
31	Free Radical Reactivity of Mono- and Dichlorosilylene with Muonium. <i>Chemistry - A European Journal</i> , 2011, 17, 11970-11973.	1.7	39
32	N-heterocyclic Vinylidene-stabilized Phosphorus Biradicaloid. <i>Chemistry - A European Journal</i> , 2017, 23, 9044-9047.	1.7	39
33	The Viability of C5-Protonated and C4, C5-Ditopic Carbanionic Abnormal NHCs: A New Dimension in NHC Chemistry. <i>Chemistry - A European Journal</i> , 2018, 24, 3716-3720.	1.7	36
34	Diphosphene radical cations and dications with a π -conjugated C ₂ P ₂ C ₂ -framework. <i>Chemical Communications</i> , 2019, 55, 10408-10411.	2.2	36
35	Isolation of a Ge(I) Diradicaloid and Dihydrogen Splitting. <i>Journal of the American Chemical Society</i> , 2021, 143, 121-125.	6.6	36
36	An access to base-stabilized three-membered silicon heterocycles. <i>Dalton Transactions</i> , 2012, 41, 9601.	1.6	34

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37	Direct functionalization of white phosphorus with anionic dicarbenes and mesoionic carbenes: facile access to 1,2,3-triphosphol-2-ides. <i>Chemical Science</i> , 2019, 10, 11078-11085.	3.7	34
38	An Open-shell Singlet Sn ^I Diradical and H ₂ Splitting. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6414-6418.	7.2	34
39	Normal-to-abnormal rearrangement of an N-heterocyclic carbene with a silylene transition metal complex. <i>Dalton Transactions</i> , 2017, 46, 7791-7799.	1.6	32
40	A crystalline C5-protonated 1,3-imidazol-4-ylidene. <i>Chemical Communications</i> , 2020, 56, 2027-2030.	2.2	32
41	Abnormal-NHC Palladium(II) Complexes: Rational Synthesis, Structural Elucidation, and Catalytic Activity. <i>Organometallics</i> , 2016, 35, 3421-3429.	1.1	31
42	Diradical Character Enhancement by Spacing: N-Heterocyclic Carbene Analogues of Müller's Hydrocarbon. <i>Chemistry - A European Journal</i> , 2018, 24, 16537-16542.	1.7	31
43	Crystalline Divinyldiarsene Radical Cations and Dications. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17599-17603.	7.2	31
44	Crystalline Divinyldiarsenes and Cleavage of the As=As Bond. <i>Chemistry - A European Journal</i> , 2019, 25, 8249-8253.	1.7	31
45	Tuning the Electronic Properties of Main-Group Species by N-Heterocyclic Vinyl (NHV) Scaffolds. <i>Accounts of Chemical Research</i> , 2022, 55, 457-470.	7.6	30
46	N-Heterocyclic Carbene Adducts of Aluminium Triiodide. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 431-433.	0.6	29
47	Mono- and di-cationic hydrido boron compounds. <i>Dalton Transactions</i> , 2015, 44, 14359-14367.	1.6	29
48	Stable Carbon-Centered Radicals Based on N-Heterocyclic Carbenes. <i>Synlett</i> , 2019, 30, 1765-1775.	1.0	27
49	Facile routes to abnormal-NHC-cobalt(II) complexes. <i>Dalton Transactions</i> , 2017, 46, 7664-7667.	1.6	26
50	Silylene-Functionalized N-Heterocyclic Carbene (Si ⁺ NHC). <i>Chemistry - A European Journal</i> , 2018, 24, 380-387.	1.7	26
51	Expedient Access to Normal and Abnormal N-Heterocyclic Carbene (NHC) Magnesium Compounds from Imidazolium Salts. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 1236-1240.	0.6	23
52	Crystalline Radicals Derived from Classical N-Heterocyclic Carbenes. <i>Angewandte Chemie</i> , 2018, 130, 4855-4858.	1.6	23
53	Reaction of N-Heterocyclic Silylenes with Thioketone: Formation of Silicon-Sulfur Three- and Five-Membered Ring Systems. <i>Chemistry - A European Journal</i> , 2013, 19, 3715-3720.	1.7	22
54	Double N-H bond activation of N,N ² -bis-substituted hydrazines with stable N-heterocyclic silylene. <i>Dalton Transactions</i> , 2012, 41, 1529-1533.	1.6	21

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55	Mixed valence σ -6-arene cobalt(i) and cobalt(ii) compound. Dalton Transactions, 2013, 42, 10277.	1.6	21
56	Reactivity Studies of a Stable N-Heterocyclic Silylene with Triphenylsilanol and Pentafluorophenol. Organometallics, 2012, 31, 5506-5510.	1.1	20
57	Nickel-Catalyzed Intramolecular 1,2-Aryl Migration of Mesoionic Carbenes (iMICs). Angewandte Chemie - International Edition, 2021, 60, 2969-2973.	7.2	20
58	Isolation of a 16-Electron 1,4-Diphosphine-1,4-diene with a Planar C_4P_2 Ring. Chemistry - A European Journal, 2021, 27, 3055-3064.	1.7	20
59	Isolation of singlet carbene derived 2-phospha-1,3-butadienes and their sequential one-electron oxidation to radical cations and dications. Chemical Science, 2020, 11, 1975-1984.	3.7	19
60	Distannabarrelenes with Three Coordinated Sn^{II} Atoms. Chemistry - A European Journal, 2020, 26, 11113-11118.	1.7	19
61	Synthesis and Structure of $[PhC(NtBu)_2Ge_2(\eta^4-S)_2Cl_2]$ and a Germanium Dithiocarboxylate Analogue. Organometallics, 2011, 30, 1030-1033.	1.1	18
62	A Phosphorus Analogue of p -Quinodimethane with a Planar P_4 Ring: A Metal-Free Diphosphorus Source. Chemistry - A European Journal, 2019, 25, 3244-3247.	1.7	18
63	Advances and recent trends in dipnictenes chemistry. Coordination Chemistry Reviews, 2022, 461, 214499.	9.5	18
64	N-Heterocyclic Carbene Analogues of Thiele and Chichibabin Hydrocarbons. Angewandte Chemie, 2018, 130, 5940-5944.	1.6	17
65	Isolation of 1,4-Diarsine-1,4-diene and 1,4-Diarsine Derivatives. Angewandte Chemie - International Edition, 2021, 60, 15849-15853.	7.2	17
66	Synthesis and Spectroscopic Characterisation of Six-Coordinate Complexes of Oxovanadium(V). Transition Metal Chemistry, 2004, 29, 419-424.	0.7	16
67	Expanding the Scope of Cu(I) Catalyzed α -Click Chemistry with Abnormal NHCs: Three-Fold Click to Tris-Triazoles. Catalysts, 2017, 7, 262.	1.6	16
68	Electrophilic terminal arsinidene-iron(0) complexes with a two-coordinated arsenic atom. Chemical Communications, 2019, 55, 14669-14672.	2.2	15
69	Synthesis and structural investigation of R_2Si (R = Me, Ph) bridged di-N-heterocyclic carbenes. Dalton Transactions, 2014, 43, 13704-13710.	1.6	14
70	Isolation of singlet carbene derived 2-arsa-1,3-butadiene radical cations and dications. Chemical Communications, 2020, 56, 3575-3578.	2.2	14
71	Ein offenschaliges Singulett- Sn^I -Radikal und H_2 -Spaltung. Angewandte Chemie, 2021, 133, 6485-6489.	1.6	12
72	Metalloradical Cations and Dications Based on Divinyldiphosphene and Divinyldiarsene Ligands. Chemistry - A European Journal, 2021, 27, 5803-5809.	1.7	12

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73	Selective functionalization of a bis-silylene. <i>Chemical Communications</i> , 2013, 49, 5987.	2.2	11
74	Mesoionic Dithiolates (MIDTs) Derived from 1,3-Imidazole-Based Anionic Dicarbenes (ADCs). <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	9
75	Nickel-katalysierte intramolekulare 1,2-Aryl-Wanderung von mesoionischen Carbenen (iMICs). <i>Angewandte Chemie</i> , 2021, 133, 3006-3010.	1.6	8
76	Isolation of an Arsenic Diradicaloid with a Cyclic C ₂ As ₂ -Core. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	8
77	Crystalline phosphino-functionalized mesoionic olefins (p-MIOs). <i>Dalton Transactions</i> , 2022, 51, 8217-8222.	1.6	7
78	Crystalline Divinyldiarsene Radical Cations and Dications. <i>Angewandte Chemie</i> , 2019, 131, 17763-17767.	1.6	6
79	Saturated NHC Derived Dichalcogen Dications. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 574-579.	0.6	6
80	Isolation of Elusive Electrophilic Phosphinidene Complexes with π -Donor N-Heterocyclic Vinyl Substituents. <i>Journal of Organic Chemistry</i> , 2020, 85, 14351-14359.	1.7	6
81	Synthesis and Spectroscopic Characterization of Two Different Types of Heterobimetallic Glycolate Complexes of Niobium(V). <i>Transition Metal Chemistry</i> , 2005, 30, 836-844.	0.7	5
82	Isolierung von 1,4-Diarsinin-1,4-Diimid- und 1,4-Diarsinin-Derivaten. <i>Angewandte Chemie</i> , 2021, 133, 15988-15987.	1.5	5
83	Preparation and Spectroscopic Characterisation of a Series of Heterobimetallic N-phenyldiethanolamine-alkoxide Derivatives of Oxovanadium(V). <i>Journal of Chemical Research</i> , 2005, 2005, 352-355.	0.6	4
84	Isolierung eines Arsendiradikaloids mit einem zyklischen C ₂ As ₂ -Gerüst. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
85	Synthesis and characterisation of heterobimetallic N-(hydroxyethyl)-salicylaldimine-isopropoxide complexes of oxovanadium(V). <i>Transition Metal Chemistry</i> , 2005, 30, 268-272.	0.7	2
86	Synthesis and spectroscopic properties of homo- and heterobimetallic complexes of oxovanadium (V). <i>Journal of Chemical Sciences</i> , 2006, 118, 165-170.	0.7	2
87	Synthesis and Spectroscopic Characterisation of a New Class of Heterobimetallic Homoleptic Diethanolamine Complexes of Niobium(V) and Tantalum(V). <i>Journal of Chemical Research</i> , 2006, 2006, 451-455.	0.6	2
88	Synthesis and Spectroscopic Properties of the First Series of Heteronuclear Derivatives Containing Organosilicon/Organotin (IV) and Oxovanadium (V) Moieties. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2006, 181, 113-123.	0.8	1
89	Homometallic glycolates containing hydroxyl functionality for anchoring another metal: synthesis and characterization of heterometallic alkoxide-glycolates of Ti and Zr incorporating Al and Nb. <i>Journal of Coordination Chemistry</i> , 2016, 69, 135-148.	0.8	1
90	Synthesis and Characterisation of Some Novel Seven-membered Heterocyclic Antimony(III) Glycolate Complexes. <i>Main Group Metal Chemistry</i> , 2008, 31, .	0.6	0

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91	Unprecedented Borylene Insertion into a C-N Bond. European Journal of Inorganic Chemistry, 2014, 2014, 4908-4908.	1.0	0
92	Silylene-Functionalized N-Heterocyclic Carbene (Si ⁺ NHC). Chemistry - A European Journal, 2018, 24, 285-285.	1.7	0