PUBLICATIONS DERIVED FROM COLLABORATIVE EFFORTS WITHIN THE OASIS NETWORK

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1	Romo-Islas, G.; Gil-Moles, M.; Saxena, A.; Frontera, A.; Gimeno, M. C.; Rodríguez, L.	Effect of substituents on the $^1O_2$ production and biological activity of (N^N^N)Pt(py) complexes	2023	Dalton Trans	53		2475	2486	10.1039/d3dt04050j	Open Access
2	Ibáñez-Ibáñez, L.; Mollar-Cuni, A.; Apaloo-Messan, E.; Sharma, A.K.; Mata, J.A.; Maseras, F.; Vicent, C.	Ion mobility mass spectrometry uncovers regioselectivity in the carboxylate-assisted C-H activation of palladium N-heterocyclic carbene complexes	2023	Dalton Trans	53		656	665	10.1039/d3dt02793g	Open Access
3	J. A. Cabeza, J. F. Reynes, F. García, P. García-Álvarez, R. García-Soriano	Fast and scalable solvent-free access to Lappert's heavier tetrylenes E{N(SiMe3)2}2 (E = Ge, Sn, Pb) and ECl{N(SiMe3)2} (E = Ge, Sn)	2023	Chem. Sci.	14		12477	12483	10.1039/d3sc02709k	Open Access
4	Martínez-Laguna, J.; Altarejos, J.; Fuentes, M.A.; Sciortino, G.; Maseras, F.; Carreras, J.; Caballero, A.; Pérez, P.J.	Alkanes C1-C6 C-H Bond Activation via a Barrierless Potential Energy Path: Trifluoromethyl Carbenes Enhance Primary C-H Bond Functionalization	2024	J. Am. Chem. Soc.	146		34014	34022	10.1021/jacs.4c13065	Open Access
5	Delgado-Collado, J.M.; Videa, H.; Serrano-Laguna, P.J.; Fuentes, M.A.; Álvarez, E.; Díaz-Quintana, A.; Martínez-Martínez, A.J.; Rodríguez-Delgado, A.; Cámpora, J.	Reversible Redox Ligand-Centered Reactivity in 2,6-Bisiminopyridine Aluminum Systems	2024	Inorg. Chem.	63		19156	19166	10.1021/acs.inorgchem.4c02664	Open Access
6	Ruiz-Almoguera, D.; Ventura-Espinosa, D.; Pérez-Bitrián, A.; Martín, A.; Mata, J.A.; Baya, M.	Gold Trifluoromethyl Complexes as Efficient Regioselective Catalysts in Alkyne Hydration	2024	Chem. Eur. J.	30	e202401753			10.1002/chem.202401753	Open Access
7	Salvadó, O.; Pérez-Ruíz, J.; Mesas, A.; Díaz-Requejo, M.M.; Pérez, P.J.; Fernández, E.	Rare Gold-Catalyzed 4-exo-dig Cyclization for Ring Expansion of Propargylic Aziridines toward Stereoselective (Z)-Alkylidene Azetidines, via Diborylalkyl Homopropargyl Amines	2024	Org. Lett.	26		7535	7540	10.1021/acs.orglett.4c02415	Open Access

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8	Gil-Moles, M.; Olmos, M.E.; López-de-Luzuriaga, J.M.; Ott, I.; Gimeno, M.	A dual approach to cancer treatment: gold(i) terpyridine derivatives as DNA binders and inhibitors of mammalian thioredoxin reductase	2024	Inorg. Chem. Front.	11		4802	4814	10.1039/d4qi00755g	Open Access
9	Álvarez, M.; Villalba, F.; Casciotti, M.; Molina, F.; Sciortino, G.; Lledos, A.; Albéniz, A.C.; Belderraín, T.R.; Pérez, P.J.	A copper-masked monosubstituted carbene as a general transmetalating agent toward stable carbene complexes	2024	Chem	10		1576	1592	10.1016/j.chempr.2024.03.009	Subscription
10	Sánchez-Roa, D.; Sessini, V.; Mosquera, M.E.G.; Cámpora, J.	N-Heterocyclic Carbene-Carbodiimide (NHC-CDI) Betaines as Organocatalysts for β-Butyrolactone Polymerization: Synthesis of Green PHB Plasticizers with Tailored Molecular Weights	2024	ACS Catalysis	14		2487	2501	10.1021/acscatal.3c05357	Open Access
11	Sala, J.; Capdevila, L.; Berga, C.; de Aquino, A.; Rodríguez, L.; Simon, S.; Ribas, X.	Luminescent Chiral Furanol-PAHs via Straightforward Ni-Catalysed Csp2−F Functionalization: Mechanistic Insights into the Scholl Reaction	2024	Chem. Eur. J.	30	e202303200			10.1002/chem.202303200	Open Access
12	Carbonell, A.; Izquierdo, I.; Guzmán Ríos, D. B.; Norjmaa, G.; Ujaque, G.; Martínez-Martínez, A. J.; Pischel, U.	Synthesis, Characterization, and Photochemistry of a Ga_2L_3 Coordination Cage with Dithienylethene-Catecholate	2024	Inorg. Chem.	63	19872	19884		10.1021/acs.inorgchem.4c03279	Open Access
13	Rodríguez, A.M.; Sciortino, G.; Muñoz-Gutierrez, L.; Molina, F.; Maseras, F.; Díaz-Requejo, M.M.; Pérez, P.J.	Introducing 1,3-enyne functionalization by nitrene transfer reaction	2024	Chem Catalysis	4	100865			10.1016/j.checat.2023.100865	Open Access
14	J. Xie, J. Zhang, S. Kasemthaveeechok, S. López-Resano, E. Cots, F. Maseras, M. H. Pérez-Temprano.	Hexafluoroisopropanol-assisted selective intramolecular synthesis of heterocyclic by single-electron transfer	2024	Nat. Synth.	3		1021	1030	10.1038/s44160-024-00566-w	Open Access
15	Monreal-Corona, R.; Díaz-Jiménez, À.; Pérez, P.J.; Caballero, A.; Roglans, A.; Poater, A.; Pla-Quintana, A.	Catalyst-Directed Selectivity in Vinylcarbene Reactions: A Comparative Study of Ag, Rh, and Cu Complexes	2025	Adv. Synth. Catal.	367	e70007			10.1002/adsc.70007	Subscription
16	Ibáñez-Ibáñez, L.; Guisado-Barrios, G.; Mata, J.A.	Photodehydrogenation of alcohols catalysed by a single ruthenium N-Heterocyclic carbene complex	2025	J. Catalysis	448	116134			10.1016/j.jcat.2025.116134	Open Access
17	Reynes, J.F.; Álvarez-Miguel, L.; Winkelmann, F.; Felderhoff, M.;	Scalable Main Group Mechanocatalytic CO2 Valorisation to Cyclocarbonate Species	2025	Angew. Chem. Int. Ed.	64	e202502584			10.1002/anie.202502584	Open Access

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18	de Aquino, A.; Santamaria, N.; Moro, A.J.; Aguilà, D.; Prieto, A.; Nicasio, M.C.; Lima, J.C.; Rodríguez, L.	Gold(I) Complexes with Bulky Phosphanes: A Dual Approach to Triplet Harvesting and Hydroamination Catalysis	2025	Inorg. Chem.	64		3392	3402	10.1021/acs.inorgchem.4c04964	Open Access
19	Izquierdo, I.; Martínez-Castro, L.; Ujaque, G.; Martínez-Martínez, A. J.	Cooperative Reversible Assembly in Triply Interlocked Al_6L_4 and Ga_6L_4 Cages.	2025	Chem. Sci.	16		20406	20413	10.1039/D5SC05441A	Open Access
20	Norjmaa, G.; Ibáñez, S.; Peris, E.; Maréchal, J.-D.; Ujaque, G.	Guest Binding Mechanism of Polycyclic Aromatic Hydrocarbons by Au(I) Metallo-Tweezers Revealed by Computation.	2025	Inorg. Chem.	64		22664	22673	10.1021/acs.inorgchem.5c03400	Open Access
21	A. Sánchez, A. Cárdenas-Acero, E. Álvarez, I. del Rosal, J. Navarro-Ruiz, R. Poteau, J. Cámpora, E. A. Baquero and L. M. Martínez-Prieto	Reversible C–H Insertion in Bulky Unsaturated NHCs: A Carbon-Based Analogue of Oxidative Addition/Reductive Elimination	2025	Chem. Eur. J.	31	e02968			10.1002/chem.202502968	Open Access
22	Ibáñez, S.; Alemany-Chavarria, M.; Dawe, L. N.; Ujaque, G.; Peris, E.	Rocking (and Shuttling) in a Nanosized Metallobox.	2025	Angew. Chem. Int. Ed.	64	e202514744			10.1002/anie.202514744	
23	L. Tarifa, E. Apaloo-Messan, P. Dominguez-Molano, L. Morán-González, O. Salvadó, S. Wilkinson, M. Rodríguez, F. Maseras, E. Fernández	Pivotal Synthesis of Tetrasubstituted Epoxides from Ketones and α-Halo B/Si Ylides with Understanding of the Activation Modes	2025	ChemistryEurope		e202500241			10.1002/ceur.202500241	Open Access
24	N. Insa-Carreras, A. Díaz-Jiménez, A. Pinto, L. Rodríguez, A. Poater, A. Roglans, A. Pla-Quintana*	Skeletal Rearrangement of Biaryls via Rhodium-Azirine Intermediate: A Route to Solid-State Emissive Polycyclic Sulfamates	2025	ACS Catalysis					10.1021/acscatal.5c06179	Open Access
25	A, Díaz-Jiménez, N. Insa-Carreras, A. Roglans, A. Pla-Quintana, M. Costas	Iron-Catalyzed Intermolecular N–H Insertion Using Acceptor–Acceptor Carbenes Derived from Iodonium Ylides	2025	Org. Lett.	27		7804	7809	10.1021/acs.orglett.5c02000	Open Access
26	B. L. Tóth, A. Delgado, D. Ghorai, D. Meneses, A. García-Camacho, M. Vicent-Morales, J. Benet-Buchholz,I. Funes-Ardoiz, A. W. Kleij	Dual Co/Photoredox-Catalyzed Regio- and Stereoselective Synthesis of Highly Functional 1,3-Dienes	2025	Angew. Chem. Int. Ed.		e22561			10.1002/anie.202522561	Open Access
27	J. Pérez-Ruíz, M. R. Ramírez, C. Rentero, V. Sessini, M. E. G.	Functionalization of Polyolefins via Catalytic Nitrene Addition	2025	Angew. Chem. Int. Ed.	64	e22659			10.1002/anie.202522659	Open Access

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28	E. Morales-Pioz, M. Redrado, A. Benedi, A. de Aquino, P. García-Orduña, M. Royo-Cañas, J. Godino, I. Marzo, L. Rodríguez, M. C. Gimeno, V. Fernández-Moreira	Cyclometallated iridium(III) complexes: ligand-driven selectivity for chemotherapy and photodynamic therapy	2025	Chem. Commun.	61		19237	19240	10.1039/D5CC04768D	Subscription
29	A. Díaz-Jiménez, R. Monreal-Corona, A. Saha, A. Álvarez-Núñez, A. Company, T. Parella, P. J. Pérez, A. Caballero, A. Roglans, A. Poater, A. Pla-Quintana	Characterization of a Silver Vinylcarbene Intermediate in 2 Carbene−Alkyne Metathesis and Its Concerted C(sp2)−H Bond Insertion	2026	J. Am. Chem. Soc.	148		3689	3696	10.1021/jacs.5c19806	Open Access
30	J. Martínez-Laguna, A. Cholewinska, E. Borrego, M. Besora, M. Álvarez, A. Caballero, P. J. Pérez	Methane Catalytic Amidation via a Plausible Copper-Nitrene Intermediate	2026	J. Am. Chem. Soc.	148		9057	9065	10.1021/jacs.5c22747	Open Access
31	J. Martínez-Laguna, I. L. Schmidtke, A. Monti, · R. J. Rama, · D. Sánchez-Rodas, · M. C. Nicasio, · A. Nova, A. Caballero, P. J. Pérez	Iridium-mediated methane dehydrogenation and methylidene (=CH2) transfer	2026	Chem					10.1016/j.chempr.2026.102999	Subscription
32	M. Casciotti, M. Álvarez, G. Sciortino, A. Lledós, T. R. Belderrain, P. J. Pérez	Carbene-Induced Reversible and Complete Decoordination of Tridentate Trispyrazolylborate Ligands in Copper Complexes	2026	ChemistryEurope	4	e70296			10.1002/ceur.70296	Open Access
33	L. Ibáñez-Ibáñez, M. del Pico-Carranza, G. Guisado-Barrios, J. A. Mata	Visible-light assisted dehydrogenation of benzylamines catalysed by a standalone ruthenium complex	2026	Dalton Trans	55		8208	8215	10.1039/D6DT00956E	Open Access
34	G. Morales-Ortega, I. Pérez-Cubero, E. Gómez-Bengoa, A. Correa, J. Carreras	Visible-Light Mediated Functionalization in Phe-Containing Peptides upon a Debenzylative Amination Process	2026	Adv. Synth. Cat.	368	e70352			10.1002/adsc.70352	Open Access
35	M. López-Aguilar, J. F. Reynes, L. Cicco, A. Suárez-Fernández, V. Capriati, A. Presa Soto, F. García, J. García-Álvarez	Solvent-free/scalable mechanochemical-assisted addition of phosphine oxides to aldehydes: sustainable protocol for one-pot tandem P–C bond formation	2026	Green Chemistry	28	Advanced article			10.1039/D5GC06683B	

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37	A. Sánchez, L. A. M. Carrascosa, G. Romeo, G. Orsini, Y. Coppel, S. Santamarina, L. Rodríguez-Santiago, X. Solans-Monfort. A. Petronilho, L. M. Martínez-Prieto	Nanoparticles Ligated by an N-Heterocyclic Carbene Derived from Uracil Nucleoside as Selective Antimicrobial Agents.	2026	Inorg. Chem.	65		4580	4591	10.1021/acs.inorgchem.5c05649	Open Access