

Nicolas MÃ©zailles

List of Publications by Year in descending order

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109137

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times ranked

4335
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscaled Metal Borides and Phosphides: Recent Developments and Perspectives. <i>Chemical Reviews</i> , 2013, 113, 7981-8065.	23.0	877
2	Controlled Design of Size-Tunable Monodisperse Nickel Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 1340-1349.	3.2	235
3	The U•C Double Bond: Synthesis and Study of Uranium Nucleophilic Carbene Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 963-972.	6.6	163
4	New mono- and bis-carbene samarium complexes: synthesis, X-ray crystal structures and reactivity. <i>Chemical Communications</i> , 2005, , 5178.	2.2	130
5	Exploring the Uranyl Organometallic Chemistry: From Single to Double Uranium•Carbon Bonds. <i>Journal of the American Chemical Society</i> , 2011, 133, 6162-6165.	6.6	123
6	Nickel phosphide nanocatalysts for the chemoselective hydrogenation of alkynes. <i>Nano Today</i> , 2012, 7, 21-28.	6.2	120
7	A Bis(thiophosphinoyl)methanediide Palladium Complex: Coordinated Dianion or Nucleophilic Carbene Complex?. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6382-6385.	7.2	118
8	Bis-phosphorus stabilised carbene complexes. <i>Dalton Transactions</i> , 2008, , 1957.	1.6	117
9	Phosphorus-Stabilized Geminal Dianions. <i>Organometallics</i> , 2006, 25, 4965-4976.	1.1	108
10	Thulium Alkylidene Complexes:• Synthesis, X-ray Structures, and Reactivity. <i>Organometallics</i> , 2006, 25, 1329-1332.	1.1	101
11	Nucleophilic Scandium Carbene Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 13108-13110.	6.6	98
12	Mechanistic Insight and Optimization of InP Nanocrystals Synthesized with Aminophosphines. <i>Chemistry of Materials</i> , 2016, 28, 5925-5934.	3.2	93
13	Direct Synthesis of Silylamine from N₂ and a Silane: Mediated by a Tridentate Phosphine Molybdenum Fragment. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11212-11216.	7.2	91
14	Easy access to uranium nucleophilic carbene complexes. <i>Dalton Transactions</i> , 2010, 39, 2494.	1.6	79
15	N₂ Reduction into Silylamine at Tridentate Phosphine/Mo Center: Catalysis and Mechanistic Study. <i>ACS Catalysis</i> , 2015, 5, 6902-6906.	5.5	79
16	Synthesis, Reactivity, and DFT Studies of S•C•S Zirconium(IV) Complexes. <i>Organometallics</i> , 2006, 25, 6030-6038.	1.1	78
17	A Bis(thiophosphinoyl)methylene Ruthenium Carbene Complex:• Synthesis, X-ray Crystal Structure, and DFT Calculations of Its Thermally Promoted Reverse •Hydride Migration Process. <i>Organometallics</i> , 2005, 24, 4838-4841.	1.1	77
18	From a Stable Dianion to a Stable Carbenoid. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5947-5950.	7.2	72

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19	White phosphorus as single source of P^{\ominus} in the synthesis of nickel phosphide. <i>Chemical Communications</i> , 2008, , 2568.	2.2	70
20	Catalytic Dinitrogen Reduction at the Molybdenum Center Promoted by a Bulky Tetradentate Phosphine Ligand. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14206-14210.	7.2	70
21	C-H Bond Trifluoromethylation of Arenes Enabled by a Robust, High-Valent Nickel(IV) Complex. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12898-12902.	7.2	68
22	A new and convenient approach towards bis(iminophosphoranyl)methane ligands and their dicationic, cationic, anionic and dianionic derivatives. <i>New Journal of Chemistry</i> , 2006, 30, 1745-1754.	1.4	65
23	25th Anniversary Article: Exploring Nanoscaled Matter from Speciation to Phase Diagrams: Metal Phosphide Nanoparticles as a Case of Study. <i>Advanced Materials</i> , 2014, 26, 371-390.	11.1	55
24	White phosphorus and metal nanoparticles: a versatile route to metal phosphide nanoparticles. <i>Chemical Communications</i> , 2010, 46, 5578.	2.2	52
25	C-H Bond Trifluoromethylation of Arenes Enabled by a Robust, High-Valent Nickel(IV) Complex. <i>Angewandte Chemie</i> , 2017, 129, 13078-13082.	1.6	51
26	Geminal Dianions Stabilized by Main Group Elements. <i>Chemical Reviews</i> , 2019, 119, 8555-8700.	23.0	48
27	Facile B-H Bond Activation of Borane by Stable Carbenoid Species. <i>Journal of the American Chemical Society</i> , 2013, 135, 8774-8777.	6.6	45
28	The Coordination Chemistry of Phosphinines: Their Polydentate and Macrocyclic Derivatives. <i>Progress in Inorganic Chemistry</i> , 2007, , 455-550.	3.0	43
29	Revisiting the Molecular Roots of a Ubiquitously Successful Synthesis: Nickel(0) Nanoparticles by Reduction of $[\text{Ni}(\text{acetylacetonate})_2]$. <i>Chemistry - A European Journal</i> , 2012, 18, 14165-14173.	1.7	43
30	Formation of a zwitterionic boronium species from the reaction of a stable carbenoid with borane: CO_2 reduction. <i>Chemical Communications</i> , 2015, 51, 2107-2110.	2.2	43
31	A Nucleophilic Gold(III) Carbene Complex. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12264-12267.	7.2	43
32	Synthesis and Reactivity of an Endo-cyclo P_4 Iron Complex. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1874-1878.	7.2	41
33	Room-Temperature Functionalization of N_2 to Borylamine at a Molybdenum Complex. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12865-12868.	7.2	39
34	First X-ray Crystal Study and DFT Calculations of Anionic P^{\ominus}_4 -Phosphinines. <i>Organometallics</i> , 2003, 22, 1960-1966.	1.1	38
35	Direct Synthesis of Silylamine from N_2 and a Silane: Mediated by a Tridentate Phosphine Molybdenum Fragment. <i>Angewandte Chemie</i> , 2016, 128, 11378-11382.	1.6	37
36	Conversion of Dinitrogen into Nitrile: Cross-Metathesis of N_2 -Derived Molybdenum Nitride with Alkynes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12242-12247.	7.2	37

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37	Mixed (P ³⁺ /P ³⁺ O) ⁻ Stabilized Geminal Dianion: Facile Diastereoselective Intramolecular C ¹ -H Activations by a Related Ruthenium ⁻ Carbene Complex. <i>Chemistry - A European Journal</i> , 2012, 18, 16136-16144.	1.7	36
38	Transmetalation of a nucleophilic carbene fragment: from early to late transition metals. <i>Chemical Communications</i> , 2012, 48, 3306.	2.2	31
39	Experimental and theoretical study of phosphinine sulfides. <i>New Journal of Chemistry</i> , 2007, 31, 1493.	1.4	28
40	BH ₃ Activation by Phosphorus-Stabilized Geminal Dianions: Synthesis of Ambiphilic Organoborane, DFT Studies, and Catalytic CO ₂ Reduction into Methanol Derivatives. <i>ACS Catalysis</i> , 2016, 6, 3030-3035.	5.5	28
41	Triphos ⁻ Fe dinitrogen and dinitrogen ⁻ hydride complexes: relevance to catalytic N ₂ reductions. <i>Chemical Communications</i> , 2018, 54, 11953-11956.	2.2	28
42	A Bis(thiophosphinoyl)methanediide Palladium Complex: Coordinated Dianion or Nucleophilic Carbene Complex?. <i>Angewandte Chemie</i> , 2004, 116, 6542-6545.	1.6	27
43	Synthesis of Phosphorus(V)-Stabilized Geminal Dianions. The Cases of Mixed P ⁺ /P ⁺ BH ₃ (X = S, O) and P ⁺ /SiMe ₃ Derivatives. <i>Organometallics</i> , 2013, 32, 498-508.	1.1	27
44	Nickel(II)-Promoted Homocoupling Reaction of 2-(Phosphinyl)halogenozirconocene Complexes: A New and Efficient Synthesis of 2,2 ⁻ -Biphosphinines. <i>Journal of Organic Chemistry</i> , 1998, 63, 4826-4828.	1.7	26
45	P ₄ functionalization by hydrides: direct synthesis of P ⁻ H bonds. <i>Chemical Communications</i> , 2016, 52, 5179-5182.	2.2	25
46	Aluminum-Hydride-Catalyzed Hydroboration of Carbon Dioxide. <i>Inorganic Chemistry</i> , 2021, 60, 4569-4577.	1.9	25
47	Catalytic Reduction of N ₂ to Borylamine at a Molybdenum Complex. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20210-20214.	7.2	25
48	⁻ (Diphosphine)Nickel ⁻ Catalyzed Negishi Cross ⁻ Coupling: An Experimental and Theoretical Study. <i>Chemistry - A European Journal</i> , 2015, 21, 7690-7694.	1.7	23
49	Alkene oligomerization via metallacycles: Recent advances and mechanistic insights. <i>Coordination Chemistry Reviews</i> , 2022, 450, 214227.	9.5	23
50	Stable Geminal Dianions as Precursors for Gem-Diorganometallic and Carbene Complexes. <i>Topics in Organometallic Chemistry</i> , 2014, , 63-127.	0.7	22
51	Scandium Carbene Complexes: Synthesis of Mixed Alkyl, Amido, and Phosphido Derivatives. <i>Organometallics</i> , 2015, 34, 63-72.	1.1	22
52	Bimetallic Phosphide (Ni,Cu) ₂ P Nanoparticles by Inward Phosphorus Migration and Outward Copper Migration. <i>Chemistry of Materials</i> , 2019, 31, 6124-6134.	3.2	20
53	P ₄ Activation with Pt ⁰ Metal Centers: Selective Formation of a Dinuclear {Pt ₂ (^{1/4} , ^{1/4}) ₂ } Complex. <i>Chemistry - A European Journal</i> , 2010, 16, 12064-12068.	1.7	19
54	Synthesis and Reactivity of an End ⁻ Deck <i>cyclo</i> ⁻ P ₄ Iron Complex. <i>Angewandte Chemie</i> , 2018, 130, 1892-1896.	1.6	19

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55	Bis-Phosphorus(V) Stabilized Carbene Complexes. <i>Letters in Organic Chemistry</i> , 2010, 7, 596-611.	0.2	16
56	Activation of X-H Bonds (X = N, P, O, S) with SCS Pincer Palladium Complexes: A Theoretical Study. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4068-4076.	1.0	16
57	Phosphorus-Stabilized Titanium Carbene Complexes: Synthesis, Reactivity and DFT Studies. <i>Chemistry - A European Journal</i> , 2014, 20, 16995-17003.	1.7	16
58	A Strained $\frac{1}{4}\text{C}^{\frac{1}{4}}\text{S}$ Ir Pincer Complex: Intramolecular C-H Activation of an Aromatic Ring. <i>Organometallics</i> , 2009, 28, 1969-1972.	1.1	15
59	Room-Temperature Functionalization of $\text{N}_{2\text{O}}$ to Borylamine at a Molybdenum Complex. <i>Angewandte Chemie</i> , 2018, 130, 13047-13050.	1.6	15
60	Phosphorus stabilized carbene complexes: bisphosphonate dianion synthesis, reactivity and DFT studies of $\text{O}^{\frac{1}{4}}\text{C}^{\frac{1}{4}}\text{O}$ zirconium(IV) complexes. <i>Dalton Transactions</i> , 2010, 39, 492-499.	1.6	14
61	Coordination Behavior of the S-C-S Monoanion and O-C-O and S-C-S Dianions toward Coll. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2540-2546.	1.0	13
62	Reactivity of Aromatic Phosphorus Heterocycles - Differences Between Nonfunctionalized and Pyridyl-Substituted 2,4,6-Triarylphosphinines. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 240-249.	1.0	13
63	A Nucleophilic Gold(III) Carbene Complex. <i>Angewandte Chemie</i> , 2017, 129, 12432-12435.	1.6	13
64	Stepwise Functionalization of $\text{N}_{2\text{O}}$ at Mo: Nitrido to Imido to Amido - Factors Favoring Amine Elimination from the Amido Complex. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1499-1505.	1.0	12
65	Room temperature reversible C-H activation mediated by a Pt(0) center, and stoichiometric biphenyl formation via solvent activation. <i>Chemical Communications</i> , 2012, 48, 8350.	2.2	11
66	Cross-Coupling through Ag(I)/Ag(III) Redox Manifold. <i>Chemistry - A European Journal</i> , 2021, 27, 15396-15405.	1.7	11
67	Rhodium (Thiophosphinoyl)(trimethylsilyl)methanide and Bis(thiophosphinoyl)methanide Complexes: S-S vs. C-S Coordination. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1453-1461.	1.0	10
68	Conversion of Dinitrogen into Nitrile: Cross-Metathesis of $\text{N}_{2\text{O}}$ -Derived Molybdenum Nitride with Alkynes. <i>Angewandte Chemie</i> , 2021, 133, 12350-12355.	1.6	10
69	[(dcp)Ni($\text{N}_{2\text{O}}$ -Arene)] Precursors: Synthesis, Reactivity, and Catalytic Application to the Suzuki-Miyaura Reaction. <i>Organometallics</i> , 2020, 39, 1688-1699.	1.1	9
70	Catalytic Reduction of N_2 to Borylamine at a Molybdenum Complex. <i>Angewandte Chemie</i> , 2021, 133, 20372-20376.	1.6	9
71	Tridentate Aryloxy-Based Titanium Catalysts towards Ethylene Oligomerization and Polymerization. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5272-5280.	1.0	8
72	Synthesis of Monodisperse InP Quantum Dots: Use of an Acid-Free Indium Carboxylate Precursor. <i>Inorganic Chemistry</i> , 2021, 60, 2271-2278.	1.9	7

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73	Nanoscale Metal Phosphide Phase Segregation to Bi/P Core/Shell Structure. Reactivity as a Source of Elemental Phosphorus. <i>Chemistry of Materials</i> , 2020, 32, 4213-4222.	3.2	6
74	The role of water in the synthesis of indium nanoparticles. <i>Chemical Communications</i> , 2016, 52, 14250-14253.	2.2	5
75	Simplified and versatile access to low valent Ni complexes by metal-free reduction of Ni ^{II} precursors. <i>Dalton Transactions</i> , 2019, 48, 4101-4104.	1.6	5
76	Reactivity and Structure of Complexes of Small Molecules: Dinitrogen. , 2021, , 875-958.		5
77	Double $\hat{C}\hat{H}$ bond insertion into sp^3 CH_2 moiety: synthesis of a Fe carbene bis-hydride dinitrogen complex. <i>Dalton Transactions</i> , 2021, 50, 9554-9559.	1.6	3
78	Synthesis of $L_2Ni(OR)_2$ ($R = Et, Ph$) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (C(CF ₃) ₂) ₂ Organometallics, 2021, 40, 4133-4142.	1.1	3
79	CO Activation by (Diphosphane)platinum(0): Carbonate and Acetone Formation - Experimental and Mechanistic Study. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4000-4007.	1.0	2
80	Mechanistic Investigations of the Synthesis of Size-Tunable Ni Nanoparticles by Reduction of Simple Ni ^{II} Diamide Precursors. <i>Chemistry - A European Journal</i> , 2017, 23, 9352-9361.	1.7	2
81	Frontispiece: Conversion of Dinitrogen into Nitrile: Cross-Metathesis of N_2 -Derived Molybdenum Nitride with Alkynes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	7.2	0
82	Frontispiz: Conversion of Dinitrogen into Nitrile: Cross-Metathesis of N_2 -Derived Molybdenum Nitride with Alkynes. <i>Angewandte Chemie</i> , 2021, 133, .	1.6	0