

Tomás R Belderraín

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Gold Catalyst for Carbene-Transfer Reactions from Ethyl Diazoacetate. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5284-5288.	13.8	422
2	Reactivity of Ru(H)(H ₂)Cl(PCy ₃) ₂ with Propargyl and Vinyl Chlorides: A New Methodology To Give Metathesis-Active Ruthenium Carbenes. <i>Organometallics</i> , 1997, 16, 3867-3869.	2.3	173
3	Cyclohexane and Benzene Amination by Catalytic Nitrene Insertion into C-H Bonds with the Copper-Homoscorpionate Catalyst TpBr ₃ Cu(NCMe). <i>Journal of the American Chemical Society</i> , 2003, 125, 12078-12079.	13.7	160
4	Reaction between Ruthenium(0) Complexes and Dihalo Compounds. A New Method for the Synthesis of Ruthenium Olefin Metathesis Catalysts. <i>Organometallics</i> , 1997, 16, 4001-4003.	2.3	144
5	Intermolecular Copper-Catalyzed Carbon-Hydrogen Bond Activation via Carbene Insertion. <i>Journal of the American Chemical Society</i> , 2002, 124, 896-897.	13.7	139
6	Highly Regioselective Functionalization of Aliphatic Carbon-Hydrogen Bonds with a Perbromohomoscorpionate Copper(I) Catalyst. <i>Journal of the American Chemical Society</i> , 2003, 125, 1446-1447.	13.7	122
7	Complete Control of the Chemoselectivity in Catalytic Carbene Transfer Reactions from Ethyl Diazoacetate: An N-Heterocyclic Carbene-Cu System That Suppresses Diazo Coupling. <i>Journal of the American Chemical Society</i> , 2004, 126, 10846-10847.	13.7	115
8	Atom Transfer Radical Reactions as a Tool for Olefin Functionalization – On the Way to Practical Applications. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3155-3164.	2.0	113
9	Regioselective Allene Hydrosilylation Catalyzed by N-Heterocyclic Carbene Complexes of Nickel and Palladium. <i>Journal of the American Chemical Society</i> , 2013, 135, 15282-15285.	13.7	107
10	Functionalization of Primary Carbon-Hydrogen Bonds of Alkanes by Carbene Insertion with a Silver-Based Catalyst. <i>Organometallics</i> , 2005, 24, 1528-1532.	2.3	102
11	Copper(I)-Homoscorpionate Catalysts for the Preferential, Kinetically Controlled Cis Cyclopropanation of \pm -Olefins with Ethyl Diazoacetate. <i>Journal of the American Chemical Society</i> , 2002, 124, 978-983.	13.7	98
12	Copper-Homoscorpionate Complexes as Very Active Catalysts for the Olefin Aziridination Reaction. <i>Organometallics</i> , 2004, 23, 253-256.	2.3	94
13	Catalytic insertion of diazo compounds into N-H bonds: the copper alternative. <i>Chemical Communications</i> , 2002, , 2998-2999.	4.1	86
14	Catalytic Dehalogenation of Aryl Chlorides Mediated by Ruthenium(II) Phosphine Complexes. <i>Organometallics</i> , 1999, 18, 1299-1304.	2.3	76
15	Synthesis, Structural Characterization, and Catalytic Activity of IPrNi(styrene) ₂ in the Amination of Aryl Tosylates. <i>Organometallics</i> , 2012, 31, 6312-6316.	2.3	74
16	Copper-Catalyzed N-F Bond Activation for Uniform Intramolecular C-H Amination Yielding Pyrrolidines and Piperidines. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8912-8916.	13.8	71
17	Functionalization of Carbon-Hydrogen Bonds of Hydrocarbons and Ethers via Carbene Insertion with Copper(I)-Homoscorpionate Catalysts. <i>Organometallics</i> , 2003, 22, 4145-4150.	2.3	69
18	Unprecedented Highly cis-Diastereoselective Olefin Cyclopropanation Using Copper Homoscorpionate Catalysts. <i>Journal of the American Chemical Society</i> , 2001, 123, 3167-3168.	13.7	68

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19	A series of ruthenium(II) ester-carbene complexes as olefin metathesis initiators: metathesis of acrylates. <i>Tetrahedron Letters</i> , 2000, 41, 4689-4693.	1.4	67
20	The carbene insertion methodology for the catalytic functionalization of unreactive hydrocarbons: No classical C-H activation, but efficient C-H functionalization. <i>Dalton Transactions</i> , 2006, , 5559-5566.	3.3	66
21	Kinetics of the BpCu-Catalyzed Carbene Transfer Reaction (Bp = Dihydridobis(1-pyrazolyl)borate). Is a 14-Electron Species the Real Catalyst for the General Copper-Mediated Olefin Cyclopropanation?. <i>Organometallics</i> , 1999, 18, 2601-2609.	2.3	65
22	A family of highly active copper(I)-homoscorpionate catalysts for the alkyne cyclopropanation reaction. <i>Chemical Communications</i> , 2001, , 1804-1805.	4.1	63
23	Discovering Copper for Methane C-H Bond Functionalization. <i>ACS Catalysis</i> , 2015, 5, 3726-3730.	11.2	63
24	Reaction of Ethyl Diazoacetate with Alkyl-Aromatic Substrates: Influence of the TpxCu Catalyst in the Addition versus Insertion Chemoselectivity (Tpx = Homoscorpionate). <i>Organometallics</i> , 2004, 23, 293-295.	2.3	57
25	Copper-Catalyzed Synthesis of 1,2-Disubstituted Cyclopentanes from 1,6-Dienes by Ring-Closing Kharasch Addition of Carbon Tetrachloride. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2365-2372.	4.3	55
26	Elucidating the Mechanism of Aryl Aminations Mediated by NHC-Supported Nickel Complexes: Evidence for a Nonradical Ni(0)/Ni(II) Pathway. <i>ACS Catalysis</i> , 2018, 8, 3733-3742.	11.2	53
27	Convenient Synthesis of Ruthenium(II) Dihydride Phosphine Complexes Ru(H) ₂ (PP) ₂ and Ru(H) ₂ (PR ₃) _x (x=1, 2, 3). <i>Journal of Organometallic Chemistry</i> , 2001, 611, 1-14.	2.3	52
28	Copper-Homoscorpionate Complexes as Active Catalysts for Atom Transfer Radical Addition to Olefins. <i>Inorganic Chemistry</i> , 2007, 46, 7725-7730.	4.0	52
29	Copper-Carbene Intermediates in the Copper-Catalyzed Functionalization of O-H Bonds. <i>Chemistry - A European Journal</i> , 2015, 21, 9769-9775.	3.3	48
30	From Homogeneous to Heterogeneous Catalysis: Novel Anchoring of Polypyrazolylborate Copper(I) Complexes on Silica Gel through Classical and Nonclassical Hydrogen Bonds. Use as Catalysts of the Olefin Cyclopropanation Reaction. <i>Organometallics</i> , 2000, 19, 285-289.	2.3	47
31	Ion beam induced chemical vapor deposition for the preparation of thin film oxides. <i>Thin Solid Films</i> , 1994, 241, 198-201.	1.8	41
32	Copper-Catalyzed Carbene Insertion into O-H Bonds: High Selective Conversion of Alcohols into Ethers. <i>Organometallics</i> , 2003, 22, 2914-2918.	2.3	40
33	Trispyrazolylborate coinage metals complexes: Structural features and catalytic transformations. <i>Coordination Chemistry Reviews</i> , 2019, 390, 171-189.	18.8	40
34	Three-Center, Two-Electron M-A-H-B Bonds in Complexes of Ni, Co, and Fe and the Dihydrobis(3-tert-butylpyrazolyl)borate Ligand. <i>Inorganic Chemistry</i> , 2002, 41, 425-428.	4.0	38
35	C-N Coupling of Indoles and Carbazoles with Aromatic Chlorides Catalyzed by a Single-Component Ni(0) Precursor. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 907-911.	4.3	37
36	An Efficient, Selective, and Reducing Agent-Free Copper Catalyst for the Atom-Transfer Radical Addition of Halo Compounds to Activated Olefins. <i>Inorganic Chemistry</i> , 2010, 49, 642-645.	4.0	36

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37	Mechanistic and Computational Studies of the Atom Transfer Radical Addition of CCl ₄ to Styrene Catalyzed by Copper Homoscorpionate Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 2458-2467.	4.0	36
38	Copper-Catalyzed Addition of Ethyl Diazoacetate to Furans: An Alternative to Dirhodium(II) Tetraacetate. <i>Journal of Organic Chemistry</i> , 2005, 70, 6101-6104.	3.2	34
39	Polypyrazolylborate copper(i) complexes as catalysts of the homogeneous and heterogeneous styrene epoxidation reaction. <i>Chemical Communications</i> , 2000, , 1853-1854.	4.1	32
40	Copper(II)-Olefin Complexes: The Effect of the Trispyrazolylborate Ancillary Ligand in Structure and Reactivity. <i>Organometallics</i> , 2010, 29, 3481-3489.	2.3	32
41	Cu(i)-catalyzed atom transfer radical cyclization of trichloroacetamides tethered to electron-deficient, -neutral, and -rich alkenes: synthesis of polyfunctionalized 2-azabicyclo[3.3.1]nonanes. <i>Chemical Communications</i> , 2012, 48, 8799.	4.1	31
42	Formation of Palladium- and Platinum-Substituted Fulvenes by Activation of a Cyclopentadienyl or Indenyl Ligand. <i>Organometallics</i> , 1998, 17, 5620-5629.	2.3	27
43	Dioxomolybdenum(VI) Complexes with New Enantiomerically Pure Amino Diol Ligands. <i>Inorganic Chemistry</i> , 1996, 35, 3362-3368.	4.0	24
44	Rediscovering copper-based catalysts for intramolecular carbon-hydrogen bond functionalization by carbene insertion. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 4777.	2.8	24
45	Functionalization of C _n H _{2n+2} Alkanes: Supercritical Carbon Dioxide Enhances the Reactivity towards Primary Carbon-Hydrogen Bonds. <i>ChemCatChem</i> , 2015, 7, 3254-3260.	3.7	23
46	Hydrotris(3-mesitylpyrazolyl)borato-copper(i) alkyne complexes: synthesis, structural characterization and rationalization of their activities as alkyne cyclopropanation catalysts. <i>Dalton Transactions</i> , 2012, 41, 5319.	3.3	22
47	Silver-Catalyzed Functionalization of Esters by Carbene Transfer: The Role of Ylide Zwitterionic Intermediates. <i>ChemCatChem</i> , 2014, 6, 2206-2210.	3.7	22
48	Phosphine-functionalized NHC Ni(II) and Ni(0) complexes: synthesis, characterization and catalytic properties. <i>Dalton Transactions</i> , 2017, 46, 7603-7611.	3.3	21
49	Triazolylidene-Rhodium Complexes with a Pendant Pyridyl Group for Cooperative Metal-Ligand Induced Catalytic Dehydrogenation of Amines. <i>Chemistry - A European Journal</i> , 2017, 23, 8901-8911.	3.3	20
50	Two Copper-Carbenes from One Diazo Compound. <i>Journal of the American Chemical Society</i> , 2021, 143, 4837-4843.	13.7	20
51	The Effect of Catalyst Loading in Copper-Catalyzed Cyclohexane Functionalization by Carbene Insertion. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 2848-2852.	2.0	18
52	Stable N-Heterocyclic Carbene (NHC)-Palladium(0) Complexes as Active Catalysts for Olefin Cyclopropanation Reactions with Ethyl Diazoacetate. <i>Chemistry - A European Journal</i> , 2011, 17, 14885-14895.	3.3	17
53	Phototransformation of benzimidazole and thiabendazole inside cucurbit[8]uril. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 310-315.	2.9	17
54	Formation of Palladium- and Platinum-Substituted Fulvenes by Cyclopentadienyl Activation in a Formal Insertion Reaction. <i>Organometallics</i> , 1997, 16, 301-303.	2.3	16

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55	Alkane Dehydrogenation by Sequential, Double C-H Bond Activation by TpBr3Ir(C2H4)2(TpBr3=) Tj ETQq1 1 0.784314 rgBT/Overlo	2.3	15
56	Group 11 tris(pyrazolyl)methane complexes: structural features and catalytic applications. Dalton Transactions, 2019, 48, 10772-10781.	3.3	15
57	Alkylidenes by .alpha.-hydrogen abstraction from metallacycles. Synthesis and characterization of alkylidene-bridged complexes of nickel. Organometallics, 1993, 12, 4431-4442.	2.3	14
58	Synthesis, Characterization, and Reactivity of Ruthenium Diene/Diamine Complexes Including Catalytic Hydrogenation of Ketones. Inorganic Chemistry, 2007, 46, 9405-9414.	4.0	14
59	Copper-catalysed radical reactions of alkenes, alkynes and cyclopropanes with Nâ€F reagents. Organic and Biomolecular Chemistry, 2020, 18, 8757-8770.	2.8	14
60	Bis- And tris(pyrazolyl)borate complexes of the heavier alkaline-earth elements Ca, Sr and Ba. Polyhedron, 1996, 15, 3453-3463.	2.2	13
61	Efficient Atom-Transfer Radical Polymerization of Methacrylates Catalyzed by Neutral Copper Complexes. Macromolecules, 2010, 43, 3221-3227.	4.8	13
62	Eine Kupferâ€katalysierte Nâ€Fâ€Bindungsaktivierung fÃ¼r die einheitliche intramolekulare Câ€Hâ€Aminierung zu Pyrrolidinen und Piperidinen. Angewandte Chemie, 2019, 131, 9004-9009.	2.0	13
63	Ethoxycarbonyl-, cyano- and methoxy-methyl complexes of nickel(II) and their carbonylation reactions. Journal of the Chemical Society Dalton Transactions, 1992, , 1491-1495.	1.1	12
64	Intramolecular dealkylation of chelating diamines with Ru(ii) complexes. Chemical Communications, 2002, , 1848-1849.	4.1	12
65	An Effective Dual Copperâ€and Sulfideâ€Catalytic System for the Epoxidation of Aldehydes with Phenyl diazomethane. Advanced Synthesis and Catalysis, 2013, 355, 2942-2951.	4.3	12
66	X-ray crystal structure of [Ni{Î²-C(NBut)CH(SiMe3)2}Cl(PMe3)], the first structurally characterized Î²-alkaneimido complex of nickel. Polyhedron, 1995, 14, 323-326.	2.2	10
67	Barium and titanium aryl oxides as precursors for the preparation of thin-film oxides. The effect of bombardment by O2+. Journal of the Chemical Society Dalton Transactions, 1995, , 1529-1536.	1.1	10
68	The Elusive Palladiumâ€Diazo Adduct Captured: Synthesis, Isolation and Structural Characterization of [(ArNHCâ€PPh₂)²Pd(Î²-N₂C(Ph)CO₂Et)]. Chemistry - A European Journal, 2017, 23, 7667-7671.	3.3	9
69	Synthesis and structural characterization of volatile poly(3,5-dimethyl-1-pyrazolyl)-borate-complexes of Ca, Sr, and Ba. Journal of Organometallic Chemistry, 1994, 474, C5-C7.	1.8	7
70	Alkyl and alkaneimido derivatives of Nickel(II) That contain the bulky CH(SiMe3)2 Group. Polyhedron, 1996, 15, 3501-3509.	2.2	7
71	Hydrotrispyrazolylborate-copper complexes as catalysts for the styrene cyclopropanation reaction with ethyl diazoacetate under homogeneous and heterogeneous conditions. Inorganica Chimica Acta, 2009, 362, 4599-4602.	2.4	7
72	Synthesis and reactivity studies of Pd(II) complexes of the bulky CH(SiMe3)2 group. X ray structure of the indenyl derivative (Î²-Ind)Pd[CH(SiMe3)2](PMe3). Journal of Organometallic Chemistry, 1999, 577, 316-322.	1.8	6

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73	Favoring Alkane Primary Carbon-Hydrogen Bond Functionalization in Supercritical Carbon Dioxide as Reaction Medium. ACS Sustainable Chemistry and Engineering, 2019, 7, 7346-7352.	6.7	5
74	Mechanistic Studies on the Synthesis of Pyrrolidines and Piperidines via Copper-Catalyzed Intramolecular C-H Amination. Organometallics, 2022, 41, 1099-1105.	2.3	4
75	Catalytic Insertion of Diazo Compounds into N-H Bonds: The Copper Alternative.. ChemInform, 2003, 34, no.	0.0	0
76	Copper-Homoscorpionate Complexes as Very Active Catalysts for the Olefin Aziridination Reaction.. ChemInform, 2004, 35, no.	0.0	0
77	Copper-Catalyzed Addition of Ethyl Diazoacetate to Furans: An Alternative to Dirhodium(II) Tetraacetate.. ChemInform, 2005, 36, no.	0.0	0