

PEDRO J. PÉREZ SELECTED PUBLICATIONS (INDEPENDENT CAREER)

Title	Journal	Year	Vol	Page init	Page end	DOI
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
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
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
Intramolecular Interception of the Remote Position of Vinylcarbene Silver Complex Intermediates by C(sp ³)-H Bond Insertion	<i>Angew. Chem. Int. Ed.</i>	2023	62	e202215163		10.1002/anie.202215163
Introducing the Catalytic Amination of Silanes via Nitrene Insertion	<i>J. Am. Chem. Soc.</i>	2022	144	10608	10614	10.1021/jacs.2c03739
Carbene-Controlled Regioselective Functionalization of Linear Alkanes under Silver Catalysis	<i>J. Am. Chem. Soc.</i>	2022	144	23275	23279	10.1021/jacs.2c11707

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Copper-Catalyzed Dehydrogenative Amidation of Light Alkanes	<i>Angew. Chem. Int. Ed.</i>	2021	60	18467	18471	10.1002/anie.202104737
Two Copper-Carbenes from One Diazo Compound	<i>J. Am. Chem. Soc.</i>	2021	143	4837	4843	10.1021/jacs.1c01483
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
Intermolecular Allene Functionalization by Silver-Nitrene Catalysis	<i>J. Am. Chem. Soc.</i>	2020	142	13062	13071	10.1021/jacs.0c04395
Copper-Catalyzed N-F Bond Activation for Uniform Intramolecular C-H Amination Yielding Pyrrolidines and Piperidines	<i>Angew. Chem. Int. Ed.</i>	2019	58	8912	8916	10.1002/anie.201902716
Measuring the Relative Reactivity of the Carbon-Hydrogen Bonds of Alkanes as Nucleophiles	<i>Angew. Chem. Int. Ed.</i>	2018	57	13848	13852	10.1002/anie.201807448
Enantio- and Diastereoselective Cyclopropanation of 1-Alkenylboronates: Synthesis of 1-Boryl-2,3-Disubstituted Cyclopropanes	<i>Angew. Chem. Int. Ed.</i>	2018	57	2334	+	10.1002/anie.201710415

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Catalytic Nitrene Transfer To Alkynes: A Novel and Versatile Route for the Synthesis of Sulfinamides and Isothiazoles	<i>Angew. Chem. Int. Ed.</i>	2017	56	12842	+	10.1002/anie.201705664
Functional-Group-Tolerant, Silver-Catalyzed N-N Bond Formation by Nitrene Transfer to Amines	<i>J. Am. Chem. Soc.</i>	2017	139	2216	2223	10.1021/jacs.6b08219
Iron and Manganese Catalysts for the Selective Functionalization of Arene C(sp ²)-H Bonds by Carbene Insertion	<i>Angew. Chem. Int. Ed.</i>	2016	55	6530	6534	10.1002/anie.201601750
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
Supercritical Carbon Dioxide: A Promoter of Carbon-Halogen Bond Heterolysis	<i>Angew. Chem. Int. Ed.</i>	2013	52	13298	13301	10.1002/anie.201303819
Introducing Copper as Catalyst for Oxidative Alkane Dehydrogenation	<i>J. Am. Chem. Soc.</i>	2013	135	3887	3896	10.1021/ja310866k
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>	2013	135	1338	1348	10.1021/ja307229e

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Regioselective Formation of 2,5-Disubstituted Oxazoles Via Copper(I)-Catalyzed Cycloaddition of Acyl Azides and 1-Alkynes	<i>J. Am. Chem. Soc.</i>	2011	133	191	193	10.1021/ja109732s
Silver-Catalyzed C-C Bond Formation Between Methane and Ethyl Diazoacetate in Supercritical CO ₂	<i>Science</i>	2011	332	835	838	10.1126/science.1204131
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
Efficient Silver-Catalyzed Regio- and Stereospecific Aziridination of Dienes	<i>Angew. Chem. Int. Ed.</i>	2010	49	7092	7095	10.1002/anie.201003167
Facile amine formation by intermolecular catalytic amidation of carbon-hydrogen bonds	<i>J. Am. Chem. Soc.</i>	2006	128	11784	11791	10.1021/ja0627850
A gold catalyst for carbene-transfer reactions from ethyl diazoacetate	<i>Angew. Chem. Int. Ed.</i>	2005	44	5284	5288	10.1002/anie.200501056
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>	2004	126	10846	10847	10.1021/ja047284y

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Highly regioselective functionalization of aliphatic carbon-hydrogen bonds with a perbromohomoscorpionate copper(I) catalyst	<i>J. Am. Chem. Soc.</i>	2003	125	1446	1447	10.1021/ja0291484
Cyclohexane and benzene amination by catalytic nitrene insertion into C-H bonds with the copper-homoscorpionate catalyst TpBr3Cu(NCMe)	<i>J. Am. Chem. Soc.</i>	2003	125	12078	12079	10.1021/ja037072l
Copper(I)-homoscorpionate catalysts for the preferential, kinetically controlled cis cyclopropanation of α -olefins with ethyl diazoacetate	<i>J. Am. Chem. Soc.</i>	2002	124	978	983	10.1021/ja011895y
Intermolecular copper-catalyzed carbon-hydrogen bond activation via carbene insertion	<i>J. Am. Chem. Soc.</i>	2002	124	896	897	10.1021/ja016798j
Unprecedented highly cis-diastereoselective olefin cyclopropanation using copper homoscorpionate catalysts	<i>J. Am. Chem. Soc.</i>	2001	123	3167	3168	10.1021/ja0155736