

Janis Louie

List of Publications by Year in descending order

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76
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7,576
citations

66315

42
h-index

64755

79
g-index

99
all docs

99
docs citations

99
times ranked

5975
citing authors

#	ARTICLE	IF	CITATIONS
1	Palladium-catalyzed synthesis of arylamines from aryl halides. Mechanistic studies lead to coupling in the absence of tin reagents. <i>Tetrahedron Letters</i> , 1995, 36, 3609-3612.	0.7	801
2	[2+2+2] Cycloaddition Reactions Catalyzed by Transition Metal Complexes. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 2307-2327.	2.1	653
3	Tandem Catalysis: The Sequential Mediation of Olefin Metathesis, Hydrogenation, and Hydrogen Transfer with Single-Component Ru Complexes. <i>Journal of the American Chemical Society</i> , 2001, 123, 11312-11313.	6.6	416
4	Efficient Nickel-Catalyzed [2 + 2 + 2] Cycloaddition of CO ₂ and Dienes. <i>Journal of the American Chemical Society</i> , 2002, 124, 15188-15189.	6.6	309
5	Metathesis of Electron-Rich Olefins: Structure and Reactivity of Electron-Rich Carbene Complexes. <i>Organometallics</i> , 2002, 21, 2153-2164.	1.1	268
6	Hexaaminobenzene as a building block for a Family of 2D Coordination Polymers. <i>Journal of the American Chemical Society</i> , 2017, 139, 19-22.	6.6	229
7	A Systematic Investigation of Factors Influencing the Decarboxylation of Imidazolium Carboxylates. <i>Journal of Organic Chemistry</i> , 2009, 74, 7935-7942.	1.7	225
8	Palladium-Catalyzed Amination of Aryl Triflates and Importance of Triflate Addition Rate. <i>Journal of Organic Chemistry</i> , 1997, 62, 1268-1273.	1.7	220
9	Tandem Catalysis: Three Mechanistically Distinct Reactions from a Single Ruthenium Complex. <i>Journal of the American Chemical Society</i> , 2000, 122, 12872-12873.	6.6	218
10	A Nickel-Catalyzed Route to Pyridines. <i>Journal of the American Chemical Society</i> , 2005, 127, 5030-5031.	6.6	211
11	Discrete High Molecular Weight Triarylamine Dendrimers Prepared by Palladium-Catalyzed Amination. <i>Journal of the American Chemical Society</i> , 1997, 119, 11695-11696.	6.6	191
12	Transition Metal Catalyzed Reactions of Carbon Dioxide and Other Heterocumulenes. <i>Current Organic Chemistry</i> , 2005, 9, 605-623.	0.9	180
13	N-Heterocyclic Carbenes as Highly Efficient Catalysts for the Cyclotrimerization of Isocyanates. <i>Organic Letters</i> , 2004, 6, 4679-4681.	2.4	165
14	Transmetalation, Involving Organotin Aryl, Thiolate, and Amide Compounds. An Unusual Type of Dissociative Ligand Substitution Reaction. <i>Journal of the American Chemical Society</i> , 1995, 117, 11598-11599.	6.6	164
15	A Route to Pd ⁰ from Pd ^{II} Metallacycles in Animation and Cross-Coupling Chemistry. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 2359-2361.	4.4	164
16	Nickel-Catalyzed Cycloaddition of Alkynes and Isocyanates. <i>Journal of the American Chemical Society</i> , 2004, 126, 11438-11439.	6.6	155
17	N-Heterocyclic Carbene Bound Nickel(I) Complexes and Their Roles in Catalysis. <i>Organometallics</i> , 2011, 30, 2546-2552.	1.1	141
18	Regioselectivity in nickel(0) catalyzed cycloadditions of carbon dioxide with diynes. <i>Tetrahedron</i> , 2004, 60, 7431-7437.	1.0	126

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19	Selectivity in Nickel-Catalyzed Rearrangements of Cyclopropyl-ynes. <i>Journal of the American Chemical Society</i> , 2005, 127, 5798-5799.	6.6	123
20	Trends in the Usage of Bidentate Phosphines as Ligands in Nickel Catalysis. <i>Chemical Reviews</i> , 2020, 120, 6124-6196.	23.0	122
21	Highly Active Nickel Catalysts for the Isomerization of Unactivated Vinyl Cyclopropanes to Cyclopentenones. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2277-2279.	7.2	121
22	Iron-Catalyzed Cycloaddition of Alkynenitriles and Alkynes. <i>Organic Letters</i> , 2011, 13, 2936-2939.	2.4	120
23	Femtosecond Excitation Energy Transport in Triarylamine Dendrimers. <i>Journal of the American Chemical Society</i> , 2002, 124, 6520-6521.	6.6	111
24	A Serendipitous Discovery: Nickel Catalyst for the Cycloaddition of Diynes with Unactivated Nitriles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10694-10698.	7.2	111
25	Advances in Nickel-Catalyzed Cycloaddition Reactions To Construct Carbocycles and Heterocycles. <i>Accounts of Chemical Research</i> , 2015, 48, 2354-2365.	7.6	107
26	Orthogonal self-assembly of an organoplatinum(II) metallacycle and cucurbit[8]uril that delivers curcumin to cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8087-8092.	3.3	88
27	Catalysis with Platinum-Group Alkylamido Complexes. The Active Palladium Amide in Catalytic Aryl Halide Aminations As Deduced from Kinetic Data and Independent Generation. <i>Organometallics</i> , 1996, 15, 2794-2805.	1.1	86
28	Nickel-Catalyzed Cycloaddition of Unsaturated Hydrocarbons and Carbonyl Compounds. <i>Organic Letters</i> , 2005, 7, 4037-4039.	2.4	83
29	Nickel-Catalyzed Cycloadditions of Unsaturated Hydrocarbons, Aldehydes, and Ketones. <i>Journal of Organic Chemistry</i> , 2008, 73, 2641-2648.	1.7	83
30	Iron-Catalyzed Formation of 2-Aminopyridines from Diynes and Cyanamides. <i>Journal of Organic Chemistry</i> , 2012, 77, 7555-7563.	1.7	79
31	A Single Step Approach to Piperidines via Ni-Catalyzed β^2 -Carbon Elimination. <i>Organic Letters</i> , 2012, 14, 2026-2029.	2.4	78
32	Nickel-Catalyzed [2+2+2] Cycloaddition of Diynes and Cyanamides. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 3815-3824.	1.2	74
33	An in Situ Approach for Nickel-Catalyzed Cycloaddition. <i>Journal of Organic Chemistry</i> , 2006, 71, 5834-5836.	1.7	72
34	The Discovery of $[\text{Ni}(\text{NHC})\text{RCN}]_2$ Species and Their Role as Cycloaddition Catalysts for the Formation of Pyridines. <i>Journal of the American Chemical Society</i> , 2012, 134, 15154-15162.	6.6	71
35	An Expedient Route to Eight-Membered Heterocycles By Nickel-Catalyzed Cycloaddition: Low-Temperature C-Cl Bond Cleavage. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8602-8606.	7.2	71
36	Nickel-Catalyzed Cycloaddition of 1,3-Dienes with Azetidinones and Oxetanones. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12161-12165.	7.2	65

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37	Ni-Catalyzed Ketene Cycloaddition: A System That Resists the Formation of Decarbonylation Side Products. <i>Journal of the American Chemical Society</i> , 2011, 133, 7719-7721.	6.6	61
38	Mechanism of the Ni(0)-Catalyzed Vinylcyclopropane \rightarrow Cyclopentene Rearrangement. <i>Journal of Organic Chemistry</i> , 2009, 74, 7822-7833.	1.7	59
39	The Largest Discrete Oligo(m-aniline). An Exponential Growth Strategy Using Palladium-Catalyzed Amination of Aryl Sulfonates. <i>Macromolecules</i> , 1998, 31, 6737-6739.	2.2	55
40	A nickel(0) catalyzed cycloaddition of alkynes and isocyanates that affords pyrimidine-diones. <i>Tetrahedron</i> , 2006, 62, 7552-7559.	1.0	50
41	Regioselective Iron-Catalyzed [2 + 2 + 2] Cycloaddition Reaction Forming 4,6-Disubstituted 2-Aminopyridines from Terminal Alkynes and Cyanamides. <i>Journal of Organic Chemistry</i> , 2017, 82, 234-242.	1.7	47
42	The iron-catalyzed construction of 2-aminopyrimidines from alkynenitriles and cyanamides. <i>Chemical Communications</i> , 2013, 49, 7735.	2.2	46
43	Mechanistic Evaluation of the Ni(IPr) ₂ -Catalyzed Cycloaddition of Alkynes and Nitriles To Afford Pyridines: Evidence for the Formation of a Key η^1 -Ni(IPr) ₂ (RCN) Intermediate. <i>Organometallics</i> , 2013, 32, 4952-4960.	1.1	43
44	Regioselectivity in nickel(0)/phosphine catalyzed cycloadditions of alkynes and isocyanates. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 5098-5104.	0.8	41
45	Imidazolidene Carboxylate Bound MBPh ₄ Complexes (M = Li, Na) and Their Relevance in Transcarboxylation Reactions. <i>Journal of Organic Chemistry</i> , 2011, 76, 8413-8420.	1.7	39
46	Coupling of vinyl aziridines and phenyl isocyanate. <i>Tetrahedron Letters</i> , 2008, 49, 4306-4309.	0.7	36
47	Reaction of Diazoalkanes with Iron Phosphine Complexes Affords Novel Phosphazine Complexes. <i>Organometallics</i> , 2001, 20, 481-484.	1.1	34
48	Comprehensive Study of the Reactions Between Chelating Phosphines and Ni(cod) ₂ . <i>Organometallics</i> , 2018, 37, 3259-3268.	1.1	31
49	Ni(NHC)]-Catalyzed Cycloaddition of Diynes and Tropone: Apparent Enone Cycloaddition Involving an η^6 Insertion. <i>Journal of the American Chemical Society</i> , 2014, 136, 17844-17851.	6.6	30
50	Synthesis, mechanism of formation, and catalytic activity of Xantphos nickel η^6 -complexes. <i>Chemical Communications</i> , 2014, 50, 15577-15580.	2.2	30
51	Rhodium-catalyzed addition of alcohols to terminal enones. <i>Tetrahedron Letters</i> , 2004, 45, 7441-7443.	0.7	29
52	Nickel-Catalyzed Cycloadditive Couplings of Enynes and Isocyanates. <i>Organic Letters</i> , 2009, 11, 4168-4171.	2.4	24
53	<i>Organometallics</i> Roundtable 2013 \rightarrow 2014. <i>Organometallics</i> , 2014, 33, 1505-1527.	1.1	24
54	Rhodium-Catalyzed Decarboxylative Cycloaddition Route to Substituted Anilines. <i>Journal of Organic Chemistry</i> , 2011, 76, 4686-4691.	1.7	23

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55	Palladium-Catalyzed Arylation of Cyanamides. <i>Organic Letters</i> , 2012, 14, 322-325.	2.4	22
56	An <i>in Situ</i> Approach to Nickel-Catalyzed Cycloaddition of Alkynes and 3-Azetidinones. <i>Journal of Organic Chemistry</i> , 2015, 80, 9951-9958.	1.7	22
57	Nickel-catalyzed cycloisomerization of enynes: catalyst generation via C-H activation of carbene ligands. <i>Tetrahedron</i> , 2008, 64, 6870-6875.	1.0	21
58	Nickel-catalyzed reactions of vinyl aziridines and aziridinyl-enynes. <i>Tetrahedron Letters</i> , 2008, 49, 6797-6799.	0.7	19
59	Semiconducting to Metallic Electronic Landscapes in Defect-Controlled 2D Conjugated Coordination Polymer Thin Films. <i>Advanced Functional Materials</i> , 2021, 31, 2006920.	7.8	19
60	Nickel-Catalyzed Cycloaddition of 1,3-Dienes with Azetidines and Oxetanones. <i>Angewandte Chemie</i> , 2013, 125, 12383-12387.	1.6	17
61	3,5-Disubstituted 2-Aminopyridines via Nickel-Catalyzed Cycloaddition of Terminal Alkynes and Cyanamides. <i>Synlett</i> , 2015, 26, 307-312.	1.0	17
62	Synergy between Experimental and Computational Chemistry Reveals the Mechanism of Decomposition of Nickel-Ketene Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 14083-14091.	6.6	16
63	Synthesis and Characterization of [(NHC)Ni(styrene) ₂] Complexes: Isolation of Monocarbene Nickel Complexes and Benchmarking of σ -Bur in (NHC)Ni- η^5 -Systems. <i>Organometallics</i> , 2018, 37, 3687-3697.	1.1	16
64	Unique Thermoelectric Properties Induced by Intrinsic Nanostructuring in a Polycrystalline Thin-Film Two-Dimensional Metal-Organic Framework, Copper Benzenehexathiol. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000437.	0.8	16
65	Nickel-Mediated Cycloaddition by Two Sequential C-H Activations. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10768-10769.	7.2	13
66	Hierarchical Self-Assembly of a Water-Soluble Organoplatinum(II) Metallacycle into Well-Defined Nanostructures. <i>Organic Letters</i> , 2018, 20, 7020-7023.	2.4	13
67	Electronic Effect of Ligands on the Stability of Nickel-Ketene Complexes. <i>Organometallics</i> , 2018, 37, 3750-3755.	1.1	10
68	Ni-NHC Mediated Catalysis. , 2006, , 163-182.		7
69	Total Synthesis of Indolizidine Alkaloids via Nickel-Catalyzed (4 + 2) Cyclization. <i>Organic Letters</i> , 2020, 22, 924-928.	2.4	6
70	Origins of Regio- and Chemoselectivity in Iron-PDAI-Catalyzed [2+2+2] Cycloaddition Syntheses of 4,6-Disubstituted 2-Aminopyridines. <i>ACS Catalysis</i> , 2021, 11, 14677-14687.	5.5	6
71	Improved Total Synthesis of Indolizidine and Quinolizidine Alkaloids via Nickel-Catalyzed (4 + 2) Cycloaddition. <i>Journal of Organic Chemistry</i> , 2022, 87, 8871-8883.	1.7	3
72	Highly Active Metathesis Catalysts Generated In Situ from Inexpensive and Air-Stable Precursors J.L. acknowledges the National Institute of Health for a postdoctoral fellowship. We thank Christopher W. Bielawski for helpful discussions.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 247-249.	7.2	2

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73	Efficient Nickel-Catalyzed [2 + 2 + 2] Cycloaddition of CO ₂ and Dienes.. ChemInform, 2003, 34, no.	0.1	0
74	Highly Active Nickel Catalysts for the Isomerization of Unactivated Vinyl Cyclopropanes to Cyclopentenes.. ChemInform, 2004, 35, no.	0.1	0
75	Regioselectivity in Nickel(0) Catalyzed Cycloadditions of Carbon Dioxide with Dienes.. ChemInform, 2004, 35, no.	0.1	0
76	N-Heterocyclic Carbene Complexes in Cyclisation Reactions. Catalysis By Metal Complexes, 2010, , 131-156.	0.6	0