

Joseph M O'connor

List of Publications by Year in descending order

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86
papers

2,619
citations

218381

26
h-index

197535

49
g-index

88
all docs

88
docs citations

88
times ranked

1971
citing authors

#	ARTICLE	IF	CITATIONS
1	Ring-slippage chemistry of transition metal cyclopentadienyl and indenyl complexes. <i>Chemical Reviews</i> , 1987, 87, 307-318.	23.0	478
2	Hexahapto Metal Coordination to Curved Polyaromatic Hydrocarbon Surfaces: The First Transition Metal Corannulene Complex. <i>Journal of the American Chemical Society</i> , 1997, 119, 4781-4782.	6.6	124
3	Structural and Spectroscopic Characterization of a Charge-Separated Uranium Benzophenone Ketyl Radical Complex. <i>Journal of the American Chemical Society</i> , 2008, 130, 6567-6576.	6.6	103
4	Some aspects of palladium-catalyzed reactions of aryl and vinylic halides with conjugated dienes in the presence of mild nucleophiles. <i>Journal of Organic Chemistry</i> , 1983, 48, 807-809.	1.7	94
5	Nucleophilic Addition to <i>ap</i> -Benzynes Derived from an Enediyne: A New Mechanism for Halide Incorporation into Biomolecules. <i>Journal of the American Chemical Society</i> , 2007, 129, 4795-4799.	6.6	89
6	Metal-catalyzed decarbonylation of primary aldehydes at room temperature. <i>Journal of Organic Chemistry</i> , 1992, 57, 5075-5077.	1.7	80
7	Charge-Separation in Uranium Diazomethane Complexes Leading to C-H Activation and Chemical Transformation. <i>Journal of the American Chemical Society</i> , 2008, 130, 2806-2816.	6.6	76
8	[2 + 2 + 1] Alkyne Cyclotrimerizations: A Metallacyclopentadiene Route to Fulvenes. <i>Journal of the American Chemical Society</i> , 1997, 119, 3631-3632.	6.6	69
9	Synthesis of electrophilic (dimethylcarbene)iron complexes. <i>Journal of the American Chemical Society</i> , 1982, 104, 3761-3762.	6.6	68
10	Surreptitious involvement of a metallacycle substituent in metal-mediated alkyne cleavage chemistry. <i>Journal of the American Chemical Society</i> , 1990, 112, 9013-9015.	6.6	59
11	A Transition-Metal-Catalyzed Enediyne Cycloaromatization. <i>Journal of the American Chemical Society</i> , 2005, 127, 16342-16343.	6.6	59
12	Interconversions of η^5 -cyclopentadienyl, η^1 -cyclopentadienyl, and ionic η^0 -cyclopentadienyl rhenium compounds - x-ray crystal structure of tetrakis(trimethylphosphine)methylnitrosylrhenium cyclopentadienide. <i>Journal of the American Chemical Society</i> , 1985, 107, 1241-1246.	6.6	55
13	Inhibition and Acceleration of the Bergman Cycloaromatization Reaction by the Pentamethylcyclopentadienyl Ruthenium Cation. <i>Journal of the American Chemical Society</i> , 2000, 122, 12057-12058.	6.6	51
14	Ruthenium-Mediated Cycloaromatization of Acyclic Enedynes and Dienynes at Ambient Temperature. <i>Journal of the American Chemical Society</i> , 2002, 124, 3506-3507.	6.6	50
15	Synthesis, structure, and reactivity of metallacycle-carbene and -bis(carbene) complexes. A new intramolecular carbene-carbene coupling process. <i>Journal of the American Chemical Society</i> , 1990, 112, 6232-6247.	6.6	49
16	The η^5 to η^1 conversions of indenyltricarbonylrhenium. <i>Organometallics</i> , 1985, 4, 384-388.	1.1	48
17	Formation of a stable metallacyclobutene complex from α -diazocarbonyl and alkyne substrates. <i>Journal of the American Chemical Society</i> , 1993, 115, 1586-1588.	6.6	46
18	Stepwise assembly of a trinuclear bis(carbyne) complex from cyclopentadienylcobalt units with bis(trimethylsilyl)acetylene: isolation and conversion of Cp ₂ M ₂ (RC.tplbond.CR) and CpM ₃ (RC.tplbond.CR) [M = Co and R = (CH ₃) ₃ Si]. <i>Organometallics</i> , 1986, 5, 394-397.	1.1	43

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37	An η^6 -Dienyne Transition-Metal Complex. <i>Journal of the American Chemical Society</i> , 2005, 127, 9346-9347.	6.6	20
38	Carbene ligand insertion into a metallacycle ring: a metallacyclopentadiene to metallacyclobutene conversion. <i>Journal of the American Chemical Society</i> , 1990, 112, 6731-6732.	6.6	19
39	Synthesis and reactions of a cyclopentadienylidene ketene complex. <i>Journal of the American Chemical Society</i> , 1985, 107, 3172-3177.	6.6	18
40	Reactions of a Metallacyclobutene Complex with Alkenes. <i>Journal of the American Chemical Society</i> , 2008, 130, 10093-10095.	6.6	18
41	Transition-Metal Hydrides as Hydrogen Atom Donors: Stronger Metal-Hydrogen Bonds Can Be Advantageous. <i>Organometallics</i> , 2008, 27, 4280-4281.	1.1	18
42	New transition metal binding modes for creatinine: molecular structures of $[(C_4R_4)Ir(C_4H_7N_3O)(PPh_3)_2Cl]$ and $[(C_4R_4)Ir(C_4H_7N_3O)(PPh_3)_2]BF_4$, (R = CO ₂ CH ₃). <i>Polyhedron</i> , 1997, 16, 2029-2035.	1.0	17
43	Thermolysis of $[(\eta^5-C_5H_5)Co(PPh_3)(\eta^2-DMAD)]$, revisited: a solid state analysis reveals the true structure of the triphenylphosphine-alkyne coupling product. <i>Journal of Organometallic Chemistry</i> , 2003, 671, 1-7.	0.8	17
44	Chemistry at the Alkyne-Carbene Intersection: A Metallacyclobutene-Vinylcarbene Equilibration. <i>Journal of the American Chemical Society</i> , 2013, 135, 8826-8829.	6.6	17
45	Formal Vinylidene Ligand Insertion into a Metal Halide Bond. <i>Journal of the American Chemical Society</i> , 1995, 117, 8861-8862.	6.6	16
46	Diazoketones Undergo Reaction with a Cobalt Alkyne Complex To Give Highly Functionalized Conjugated Dienes. <i>Organometallics</i> , 1997, 16, 5589-5591.	1.1	16
47	Conversion of an $\eta^5-C_5H_5$ complex into a cyclopentadienylidene ketene complex. <i>Journal of the American Chemical Society</i> , 1983, 105, 2919-2920.	6.6	15
48	Conversion of a Metallacyclobutene to Cobalt-Allene Complexes. <i>Journal of the American Chemical Society</i> , 1998, 120, 1100-1101.	6.6	15
49	Conversion of $(\eta^5-C_5H_5)Co(PPh_3)_2$ and Nitro Compounds to Mononuclear $\eta^1(N)$ -Nitrosoalkyl and Dinuclear $\eta^1(N)\eta^1(N,O)$ -Nitrosoaryl Complexes. <i>Organometallics</i> , 2003, 22, 5268-5273.	1.1	14
50	Nucleophilic cleavage of the sp ³ carbon-oxygen bond in alkoxy-carbene complexes: conversion of 2-oxacyclopentylidene ligands to pyridinium-substituted acyl ligands. <i>Organometallics</i> , 1988, 7, 2060-2062.	1.1	13
51	Synthesis and Structural Characterization of a Diiridium μ -Acyl Complex. <i>Organometallics</i> , 1995, 14, 2102-2105.	1.1	13
52	Fluoride induced isomerization of cobalt diene complexes. <i>Tetrahedron Letters</i> , 1997, 38, 5241-5244.	0.7	13
53	Transition-Metal Catalysis of Triene μ -Electrocyclization: The π -Complexation Strategy Realized. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17958-17965.	7.2	13
54	Synthesis and structural characterization of bimetallic μ -malonyl complexes. <i>Journal of the American Chemical Society</i> , 1990, 112, 7585-7598.	6.6	12

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55	Bimetallic μ -malonyl compounds. Synthesis, characterization, and reactivity of $(\eta^5\text{-C}_5\text{Me}_5)\text{Re}(\text{NO})(\text{PPh}_3)\text{-cyclo}[(\mu\text{-}\eta^1, \eta^2\text{-COCH}_2\text{CO})\text{M}(\text{CO})_4]$ (M = Re, Mn). <i>Organometallics</i> , 1987, 6, 1987-1989.	1.1	11
56	Synthesis and characterization of a novel bimetallic μ -malonyl complex. The first x-ray crystal structure of alkali metal chelation by a neutral malonyl compound. <i>Journal of the American Chemical Society</i> , 1989, 111, 7633-7634.	6.6	11
57	Phosphine induced cyclopentadienyl ring slippage catalyzes CO insertion into a methyl rhenium compound to produce an acetyl rhenium compound. <i>Journal of Organometallic Chemistry</i> , 1992, 428, 99-105.	0.8	11
58	A high-yield conversion of trans-carbonylchlorobis(triphenylphosphine)rhodium to chlorotris(triphenylphosphine) rhodium. <i>Inorganic Chemistry</i> , 1993, 32, 1866-1867.	1.9	11
59	Nitroso Compounds Serve as Precursors to Late-Metal $\text{I}^{2+}(\text{N}=\text{O})$ -Hydroxylamido Complexes. <i>Organometallics</i> , 2009, 28, 394-396.	1.1	11
60	Ring-strain effects on the oxidation potential of enediynes and enediyne complexes. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 763-766.	1.5	10
61	Observation of a transition metal-enol complex and stereoselective keto-enol tautomerization in transition metal-acyl compounds. <i>Journal of the American Chemical Society</i> , 1988, 110, 4448-4450.	6.6	9
62	Structural Characterization of $(\text{C}_5\text{H}_5)_2\text{Co}(\text{PPh}_3)_2(\text{I}^{2+}\text{-alkyne})$ and $(\text{C}_5\text{H}_5)_2\text{Co}(\text{I}^{2+}\text{-alkyne})$ Complexes of Highly Polarized Alkynes. <i>Organometallics</i> , 2013, 32, 5473-5480.	1.1	9
63	Envelope-Flip Dynamics in $\text{CpCo}(\text{Diene})$ Complexes: An ab Initio Quantum Mechanical Study. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10126-10131.	1.1	8
64	Synthesis and solid-state structures of (triphos)iridacyclopentadiene complexes as models for vinylidene intermediates in the [2+2+1] cyclootrimerization of alkynes. <i>Inorganica Chimica Acta</i> , 2010, 364, 220-225.	1.2	8
65	Addition of Dissimilar Carbenes across an Unsymmetrically Substituted Alkyne: Regio- and Stereoselective Synthesis of Trisubstituted 1,3-Dienes. <i>Organometallics</i> , 2011, 30, 369-371.	1.1	8
66	Photoactivated Transition-Metal Triggers for Ambient Temperature Enediyne and Dienyne Cyclization: Ruthenium- I^{6+} -Naphthalene Complexes. <i>Organometallics</i> , 2017, 36, 3967-3973.	1.1	7
67	Electrochemistry Studies of a Metallacyclobutene Complex: Synthesis of a Furan Product by Oxidation of a Cobaltacyclobutene. <i>Organometallics</i> , 1998, 17, 1007-1009.	1.1	6
68	Iridium(III) vinylidene chemistry: Conversion of an iridacyclopentadiene-chlorido complex and terminal alkynes to iridacyclopentadiene vinyl complexes. <i>Inorganica Chimica Acta</i> , 2008, 361, 3033-3041.	1.2	6
69	Thermodynamic control of stereochemistry in alkylation of chiral transition-metal β -oxoacyl compounds: enolization without epimerization. <i>Organometallics</i> , 1988, 7, 2422-2424.	1.1	5
70	Low-valent Organorhenium Compounds. , 1995, , 167-229.		5
71	Protonation of Cobalt Allene Constitutional Isomers: Highly Selective Formation of Cobalt Allyl and Oxacobaltacyclopentadiene Complexes. <i>Organometallics</i> , 2010, 29, 6161-6164.	1.1	5
72	Reactivity studies on bimetallic μ -malonyl complexes: cleavage and alkylation chemistry of the malonyl ligand. <i>Journal of Organometallic Chemistry</i> , 1993, 455, 143-156.	0.8	4

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73	Conversion of a metallaenolate complex to a bimetallic η^4 -ketene complex: molecular structure of $(\eta^5\text{-C}_5\text{Me}_5)(\text{NO})(\text{PPh}_3)\text{Re}[\eta^4\text{-}(\text{COCH}_2)\text{-C}_1\text{:C}_2]\text{Re}(\text{CO})_4(\text{PPh}_3)$. <i>Polyhedron</i> , 1993, 12, 527-532.	1.0	3
74	A Photochemical Metallocene Route to Anionic Enediynes: Synthesis, Solid-State Structures, and ab Initio Computations on Cyclopentadienoidenediynes. <i>Journal of the American Chemical Society</i> , 2010, 132, 11030-11032.	6.6	3
75	Synthesis of the cobalt η^5 -alkyne complex $(\eta^5\text{-C}_5\text{H}_5)(\text{PPh}_3)\text{Co}\{\eta^2\text{-}(\text{Me}_3\text{Si})\text{CC}(\text{CO}_2\text{Et})\}$ and structural characterization of trimethylsilyl substituted cobaltacyclopentadiene complexes derived therefrom. <i>Journal of Organometallic Chemistry</i> , 2014, 749, 100-105.	0.8	3
76	Structure and dynamics in unsymmetrically substituted five-coordinate iridacyclopentadiene complexes. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 199-202.	0.9	3
77	Stereospecific Oxidative Demetallation of Highly Functionalized CpCo(1,3-Diene) Complexes: An Experimental and Computational Study. <i>Synlett</i> , 2015, 26, 2243-2246.	1.0	3
78	Stereoselective Formation of η^6 -Arene Ruthenium(II) Complexes via Metal-Triggered Bergman and Hopf Cycloaromatizations. <i>Organometallics</i> , 2017, 36, 4256-4267.	1.1	3
79	Structure of $[\text{P}(\text{CH}_3)(\text{C}_6\text{H}_5)_3]_2[\{\text{IPd}[\text{CC}(\text{=O})(\text{OCH}_3)]_4\}_2]$. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1989, 45, 1626-1628.	0.4	2
80	The Isolation of a Large Cyclopentadienylcobaltsulfide Cluster. The Synthesis and Crystal Structure of Octahedral closo- $(\eta^5\text{-C}_5\text{H}_5\text{Co})_5\text{S}$. <i>Journal of Cluster Science</i> , 2009, 20, 261-265.	1.7	2
81	Selective Oxidation of a Highly-Substituted η^4 -Cyclopentadiene Cobalt Complex: Partitioning Between Uncomplexed Diene and Cobalticinium Cation Products. <i>Synlett</i> , 1989, 1989, 57-59.	1.0	1
82	Acid-Induced Liberation of Polysubstituted Cyclopentadiene Ligands from Cyclopentadienyl Cobalt: A $[2 + 2 + 1]$ Cycloaddition Route toward 1,2,4-Trisubstituted Cyclopentadienes. <i>Journal of Organic Chemistry</i> , 2019, 84, 13992-14004.	1.7	1
83	Triple carbon σ -fluorine bond activation for modification of metal ligands: Synthesis of the first $\eta^5\text{-C}_5\text{Me}_4(\text{CHPh}_2)$ transition metal complex. <i>Polyhedron</i> , 2019, 157, 406-409.	1.0	1
84	NMR cyberinfrastructure: Web-based virtual file system for managing distributed NMR data. , 2010, , .		0
85	Metal-Alkyne and Metallacyclobutene Reactivity toward a Diazoacetamide: Conversion to Highly Functionalized 1,3-Diene Complexes and Oxametallacyclopentadienes. <i>Organometallics</i> , 2019, 38, 863-869.	1.1	0
86	Transition-Metal Catalysis of Triene σ -Electrocyclization: The π -Complexation Strategy Realized. <i>Angewandte Chemie</i> , 2020, 132, 18114-18121.	1.6	0