

## PEDRO J. PÉREZ LIST OF PUBLICATION (INDEPENDENT CAREER)

	Title	Journal	Year	Vol	Page init	Page end	DOI
188	Methane Catalytic Amidation via a Plausible Copper-Nitrene Intermediate	<i>J. Am. Chem. Soc.</i>	2026	148	9057	9065	10.1021/jacs.5c22747
187	Methane Catalytic Amidation via a Plausible Copper-Nitrene Intermediate	<i>J. Am. Chem. Soc.</i>	2026	148	9057	9065	10.1021/jacs.5c22747
186	Functionalization of Polyolefins via Catalytic Nitrene Addition	<i>Angew. Chem. Int. Ed.</i>	2025	64	e22659		10.1002/anie.202522659
185	Weak interactions are crucial for better enantioselections	<i>Chem Catalysis</i>	2025	5	101496		10.1016/j.checat.2025.101496
184	Catalyst-Directed Selectivity in Vinylcarbene Reactions: A Comparative Study of Ag, Rh, and Cu Complexes	<i>Adv. Synth. Cat.</i>	2025	367	e70007		10.1002/adsc.70007
183	Efficient Synthesis of Amino Lactones via Copper-catalysed Alkene Aminooxygenation	<i>Adv. Synth. Cat.</i>	2025	367	e202500062		10.1002/adsc.202500062
182	Introducing the Aziridination of Fluorinated Olefins by Metal-Catalyzed Nitrene Transfer	<i>Angew. Chem. Int. Ed.</i>	2025	64	e202419188		10.1002/anie.202419188
181	Copper and Silver Trispyrazolylborate-Phosphinoazide Complexes: Synthesis, Characterization, and Nitrene Generation	<i>Inorg. Chem.</i>	2025	64	151	157	10.1021/acs.inorgchem.4c04397

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180	Alkanes C1-C6 C-H Bond Activation via a Barrierless Potential Energy Path: Trifluoromethyl Carbenes Enhance Primary C-H Bond Functionalization	<i>J. Am. Chem. Soc.</i>	2024	146	34014	34022	10.1021/jacs.4c13065
179	A copper-masked monosubstituted carbene as a general transmetalating agent toward stable carbene complexes	<i>Chem</i>	2024	10			10.1016/j.chempr.2024.03.009
178	Selective C-H Bond Functionalization of Unprotected Indoles by Donor-Acceptor Carbene Insertion	<i>Adv. Synth. Cat.</i>	2024	366	844	851	10.1002/adsc.202300252
177	Molecular Dynamic Simulations of Aqueous Micellar Organometallic Catalysis: Methane Functionalization as a Case Study	<i>Angew. Chem. Int. Ed.</i>	2024	63	e202314773		10.1002/anie.202314773
176	Copper-Catalyzed Sulfimidation in Aqueous Media: a Fast, Chemoselective and Biomolecule-Compatible Reaction	<i>Chem. Eur. J.</i>	2024	30			10.1002/chem.202303939
175	Rare Gold-Catalyzed 4-exodig Cyclization for Ring Expansion of Propargylic Aziridines toward Stereoselective Z-Alkylidene Azetidines, via Diborylalkyl Homopropargyl Amines	<i>Org. Lett.</i>	2024	26	7535	7540	10.1021/acs.orglett.4c02415
174	Efficient Ru-Catalyzed Transfer Hydrogenation of Bulky Ketones Imparted by a Monosubstituted Amino-Carbene Ligand	<i>Organometallics</i>	2024	43	2843	2849	10.1021/acs.organomet.4c00398

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173	Introducing 1,3-enyne functionalization by nitrene transfer reaction	<i>Chem Catalysis</i>	<b>2024</b>	4			10.1016/j.checat.2023.100865
172	Intramolecular Interception of the Remote Position of Vinylcarbene Silver Complex Intermediates by C(sp <sup>3</sup> )-H Bond Insertion	<i>Angew. Chem. Int. Ed.</i>	<b>2023</b>	62	e202215163		10.1002/anie.202215163
171	The catalytic nitrene-oxo transfer battle in water as solvent	<i>Chem Catalysis</i>	<b>2023</b>	3			10.1016/j.checat.2023.100712
170	Non-innocent Role of the Halide Ligand in the Copper-Catalyzed Olefin Aziridination Reaction	<i>ACS Catalysis</i>	<b>2023</b>	13	706	713	10.1021/acscatal.2c05069
169	Maurice Brookhart: A Legacy to Organometallic Chemistry	<i>Organometallics</i>	<b>2022</b>	41	3073	3083	10.1021/acs.organomet.2c00415
168	Gold nanoparticle-catalysed functionalization of carbon-hydrogen bonds by carbene transfer reactions	<i>Dalton Trans.</i>	<b>2022</b>	51	5250	5256	10.1039/d1dt04351j
167	(NHC)M Cores as Catalysts for the Olefin Aziridination Reaction (M = Cu, Ag, Au): Evidencing a Concerted Mechanism for the Nitrene Transfer Process	<i>Organometallics</i>	<b>2022</b>	41	3349	3355	10.1021/acs.organomet.2c00310

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166	Mechanistic Studies on the Synthesis of Pyrrolidines and Piperidines via Copper-Catalyzed Intramolecular C-H Amination	<i>Organometallics</i>	<b>2022</b>	41	1099	1105	10.1021/acs.organomet.2c00095
165	Direct Benzene Hydroxylation with Dioxygen Induced by Copper Complexes: Uncovering the Active Species by DFT Calculations	<i>Organometallics</i>	<b>2022</b>	41	1892	1904	10.1021/acs.organomet.2c00202
164	Selective Functionalization of Arene C(sp <sup>2</sup> )-H Bonds by Gold Catalysis: The Role of Carbene Substituents	<i>ACS Catalysis</i>	<b>2022</b>	12	6851	6856	10.1021/acscatal.2c01713
163	Introducing the Catalytic Amination of Silanes via Nitrene Insertion	<i>J. Am. Chem. Soc.</i>	<b>2022</b>	144	10608	10614	10.1021/jacs.2c03739
162	Carbene-Controlled Regioselective Functionalization of Linear Alkanes under Silver Catalysis	<i>J. Am. Chem. Soc.</i>	<b>2022</b>	144	23275	23279	10.1021/jacs.2c11707
161	Micellar Catalysis as a Tool for C-H Bond Functionalization toward C-C Bond Formation	<i>Organometallics</i>	<b>2022</b>	41	3084	3098	10.1021/acs.organomet.2c00309
160	Graphene-Supported, Well-Defined Metal-Based Catalysts for C-H Bond Functionalization and Related Reactions	<i>Adv. Synth. Cat.</i>	<b>2021</b>				10.1002/adsc.202001325

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159	Heterogeneous Olefin Aziridination Reactions Catalyzed by Polymer-Bound Tris(triazolyl)methane Copper Complexes	<i>Eur. J. Inorg. Chem.</i>	2021		3727	3730	10.1002/ejic.202100526
158	Make It Green: Copper-Catalyzed Olefin Aziridination in Water with an Iminoiodonane	<i>Eur. J. Inorg. Chem.</i>	2021		5091	5095	10.1002/ejic.202100825
157	Development of Molecular Complexity through Nitrene-Transfer Reactions Catalyzed by Copper and Silver Scorpionate Complexes	<i>Synlett</i>	2021	32	763	774	10.1055/s-0040-1706534
156	Copper-Catalyzed Dehydrogenative Amidation of Light Alkanes	<i>Angew. Chem. Int. Ed.</i>	2021	60	18467	18471	10.1002/anie.202104737
155	Recent Advances in Copper-Catalyzed Radical C-H Bond Activation Using N-F Reagents	<i>Synthesis-Stuttgart</i>	2021	53	51	64	10.1055/s-0040-1707234
154	Two Copper-Carbenes from One Diazo Compound	<i>J. Am. Chem. Soc.</i>	2021	143	4837	4843	10.1021/jacs.1c01483
153	Metal-Catalyzed Postpolymerization Strategies for Polar Group Incorporation into Polyolefins Containing C-C, C=C, and Aromatic Rings	<i>Macromolecules</i>	2021	54	4971	4985	10.1021/acs.macromol.1c00374
152	Pyrrole Functionalization by Copper-Catalyzed Nitrene Transfer Reactions	<i>Isr. J. Chem.</i>	2020	60	485	489	10.1002/ijch.201900181

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151	Gold Complexes with ADAP Ligands: Effect of Bulkiness in Catalytic Carbene Transfer Reactions (ADAP = Alkoxydiaminophosphine)	<i>Organometallics</i>	2020	39	2553	2559	10.1021/acs.organomet.0c00343
150	Alkoxydiaminophosphine Ligands as Surrogates of NHCs in Copper Catalysis	<i>Chem. Eur. J.</i>	2020	26	10330	10335	10.1002/chem.202001517
149	The TpxM Core in Csp <sup>3</sup> -H Bond Functionalization Reactions: Comparing Carbene, Nitrene, and Oxo Insertion Processes (Tpx = Scorpionate Ligand; M = Cu, Ag)	<i>Eur. J. Inorg. Chem.</i>	2020	2020	879	885	10.1002/ejic.201901168
148	Aerobic intramolecular carbon-hydrogen bond oxidation promoted by Cu(I) complexes	<i>Dalton Trans.</i>	2020	49	14647	14655	10.1039/d0dt03198d
147	Copper-Catalyzed Selective Pyrrole Functionalization by Carbene Transfer Reaction	<i>Adv. Synth. Cat.</i>	2020	362	1998	2004	10.1002/adsc.201901629
146	Copper-catalysed radical reactions of alkenes, alkynes and cyclopropanes with N-F reagents	<i>Org. Biomol. Chem.</i>	2020	18	8757	8770	10.1039/d0ob01743d
145	A Quantitative Model for Alkane Nucleophilicity Based on C-H Bond Structural/Topological Descriptors	<i>Angew. Chem. Int. Ed.</i>	2020	59	3112	3116	10.1002/anie.201914386
144	Intermolecular Allene Functionalization by Silver-Nitrene Catalysis	<i>J. Am. Chem. Soc.</i>	2020	142	13062	13071	10.1021/jacs.0c04395

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143	In My Element: Copper	<i>Chem. Eur. J.</i>	2019	25	6650	6650	10.1002/chem.201901429
142	Favoring Alkane Primary Carbon-Hydrogen Bond Functionalization in Supercritical Carbon Dioxide as Reaction Medium	<i>ACS Sustain. Chem. Eng.</i>	2019	7	7346	7352	10.1021/acssuschemeng.9b00523
141	Gold-catalyzed ethylene cyclopropanation	<i>Bielstein J. Org. Chem.</i>	2019	15	67	71	10.3762/bjoc.15.7
140	Trispyrazolylborate Ligands Supported on Vinyl Addition Polynorbornenes and Their Copper Derivatives as Recyclable Catalysts	<i>Chem. Eur. J.</i>	2019	25	556	563	10.1002/chem.201803852
139	Ruthenium-Catalyzed Heck-Type Alkenylation of Alkyl Bromides	<i>J. Org. Chem.</i>	2019	84	8289	8296	10.1021/acs.joc.9b00898
138	Improving Catalyst Activity in Hydrocarbon Functionalization by Remote Pyrene-Graphene Stacking	<i>Chem. Eur. J.</i>	2019	25	9534	9539	10.1002/chem.201900964
137	Methane functionalization in water with micellar catalysis	<i>Chem. Commun.</i>	2019	55	11243	11246	10.1039/c9cc05449a
136	Molybdenum and tungsten complexes with carbon dioxide and ethylene ligands	<i>Chem. Sci.</i>	2019	10	8541	8546	10.1039/c9sc03225h
135	Coinage metal complexes bearing fluorinated N-Heterocyclic carbene ligands	<i>J. Organomet. Chem.</i>	2019	898			10.1016/j.jorganchem.2019.07.007

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134	Group 11 tris(pyrazolyl)methane complexes: structural features and catalytic applications	<i>Dalton Trans.</i>	<b>2019</b>	48	10772	10781	10.1039/c9dt01661a
133	Trispyrazolylborate coinage metals complexes: Structural features and catalytic transformations	<i>Coord. Chem. Rev.</i>	<b>2019</b>	390	171	189	10.1016/j.ccr.2019.03.013
132	Copper-Catalyzed N-F Bond Activation for Uniform Intramolecular C-H Amination Yielding Pyrrolidines and Piperidines	<i>Angew. Chem. Int. Ed.</i>	<b>2019</b>	58	8912	8916	10.1002/anie.201902716
131	Alkenyl Boronates: Synthesis and Applications	<i>Chem. Asian. J.</i>	<b>2019</b>	14	329	343	10.1002/asia.201801559
130	Multigram Synthesis of Thallium Trispyrazolylborate Compounds	<i>Synthesis-Stuttgart</i>	<b>2018</b>	50	3333	3336	10.1055/s-0037-1610106
129	Copper(I)-Arene Complexes with a Sterically Hindered Tris(pyrazolyl)borate Ligand	<i>Eur. J. Inorg. Chem.</i>	<b>2018</b>		2026	2030	10.1002/ejic.201800176
128	Catalytic Functionalization of C-H Bonds of Azulene by Carbene/Nitrene Incorporation	<i>J. Org. Chem.</i>	<b>2018</b>	83	11125	11132	10.1021/acs.joc.8b01731
127	Mechanism of the Selective Fe-Catalyzed Arene Carbon-Hydrogen Bond Functionalization	<i>ACS Catalysis</i>	<b>2018</b>	8	4313	4322	10.1021/acscatal.7b03935

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126	Measuring the Relative Reactivity of the Carbon-Hydrogen Bonds of Alkanes as Nucleophiles	<i>Angew. Chem. Int. Ed.</i>	<b>2018</b>	57	13848	13852	10.1002/anie.201807448
125	Discrete Cu(I) complexes for azide-alkyne annulations of small molecules inside mammalian cells	<i>Chem. Sci.</i>	<b>2018</b>	9	1947	1952	10.1039/c7sc04643j
124	Enantio- and Diastereoselective Cyclopropanation of 1-Alkenylboronates: Synthesis of 1-Boryl-2,3-Disubstituted Cyclopropanes	<i>Angew. Chem. Int. Ed.</i>	<b>2018</b>	57	2334	+	10.1002/anie.201710415
123	Alkane Carbon-Hydrogen Bond Functionalization as a Tool Toward a Steric Parameter for Hydrotris(pyrazolyl)borate (Tpx) Ligands	<i>Isr. J. Chem.</i>	<b>2017</b>	57	1047	1052	10.1002/ijch.201700110
122	The Elusive Palladium-Diazo Adduct Captured: Synthesis, Isolation and Structural Characterization of [(ArNHC-PPh <sub>2</sub> Pd(η <sup>2</sup> -N <sub>2</sub> C(Ph)CO <sub>2</sub> Et)]	<i>Chem. Eur. J.</i>	<b>2017</b>	23	7667	7671	10.1002/chem.201701362
121	Triazolylidene-Iridium Complexes with a Pendant Pyridyl Group for Cooperative Metal-Ligand Induced Catalytic Dehydrogenation of Amines	<i>Chem. Eur. J.</i>	<b>2017</b>	23	8901	8911	10.1002/chem.201700676

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120	Catalytic Nitrene Transfer To Alkynes: A Novel and Versatile Route for the Synthesis of Sulfinamides and Isothiazoles	<i>Angew. Chem. Int. Ed.</i>	<b>2017</b>	56	12842	+	10.1002/anie.201705664
119	A competing, dual mechanism for catalytic direct benzene hydroxylation from combined experimental-DFT studies	<i>Chem. Sci.</i>	<b>2017</b>	8	8373	8383	10.1039/c7sc02898a
118	Water as the Reaction Medium for Intermolecular C-H Alkane Functionalization in Micellar Catalysis	<i>ACS Catalysis</i>	<b>2017</b>	7	3707	3711	10.1021/acscatal.6b03669
117	Dimensioning the Term Carbenoid	<i>Chem. Eur. J.</i>	<b>2017</b>	23	14389	14393	10.1002/chem.201702392
116	Mechanistic Studies on Gold-Catalyzed Direct Arene C-H Bond Functionalization by Carbene Insertion: The Coinage-Metal Effect	<i>Organometallics</i>	<b>2017</b>	36	172	179	10.1021/acs.organomet.6b00604
115	Functional-Group-Tolerant, Silver-Catalyzed N-N Bond Formation by Nitrene Transfer to Amines	<i>J. Am. Chem. Soc.</i>	<b>2017</b>	139	2216	2223	10.1021/jacs.6b08219
114	Copper-induced ammonia N-H functionalization	<i>Dalton Trans.</i>	<b>2016</b>	45	14628	14633	10.1039/c5dt04972e
113	Homogeneous Metal-Based Catalysis in Supercritical Carbon Dioxide as Reaction Medium	<i>ACS Catalysis</i>	<b>2016</b>	6	4265	4280	10.1021/acscatal.6b00848

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112	Synthesis and catalytic applications of 1,2,3-triazolylidene gold(I) complexes in silver-free oxazoline syntheses and C-H bond activation	<i>Dalton Trans.</i>	2016	45	14591	14602	10.1039/c6dt02181f
111	Iron and Manganese Catalysts for the Selective Functionalization of Arene C(sp <sup>2</sup> )-H Bonds by Carbene Insertion	<i>Angew. Chem. Int. Ed.</i>	2016	55	6530	6534	10.1002/anie.201601750
110	Gold and diazo reagents: a fruitful tool for developing molecular complexity	<i>Chem. Commun.</i>	2016	52	7326	7335	10.1039/c6cc01958g
109	Evidencing an inner-sphere mechanism for NHC-Au(I)-catalyzed carbene-transfer reactions from ethyl diazoacetate	<i>Bielstein J. Org. Chem.</i>	2015	11	2254	2260	10.3762/bjoc.11.245
108	Direct Synthesis of Hemiaminal Ethers via a Three-Component Reaction of Aldehydes, Amines and Alcohols	<i>Adv. Synth. Cat.</i>	2015	357	2821	2826	10.1002/adsc.201500588
107	Functionalization of Alkanes: Supercritical Carbon Dioxide Enhances the Reactivity towards Primary Carbon-Hydrogen Bonds	<i>ChemCatChem</i>	2015	7	3254	3260	10.1002/cctc.201500610
106	Catalyst design in the alkane C-H bond functionalization of alkanes by carbene insertion with TpxM complexes (Tpx = hydrotrispyrazolylborate ligand; M = Cu, Ag)	<i>J. Organomet. Chem.</i>	2015	793	108	113	10.1016/j.jorganchem.2015.02.029

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105	Chiral, Sterically Demanding N-Heterocyclic Carbenes Fused into a Heterobiaryl Skeleton: Design, Synthesis, and Structural Analysis	<i>Organometallics</i>	2015	34	1328	1338	10.1021/acs.organomet.5b00046
104	A computational view on the reactions of hydrocarbons with coinage metal complexes	<i>J. Organomet. Chem.</i>	2015	784	2	12	10.1016/j.jorganchem.2014.10.009
103	A fully recyclable heterogenized Cu catalyst for the general carbene transfer reaction in batch and flow	<i>Chem. Sci.</i>	2015	6	1510	1515	10.1039/c4sc03277b
102	Copper-Carbene Intermediates in the Copper-Catalyzed Functionalization of O-H Bonds	<i>Chem. Eur. J.</i>	2015	21	9769	9775	10.1002/chem.201500776
101	Discovering Copper for Methane C-H Bond Functionalization	<i>ACS Catalysis</i>	2015	5	3726	3730	10.1021/acscatal.5b00718
100	Catalytic functionalization of low reactive C(sp <sup>3</sup> )-H and C(sp <sup>2</sup> )-H bonds of alkanes and arenes by carbene transfer from diazo compounds	<i>Dalton Trans.</i>	2015	44	20295	20307	10.1039/c5dt03450g
99	Copper-catalysed azide-alkyne cycloadditions (CuAAC): an update	<i>Org. Biomol. Chem.</i>	2015	13	9528	9550	10.1039/c5ob01457c

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98	Silver-Catalyzed Functionalization of Esters by Carbene Transfer: The Role of Ylide Zwitterionic Intermediates	<i>Chemcatchem</i>	2014	6	2206	2210	10.1002/cctc.201402241
97	Catalytic Copper-Mediated Ring Opening and Functionalization of Benzoxazoles	<i>ACS Catalysis</i>	2014	4	4215	4222	10.1021/cs5012519
96	Catalytic Functionalization of Methane and Light Alkanes in Supercritical Carbon Dioxide	<i>Chem. Eur. J.</i>	2014	20	11013	11018	10.1002/chem.201403217
95	1,2,3-Triazoles from carbonyl azides and alkynes: filling the gap	<i>Chem. Commun.</i>	2014	50	8978	8981	10.1039/c4cc03614j
94	Syntheses of a Novel Fluorinated Trisphosphinoborate Ligand and Its Copper and Silver Complexes. Catalytic Activity toward Nitrene Transfer Reactions	<i>Inorg. Chem.</i>	2014	53	3991	3999	10.1021/ic4028223
93	Synthesis, Structural Characterization, Reactivity, and Catalytic Properties of Copper(I) Complexes with a Series of Tetradentate Tripodal Tris(pyrazolylmethyl)amine Ligands	<i>Inorg. Chem.</i>	2014	53	4192	4201	10.1021/ic500311y
92	Reaction of Alkynes and Azides: Not Triazoles Through Copper-Acetylides but Oxazoles Through Copper-Nitrene Intermediates	<i>Chem. Eur. J.</i>	2014	20	3463	3474	10.1002/chem.201303737

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91	Catalytic Functionalization of Indoles by Copper-Mediated Carbene Transfer	<i>Chemcatchem</i>	2014	6	2047	2052	10.1002/cctc.201400097
90	Chemo-, Regio-, and Stereoselective Silver-Catalyzed Aziridination of Dienes: Scope, Mechanistic Studies, and Ring-Opening Reactions	<i>J. Am. Chem. Soc.</i>	2014	136	5342	5350	10.1021/ja412547r
89	An Effective Dual Copper- and Sulfide-Catalytic System for the Epoxidation of Aldehydes with Phenyl diazomethane	<i>Adv. Synth. Cat.</i>	2013	355	2942	2951	10.1002/adsc.201300606
88	Supercritical Carbon Dioxide: A Promoter of Carbon-Halogen Bond Heterolysis	<i>Angew. Chem. Int. Ed.</i>	2013	52	13298	13301	10.1002/anie.201303819
87	Silver-catalyzed silicon-hydrogen bond functionalization by carbene insertion	<i>Dalton Trans.</i>	2013	42	1191	1195	10.1039/c2dt31460f
86	Functionalization of Non-activated C-H Bonds of Alkanes: An Effective and Recyclable Catalytic System Based on Fluorinated Silver Catalysts and Solvents	<i>Chem. Eur. J.</i>	2013	19	1327	1334	10.1002/chem.201203566
85	Catalytic C-H amination of alkanes with sulfonimidamides: silver(I)-scorpionates vs. dirhodium(II) carboxylates	<i>Tetrahedron</i>	2013	69	4488	4492	10.1016/j.tet.2013.02.005

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84	Catalytic cross-coupling of diazo compounds with coinage metal-based catalysts: an experimental and theoretical study	<i>Dalton Trans.</i>	<b>2013</b>	42	4132	4138	10.1039/c2dt32439c
83	Introducing Copper as Catalyst for Oxidative Alkane Dehydrogenation	<i>J. Am. Chem. Soc.</i>	<b>2013</b>	135	3887	3896	10.1021/ja310866k
82	A General Mechanism for the Copper- and Silver-Catalyzed Olefin Aziridination Reactions: Concomitant Involvement of the Singlet and Triplet Pathways	<i>J. Am. Chem. Soc.</i>	<b>2013</b>	135	1338	1348	10.1021/ja307229e
81	Methane as raw material in synthetic chemistry: the final frontier	<i>Chem. Soc. Rev.</i>	<b>2013</b>	42	8809	8820	10.1039/c3cs60120j
80	Intramolecular cycloaddition of azomethine ylides, from imines of O-acylsalicylic aldehyde and ethyl diazoacetate, to ester carbonyl - experimental and DFT computational study	<i>Org. Biomol. Chem.</i>	<b>2012</b>	10	5582	5591	10.1039/c2ob25676b
79	[(PhBP3)Cu(PPh3)] as a Surrogate of TpxCuL in Homogeneous Catalysis	<i>Organometallics</i>	<b>2012</b>	31	959	965	10.1021/om201016b
78	Introduction to the Ennobling a Base Metal: Presenting Copper in Organometallic Chemistry	<i>Organometallics</i>	<b>2012</b>	31	7631	7633	10.1021/om3010405

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77	Mild Catalytic Functionalization of Styrene-Butadiene Rubbers	<i>Macromolecules</i>	2012	45	9267	9274	10.1021/ma302120a
76	Copper-Catalyzed Nitrene Transfer as a Tool for the Synthesis of N-Substituted 1,2-Dihydro- and 1,2,3,4-Tetrahydropyridines	<i>Organometallics</i>	2012	31	7839	7843	10.1021/om3008234
75	Hydrotris(3-mesitylpyrazolyl)borato-copper(I) alkyne complexes: synthesis, structural characterization and rationalization of their activities as alkyne cyclopropanation catalysts	<i>Dalton Trans.</i>	2012	41	5319	5325	10.1039/c2dt11951j
74	Catalytic Hydrocarbon Functionalization with Gold Complexes Containing N-Heterocyclic Carbene Ligands with Pendant Donor Groups	<i>Eur. J. Inorg. Chem.</i>	2012		1380	1386	10.1002/ejic.201101158
73	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>Chem. Commun.</i>	2012	48	8799	8801	10.1039/c2cc34133f
72	Copper(I) Complexes with Trispyrazolylmethane Ligands: Synthesis, Characterization, and Catalytic Activity in Cross-Coupling Reactions	<i>Inorg. Chem.</i>	2012	51	8298	8306	10.1021/ic300843a

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71	Polynuclear Copper(I) Complexes with Chelating Bis- and Tris-N-Heterocyclic Carbene Ligands: Catalytic Activity in Nitrene and Carbene Transfer Reactions	<i>Eur. J. Org. Chem.</i>	<b>2012</b>	2012	1367	1372	10.1002/ejoc.201101480
70	Intermetallic coinage metal-catalyzed functionalization of alkanes with ethyl diazoacetate: Gold as a ligand	<i>Inorg. Chim. Acta</i>	<b>2011</b>	369	146	149	10.1016/j.ica.2011.01.012
69	Mechanistic and Computational Studies of the Atom Transfer Radical Addition of CCl <sub>4</sub> to Styrene Catalyzed by Copper Homoscorpionate Complexes	<i>Inorg. Chem.</i>	<b>2011</b>	50	2458	2467	10.1021/ic102279w
68	Gold-catalyzed naphthalene functionalization	<i>Bielstein J. Org. Chem.</i>	<b>2011</b>	7	653	657	10.3762/bjoc.7.77
67	Mechanism of Side Reactions in Alkane C-H Bond Functionalization by Diazo Compounds Catalyzed by Ag and Cu Homoscorpionate Complexes-A DFT Study	<i>ChemCatChem</i>	<b>2011</b>	3	1646	1652	10.1002/cctc.201100082
66	Direct, copper-catalyzed oxidation of aromatic C-H bonds with hydrogen peroxide under acid-free conditions	<i>Chem. Commun.</i>	<b>2011</b>	47	8154	8156	10.1039/c1cc12804c
65	Exclusive Aromatic vs Aliphatic C-H Bond Functionalization by Carbene Insertion with Gold-Based Catalysts	<i>Organometallics</i>	<b>2011</b>	30	2855	2860	10.1021/om200206m

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64	Atom Transfer Radical Reactions as a Tool for Olefin Functionalization - On the Way to Practical Applications	<i>Eur. J. Inorg. Chem.</i>	<b>2011</b>		3155	3164	10.1002/ejic.201100379
63	Regioselective Formation of 2,5-Disubstituted Oxazoles Via Copper(I)-Catalyzed Cycloaddition of Acyl Azides and 1-Alkynes	<i>J. Am. Chem. Soc.</i>	<b>2011</b>	133	191	193	10.1021/ja109732s
62	Silver-Catalyzed C-C Bond Formation Between Methane and Ethyl Diazoacetate in Supercritical CO <sub>2</sub>	<i>Science</i>	<b>2011</b>	332	835	838	10.1126/science.1204131
61	Efficient Atom-Transfer Radical Polymerization of Methacrylates Catalyzed by Neutral Copper Complexes	<i>Macromolecules</i>	<b>2010</b>	43	3221	3227	10.1021/ma9026299
60	Catalytic Cyclopropanation of Polybutadienes	<i>J. Polym. Sci. Part A Polymer Chem.</i>	<b>2010</b>	48	4439	4444	10.1002/pola.24231
59	Copper(I)-Olefin Complexes: The Effect of the Trispyrazolylborate Ancillary Ligand in Structure and Reactivity	<i>Organometallics</i>	<b>2010</b>	29	3481	3489	10.1021/om1002705
58	An Efficient, Selective, and Reducing Agent-Free Copper Catalyst for the Atom-Transfer Radical Addition of Halo Compounds to Activated Olefins	<i>Inorg. Chem.</i>	<b>2010</b>	49	642	645	10.1021/ic901942p

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57	Copper(I) complexes as catalysts for the synthesis of N-sulfonyl-1,2,3-triazoles from N-sulfonylazides and alkynes	<i>Org. Biomol. Chem.</i>	2010	8	536	538	10.1039/b912835b
56	Selective Synthesis of N-Substituted 1,2-Dihydropyridines from Furans by Copper-Induced Concurrent Tandem Catalysis	<i>J. Am. Chem. Soc.</i>	2010	132	4600	4607	10.1021/ja1006614
55	Efficient Silver-Catalyzed Regio- and Stereospecific Aziridination of Dienes	<i>Angew. Chem. Int. Ed.</i>	2010	49	7092	7095	10.1002/anie.201003167
54	Hydrotrispyrazolylborate-copper complexes as catalysts for the styrene cyclopropanation reaction with ethyl diazoacetate under homogeneous and heterogeneous conditions	<i>Inorg. Chim. Acta</i>	2009	362	4599	4602	10.1016/j.ica.2009.05.027
53	Rediscovering copper-based catalysts for intramolecular carbon-hydrogen bond functionalization by carbene insertion	<i>Org. Biomol. Chem.</i>	2009	7	4777	4781	10.1039/b911589g
52	Nitrene transfer reactions catalysed by copper(I) complexes in ionic liquid using chloramine-T	<i>Dalton Trans.</i>	2009		730	734	10.1039/b813469c
51	Highly active gold-based catalyst for the reaction of benzaldehyde with ethyl diazoacetate	<i>Chem. Commun.</i>	2009		5153	5155	10.1039/b908233f
50	The Mechanism of the Catalytic Functionalization of Haloalkanes by Carbene	<i>Organometallics</i>	2009	28	5968	5981	10.1021/om9006888

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	Insertion: An Experimental and Theoretical Study						
49	Dinuclear Copper(I) Complexes as Precatalysts in Ullmann and Goldberg Coupling Reactions	<i>Organometallics</i>	2009	28	3815	3821	10.1021/om900119r
48	Metal-Catalyzed Olefin Cyclopropanation with Ethyl Diazoacetate: Control of the Diastereoselectivity	<i>Eur. J. Inorg. Chem.</i>	2009		1137	1144	10.1002/ejic.200800944
47	Gold-catalyzed olefin cyclopropanation	<i>Tetrahedron</i>	2009	65	1790	1793	10.1016/j.tet.2008.10.114
46	Asymmetric $\beta$ -Boration of $\alpha,\beta$ -Unsaturated Esters with Chiral (NHC)Cu Catalysts	<i>Organometallics</i>	2009	28	659	662	10.1021/om800946k
45	Copper-Catalyzed Synthesis of 1,2-Disubstituted Cyclopentanes from 1,6-Dienes by Ring-Closing Kharasch Addition of Carbon Tetrachloride	<i>Adv. Synth. Cat.</i>	2008	350	2365	2372	10.1002/adsc.200800364
44	Gold-promoted styrene polymerization	<i>Chem. Commun.</i>	2008		759	761	10.1039/b716145j
43	A new perfluorinated F <sub>21</sub> -Tp scorpionate ligand: Enhanced alkane functionalization by carbene insertion with (F <sub>21</sub> -Tp)M catalysts (M = Cu, Ag)	<i>Organometallics</i>	2008	27	4779	4787	10.1021/om800531a

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42	Easy alkane catalytic functionalization	<i>Organometallics</i>	<b>2008</b>	27	4126	4130	10.1021/om800218d
41	Coinage metal catalyzed C-H bond functionalization of hydrocarbons	<i>Chem. Rev.</i>	<b>2008</b>	108	3379	3394	10.1021/cr078364y
40	Synthesis, characterization, and reactivity of ruthenium Diene/Diamine complexes including catalytic hydrogenation of ketones	<i>Inorg. Chem.</i>	<b>2007</b>	46	9405	9414	10.1021/ic701363g
39	The effect of catalyst loading in copper-catalyzed cyclohexane functionalization by carbene insertion	<i>Eur. J. Inorg. Chem.</i>	<b>2007</b>		2848	2852	10.1002/ejic.200600811
38	Catalytic carbon-hydrogen bond functionalization in an ionic liquid medium	<i>Organometallics</i>	<b>2007</b>	26	6661	6668	10.1021/om700822a
37	Effects of the substituents in the TpxCu activation of dioxygen: An experimental study	<i>Inorg. Chem.</i>	<b>2007</b>	46	7428	7435	10.1021/ic7007073
36	Unusual polybrominated polypyrazolylborates and their copper(I) complexes: Synthesis, characterization, and catalytic activity	<i>Inorg. Chem.</i>	<b>2007</b>	46	780	787	10.1021/ic061714z
35	Copper-homoscorpionate complexes as active catalysts for atom transfer radical addition to olefins	<i>Inorg. Chem.</i>	<b>2007</b>	46	7725	7730	10.1021/ic0702872

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34	A valuable, inexpensive Cu/N-heterocyclic carbene catalyst for the selective diboration of styrene	<i>Chem. Eur. J.</i>	<b>2007</b>	13	2614	2621	10.1002/chem.200601146
33	A non-fluorous copper catalyst for the styrene cyclopropanation reaction in a fluorous medium	<i>Chem. Commun.</i>	<b>2006</b>		1000	1002	10.1039/b517337j
32	Very efficient, reusable copper catalyst for carbene transfer reactions under biphasic conditions using ionic liquids	<i>Org. Lett.</i>	<b>2006</b>	8	557	560	10.1021/ol052564j
31	The carbene insertion methodology for the catalytic functionalization of unreactive hydrocarbons: No classical C-H activation, but efficient C-H functionalization	<i>Dalton Trans.</i>	<b>2006</b>		5559	5566	10.1039/b610183f
30	Mechanism of alkane C-H bond activation by copper and silver homoscorpionate complexes	<i>Organometallics</i>	<b>2006</b>	25	5292	5300	10.1021/om060445h
29	Synthesis, isolation and characterization of cationic gold(I) N-heterocyclic carbene (NHC) complexes	<i>Chem. Commun.</i>	<b>2006</b>		2045	2047	10.1039/b601547f
28	Alkane carbon-hydrogen bond functionalization with (NHC)MCl precatalysts (M = Cu, Au; NHC=N-heterocyclic carbene)	<i>Organometallics</i>	<b>2006</b>	25	2237	2241	10.1021/om0507474
27	Facile amine formation by intermolecular catalytic amidation of carbon-hydrogen bonds	<i>J. Am. Chem. Soc.</i>	<b>2006</b>	128	11784	11791	10.1021/ja0627850

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26	Copper-catalyzed addition of ethyl diazoacetate to furans: An alternative to dirhodium(II) tetraacetate	<i>J. Org. Chem.</i>	2005	70	6101	6104	10.1021/jo050551d
25	Controlled, copper-catalyzed functionalization of polyolefins	<i>Macromolecules</i>	2005	38	4966	4969	10.1021/ma050626f
24	Functionalization of primary carbon-hydrogen bonds of alkanes by carbene insertion with a silver-based catalyst	<i>Organometallics</i>	2005	24	1528	1532	10.1021/om050024k
23	Copper, silver and gold-based catalysts for carbene addition or insertion reactions	<i>J. Organomet. Chem.</i>	2005	690	5441	5450	10.1016/j.jorganchem.2005.07.092
22	A gold catalyst for carbene-transfer reactions from ethyl diazoacetate	<i>Angew. Chem. Int. Ed.</i>	2005	44	5284	5288	10.1002/anie.200501056
21	Alkane dehydrogenation by sequential, double C-H bond activation by	<i>Organometallics</i>	2004	23	2162	2167	10.1021/om034242u
20	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	10.1021/om034156u
19	Copper-homoscorpionate complexes as very active catalysts for the olefin aziridination reaction	<i>Organometallics</i>	2004	23	253	256	10.1021/om034158e

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18	Complete control of the chemoselectivity in catalytic carbene transfer reactions from ethyl diazoacetate: An N-heterocyclic carbene-Cu system that suppresses diazo coupling	<i>J. Am. Chem. Soc.</i>	<b>2004</b>	126	10846	10847	10.1021/ja047284y
17	Copper-catalyzed carbene insertion into O-H bonds: High selective conversion of alcohols into ethers	<i>Organometallics</i>	<b>2003</b>	22	2914	2918	10.1021/om030243a
16	Functionalization of carbon-hydrogen bonds of hydrocarbons and ethers via carbene insertion with copper(I)-homoscorpionate catalysts	<i>Organometallics</i>	<b>2003</b>	22	4145	4150	10.1021/om034002e
15	Highly regioselective functionalization of aliphatic carbon-hydrogen bonds with a perbromohomoscorpionate copper(I) catalyst	<i>J. Am. Chem. Soc.</i>	<b>2003</b>	125	1446	1447	10.1021/ja0291484
14	Cyclohexane and benzene amination by catalytic nitrene insertion into C-H bonds with the copper-homoscorpionate catalyst TpBr <sub>3</sub> Cu(NCMe)	<i>J. Am. Chem. Soc.</i>	<b>2003</b>	125	12078	12079	10.1021/ja037072l
13	Intramolecular dealkylation of chelating diamines with Ru(II) complexes	<i>Chem. Commun.</i>	<b>2002</b>		1848	1849	10.1039/b205078a
12	Catalytic insertion of diazo compounds into N-H bonds: the copper alternative	<i>Chem. Commun.</i>	<b>2002</b>		2998	2999	10.1039/b207389g

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11	Copper(I)-homoscorpionate catalysts for the preferential, kinetically controlled cis cyclopropanation of $\alpha$ -olefins with ethyl diazoacetate	<i>J. Am. Chem. Soc.</i>	2002	124	978	983	10.1021/ja011895y
10	Intermolecular copper-catalyzed carbon-hydrogen bond activation via carbene insertion	<i>J. Am. Chem. Soc.</i>	2002	124	896	897	10.1021/ja016798j
9	The use of polypyrazolylborate copper(I) complexes as catalysts in the conversion of olefins into cyclopropanes, aziridines and epoxides and alkynes into cyclopropenes	<i>J. Organomet. Chem.</i>	2001	617	110	118	
8	Unprecedented highly cis-diastereoselective olefin cyclopropanation using copper homoscorpionate catalysts	<i>J. Am. Chem. Soc.</i>	2001	123	3167	3168	10.1021/ja0155736
7	A family of highly active copper(I)-homoscorpionate catalysts for the alkyne cyclopropanation reaction	<i>Chem. Commun.</i>	2001		1804	1805	10.1039/b105020f
6	Novel (methyl)- and (acetyl)palladium complexes containing bis(pyrazolyl)borate ligands -: Dynamic equilibrium between $\eta^2$ and $\eta^1$ forms for the complex $Bp^*(Me)(PCy_3)Pd$ [ $Bp^*$ = dihydridobis(3,5-dimethylpyrazolyl)borate]	<i>Eur. J. Inorg. Chem.</i>	2000		1359	1364	

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5	Polypyrazolylborate copper(I) complexes as catalysts of the homogeneous and heterogeneous styrene epoxidation reaction	<i>Chem. Commun.</i>	<b>2000</b>		1853	1854	10.1039/b004806m
4	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>	<b>2000</b>	19	285	289	10.1021/om990780o
3	Kinetics of the BpCu-catalyzed carbene transfer reaction (Bp equals dihydridobis(1-pyrazolyl)borate).: Is a 14-electron species the real catalyst for the general copper-mediated olefin cyclopropanation?	<i>Organometallics</i>	<b>1999</b>	18	2601	2609	10.1021/om990270u
2	BpCu-catalyzed cyclopropanation of olefins: A simple system that operates under homogeneous and heterogeneous conditions (Bp=dihydridobis(pyrazolyl)borate)	<i>Organometallics</i>	<b>1998</b>	17	3051	3057	10.1021/om980061u
1	Substituent effects on the reaction rates of copper-catalyzed cyclopropanation and aziridination of para-substituted styrenes	<i>Organometallics</i>	<b>1997</b>	16	4399	4402	10.1021/om970382q