Macarena Arena Poyatos

List of Publications by Year
in descending order

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73 papers	5,457 citations	81900 39 h-index	79698 73 g-index
82 all docs	82 docs citations	82 times ranked	4025 citing authors

#	Article	IF	Citations
1	Complexes with Poly(N-heterocyclic carbene) Ligands: Structural Features and Catalytic Applications. Chemical Reviews, 2009, 109, 3677-3707.	47.7	797
2	Structural and catalytic properties of chelating bis- and tris-N-heterocyclic carbenes. Coordination Chemistry Reviews, 2007, 251, 841-859.	18.8	447
3	New Ruthenium(II) CNC-Pincer Bis(carbene) Complexes:Â Synthesis and Catalytic Activity. Organometallics, 2003, 22, 1110-1114.	2.3	249
4	[IrCl₂Cp*(NHC)] Complexes as Highly Versatile Efficient Catalysts for the Crossâ€Coupling of Alcohols and Amines. Chemistry - A European Journal, 2008, 14, 11474-11479.	3.3	232
5	Reactivity Differences in the Syntheses of Chelating N-Heterocyclic Carbene Complexes of Rhodium Are Ascribed to Ligand Anisotropy. Organometallics, 2004, 23, 1253-1263.	2.3	199
6	Palladium Catalysts with Sulfonate-Functionalized-NHC Ligands for Suzukiâ^'Miyaura Cross-Coupling Reactions in Water. Organometallics, 2011, 30, 684-688.	2.3	154
7	Acetylacetonate Anchors for Robust Functionalization of TiO₂Nanoparticles with Mn(II)â^'Terpyridine Complexes. Journal of the American Chemical Society, 2008, 130, 14329-14338.	13.7	151
8	Synthesis, Reactivity, Crystal Structures and Catalytic Activity of New Chelating Bisimidazolium-Carbene Complexes of Rh. European Journal of Inorganic Chemistry, 2003, 2003, 1215-1221.	2.0	137
9	Catalysed low temperature H2 release from nitrogen heterocycles. New Journal of Chemistry, 2006, 30, 1675.	2.8	121
10	N-Heterocyclic Carbenes: A Door Open to Supramolecular Organometallic Chemistry. Accounts of Chemical Research, 2020, 53, 1401-1413.	15.6	116
11	Synthesis of a Dirhodium(I) Bisimidazolium Carbene Complex and Catalytic Activity toward Hydroformylation of Olefins. High-Pressure NMR Spectroscopy of the Catalyst under Catalytic Conditions. Organometallics, 2003, 22, 440-444.	2.3	111
12	An N-Heterocyclic Carbene/Iridium Hydride Complex from the Oxidative Addition of a Ferrocenyl-Bisimidazolium Salt: Implications for Synthesis. Angewandte Chemie - International Edition, 2005, 44, 444-447.	13.8	109
13	Triphenyleneâ€Based Tris(Nâ€Heterocyclic Carbene) Ligand: Unexpected Catalytic Benefits. Angewandte Chemie - International Edition, 2013, 52, 7009-7013.	13.8	108
14	Coordination Chemistry of a Modular N,C-Chelating Oxazole-Carbene Ligand and Its Applications in Hydrosilylation CatalysisÂ§. Organometallics, 2006, 25, 2634-2641.	2.3	105
15	Carbene Complexes of Rhodium and Iridium from Tripodal N-Heterocyclic Carbene Ligands:Â Synthesis and Catalytic Properties. Inorganic Chemistry, 2004, 43, 2213-2219.	4.0	104
16	A New Rhodium(III) Complex with a Tripodal Bis(imidazolylidene) Ligand. Synthesis and Catalytic Properties. Organometallics, 2004, 23, 323-325.	2.3	100
17	A Weak Donor, Planar Chelating Bitriazole N-Heterocyclic Carbene Ligand for Ruthenium(II), Palladium(II), and Rhodium. Organometallics, 2008, 27, 2128-2136.	2.3	98
18	Câ^'H Oxidative Addition of Bisimidazolium Salts to Iridium and Rhodium Complexes, and N-Heterocyclic Carbene Generation. A Combined Experimental and Theoretical Study. Organometallics, 2006, 25, 1120-1134.	2.3	96

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19	Synthesis and Reactivity of New Chelate-N-Heterocyclic Biscarbene Complexes of Ruthenium. Inorganic Chemistry, 2004, 43, 1793-1798.	4.0	95
20	Coinage metal complexes with N-heterocyclic carbene ligands as selective catalysts in diboration reaction. Tetrahedron: Asymmetry, 2006, 17, 1759-1762.	1.8	94
21	Can the Disproportion of Oxidation State III Be Favored in RuIIâ^'OH2/RuIVO Systems?. Journal of the American Chemical Society, 2006, 128, 5306-5307.	13.7	87
22	New Rh(I) and Rh(III) Bisimidazol-2-ylidene Complexes:Â Synthesis, Reactivity, and Molecular Structures. Inorganic Chemistry, 2003, 42, 2572-2576.	4.0	81
23	Preparation of a new clay-immobilized highly stable palladium catalyst and its efficient recyclability in the Heck reaction. New Journal of Chemistry, 2003, 27, 425-431.	2.8	79
24	A Simple Catalyst for the Efficient Benzylation of Arenes by Using Alcohols, Ethers, Styrenes, Aldehydes, or Ketones. Chemistry - A European Journal, 2009, 15, 4610-4613.	3.3	79
25	Y-Shaped Tris-N-Heterocyclic-Carbene Ligand for the Preparation of Multifunctional Catalysts of Iridium, Rhodium, and Palladium. Organometallics, 2012, 31, 5606-5614.	2.3	69
26	Ferrocenyl-Imidazolylidene Ligand for Redox-Switchable Gold-Based Catalysis. A Detailed Study on the Redox-Switching Abilities of the Ligand. Organometallics, 2016, 35, 2747-2758.	2.3	64
27	(Î·⁶â€Arene)ruthenium(Nâ€heterocyclic carbene) Complexes for the Chelationâ€Assisted Arylation and Deuteration of Arylpyridines: Catalytic Studies and Mechanistic Insights. Advanced Synthesis and Catalysis, 2010, 352, 1155-1162.	4.3	63
28	Synthesis and structural chemistry of arene-ruthenium half-sandwich complexes bearing an oxazolinylâ€“carbene ligand. Journal of Organometallic Chemistry, 2006, 691, 2713-2720.	1.8	59
29	Pyreneâ€Based Bisazolium Salts: From Luminescence Properties to Janusâ€Type Bisâ€Nâ€Heterocyclic Carbenes. Chemistry - A European Journal, 2014, 20, 9716-9724.	3.3	59
30	Cationâ€Driven Selfâ€Assembly of a Gold(I)â€Based Metalloâ€Tweezer. Angewandte Chemie - International Edition, 2017, 56, 9786-9790.	13.8	59
31	A planar chelating bitriazole N-heterocyclic carbene ligand and its rhodium(iii) and dirhodium(ii) complexes. Chemical Communications, 2007, , 2267.	4.1	58
32	Recent Developments in the Applications of Palladium Complexes Bearing N-Heterocyclic Carbene Ligands. Current Organic Chemistry, 2011, 15, 3309-3324.	1.6	58
33	Ligand & band gap engineering: tailoring the protocol synthesis for achieving high-quality CsPbI₃ quantum dots. Nanoscale, 2020, 12, 14194-14203.	5.6	48
34	Double Cï£¿H Bond Activation of C(sp³)H₂ Groups for the Preparation of Complexes with Backâ€toâ€Back Bisimidazolinylidenes. Angewandte Chemie - International Edition, 2011, 50, 7666-7669.	13.8	44
35	A Pyrene-Based N-Heterocyclic Carbene: Study of Its Coordination Chemistry and Stereoelectronic Properties. Organometallics, 2014, 33, 394-401.	2.3	44
36	Experimental and Theoretical Approaches to the Influence of the Addition of Pyrene to a Series of Pd and Ni NHCâ€Based Complexes: Catalytic Consequences. Chemistry - A European Journal, 2015, 21, 1578-1588.	3.3	44

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37	Gold(I) Metalloâ€Tweezers for the Recognition of Functionalized Polycyclic Aromatic Hydrocarbons by Combined Ï€â€“Ï€ Stacking and Hâ€Bonding. Chemistry - A European Journal, 2017, 23, 14439-14444.	3.3	44
38	Mainâ€Chain Organometallic Microporous Polymers Bearing Triphenyleneâ€“Tris(Nâ€Heterocyclic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.3	43
39	Shaping and Enforcing Coordination Spheres: The Implications ofC3 andC1 Chirality in the Coordination Chemistry of 1,1,1-Tris(oxazolinyl)ethane (â€œTrisoxâ€). Chemistry - A European Journal, 2007, 13, 3058-3075.	3.3	40
40	Postmodification of the Electronic Properties by Addition of Ï€-Stacking Additives in N-Heterocyclic Carbene Complexes with Extended Polyaromatic Systems. Inorganic Chemistry, 2015, 54, 3654-3659.	4.0	39
41	A Y-Shaped Tris-N-Heterocyclic Carbene for the Synthesis of Simultaneously Chelate-Monodentate Dipalladium Complexes. Organometallics, 2011, 30, 5985-5990.	2.3	36
42	The Complex Coordination Landscape of a Digold(I) Uâ€Shaped Metalloligand. Angewandte Chemie - International Edition, 2018, 57, 16816-16820.	13.8	36
43	A Nanosized Janus Bis-N-heterocyclic Carbene Ligand Based on a Quinoxalinophenanthrophenazine Core, and Its Coordination to Iridium. Organometallics, 2015, 34, 1725-1729.	2.3	34
44	Gold Catalysts with Polyaromatic-NHC ligands. Enhancement of Activity by Addition of Pyrene. Organometallics, 2017, 36, 1447-1451.	2.3	34
45	Fluorescent Pyreneâ€Based Bisâ€azole Compounds: Synthesis and Photophysical Analysis. Chemistry - A European Journal, 2015, 21, 10566-10575.	3.3	33
46	A Ferrocenylâ€Benzoâ€Fused Imidazolylidene Complex of Ruthenium as Redoxâ€Switchable Catalyst for the Transfer Hydrogenation of Ketones and Imines. ChemCatChem, 2016, 8, 3790-3795.	3.7	29
47	A D_{3h}-symmetry hexaazatriphenylene-tris-N-heterocyclic carbene ligand and its coordination to iridium and gold: preliminary catalytic studies. Chemical Communications, 2017, 53, 3733-3736.	4.1	28
48	A Dinuclear Au(I) Complex with a Pyrene-di-N-heterocyclic Carbene Linker: Supramolecular and Catalytic Studies. Organometallics, 2018, 37, 3407-3411.	2.3	28
49	Unveiling the stereoelectronic properties of a triphenylene-based tris N-heterocyclic carbene. Chemical Communications, 2013, 49, 7126.	4.1	27
50	Rhodiumâ€“NHC complexes mediate diboration versus dehydrogenative borylation of cyclic olefins: a theoretical explanation. Dalton Transactions, 2013, 42, 746-752.	3.3	26
51	Pincer-CNC mononuclear, dinuclear and heterodinuclear Au(<scp>iii</scp>) and Pt(<scp>ii</scp>) complexes supported by mono- and poly-N-heterocyclic carbenes: synthesis and photophysical properties. Dalton Transactions, 2016, 45, 5549-5556.	3.3	26
52	Cationâ€Driven Selfâ€Assembly of a Gold(I)â€Based Metalloâ€Tweezer. Angewandte Chemie, 2017, 129, 9918-9922.	2.0	26
53	Biomedical Properties of a Series of Ruthenium-N-Heterocyclic Carbene Complexes Based on Oxidant Activity In Vitro and Assessment In Vivo of Biosafety in Zebrafish Embryos. Zebrafish, 2010, 7, 13-21.	1.1	25
54	Redoxâ€Switchable Cycloisomerization of Alkynoic Acids with Napthalenediimideâ€Derived Nâ€Heterocyclic Carbene Complexes. Angewandte Chemie - International Edition, 2021, 60, 20003-20011.	13.8	21

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55	A Tetracyclic Bis(imidazolindiylidene) Ligand and Its Diiridium and Dipalladium Complexes. Organometallics, 2013, 32, 6445-6451.	2.3	20
56	Mono and dimetallic pyrene-imidazolylidene complexes of iridium(<scp>iii</scp>) for the deuteration of organic substrates and the Câ€“C coupling of alcohols. Dalton Transactions, 2016, 45, 14154-14159.	3.3	20
57	An N-Heterocyclic Carbene/Iridium Hydride Complex from the Oxidative Addition of a Ferrocenyl-Bisimidazolium Salt: Implications for Synthesis. Angewandte Chemie, 2005, 117, 448-451.	2.0	19
58	Insights into the past and future of Janus-di-N-heterocyclic carbenes. Dalton Transactions, 2021, 50, 12748-12763.	3.3	18
59	Imidazolidines as hydride sources for the formation of late transition-metal monohydrides. Chemical Science, 2012, 3, 1300.	7.4	17
60	The Complex Coordination Landscape of a Digold(I) Uâ€Shaped Metalloligand. Angewandte Chemie, 2018, 130, 17058-17062.	2.0	16
61	Pyrene-Connected Tetraimidazolylidene Complexes of Iridium and Rhodium. Structural Features and Catalytic Applications. Organometallics, 2018, 37, 4070-4076.	2.3	16
62	Tetra-Au(I) Complexes Bearing a Pyrene Tetraalkynyl Connector Behave as Fluorescence Torches. Organometallics, 2018, 37, 1795-1800.	2.3	15
63	A Redox-Switchable Gold(I) Complex for the Hydroamination of Acetylenes: A Convenient Way for Studying Ligand-Derived Electronic Effects. ACS Catalysis, 2022, 12, 4465-4472.	11.2	15
64	A Twisted Tetragold Cyclophane from a Fused Bis-Imidazolindiylidene. Organometallics, 2019, 38, 4565-4569.	2.3	13
65	Platinumâ€Based Organometallic Folders for the Recognition of Electronâ€Deficient Aromatic Substrates. Chemistry - A European Journal, 2017, 23, 7272-7277.	3.3	11
66	Synthesis and Characterization of Polyâ€NHCâ€Derived Silver(I) Assemblies and Their Transformation into Polyâ€Imidazolium Macrocycles. European Journal of Inorganic Chemistry, 2021, 2021, 2442-2451.	2.0	9
67	Preparation and self-aggregation properties of a series of pyrene-imidazolylidene complexes of gold (I). Journal of Organometallic Chemistry, 2020, 917, 121284.	1.8	8
68	Redoxâ€Switchable Complexes Based on Nanographeneâ€NHCs. Chemistry - A European Journal, 2022, 28, .	3.3	8
69	Structural Features of Monoâ€and Dimetallic Complexes of Palladium Combining Two Types of Aromatic NHC Ligands. European Journal of Inorganic Chemistry, 2019, 2019, 3776-3781.	2.0	7
70	Templateâ€Controlled Synthesis of Polyimidazolium Salts by Multiple [2+2] Cycloaddition Reactions. Chemistry - A European Journal, 2020, 26, 11565-11570.	3.3	7
71	Synthesis and Properties of Chelating N-Heterocyclic Carbene Rhodium(I) Complexes: Synthetic Experiments in Current Organometallic Chemistry. Journal of Chemical Education, 2011, 88, 822-824.	2.3	2
72	Redoxâ€Switchable Cycloisomerization of Alkynoic Acids with Napthalenediimideâ€Derived Nâ€Heterocyclic Carbene Complexes. Angewandte Chemie, 2021, 133, 20156-20164.	2.0	2

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73	â€˜Pincer-tweezerâ€™ tetraimidazolium salts as hosts for halides. , 2022, 2, 100018.		0