

# Joseph M O connor

## List of Publications by Citations

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84  
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2,319  
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45  
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88  
ext. papers

2,451  
ext. citations

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L-index

#	Paper	IF	Citations
84	Ring-slippage chemistry of transition metal cyclopentadienyl and indenyl complexes. <i>Chemical Reviews</i> , <b>1987</b> , 87, 307-318	68.1	427
83	Hexahapto Metal Coordination to Curved Polyaromatic Hydrocarbon Surfaces: The First Transition Metal Corannulene Complex. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 4781-4782	16.4	114
82	Structural and spectroscopic characterization of a charge-separated uranium benzophenone ketyl radical complex. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 6567-76	16.4	94
81	Nucleophilic addition to a p-benzyne derived from an enediyne: a new mechanism for halide incorporation into biomolecules. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 4795-9	16.4	83
80	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> , <b>1983</b> , 48, 807-809	4.2	75
79	Charge-separation in uranium diazomethane complexes leading to C-H activation and chemical transformation. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 2806-16	16.4	69
78	Metal-catalyzed decarbonylation of primary aldehydes at room temperature. <i>Journal of Organic Chemistry</i> , <b>1992</b> , 57, 5075-5077	4.2	66
77	[2 + 2 + 1] Alkyne Cyclotrimerizations: A Metallacyclopentadiene Route to Fulvenes. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 3631-3632	16.4	65
76	Surreptitious involvement of a metallacycle substituent in metal-mediated alkyne cleavage chemistry. <i>Journal of the American Chemical Society</i> , <b>1990</b> , 112, 9013-9015	16.4	56
75	Synthesis of electrophilic (dimethylcarbene)iron complexes. <i>Journal of the American Chemical Society</i> , <b>1982</b> , 104, 3761-3762	16.4	56
74	A transition-metal-catalyzed enediyne cycloaromatization. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 16342-3	16.4	55
73	Interconversions of $\eta^5$ -cyclopentadienyl, $\eta^1$ -cyclopentadienyl, and ionic " $\eta^0$ "-cyclopentadienyl rhenium compounds - x-ray crystal structure of tetrakis(trimethylphosphine)methylnitrosylrhenium cyclopentadienide. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 1241-1246	16.4	47
72	Ruthenium-mediated cycloaromatization of acyclic enediynes and dienynes at ambient temperature. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 3506-7	16.4	45
71	Inhibition and Acceleration of the Bergman Cycloaromatization Reaction by the Pentamethylcyclopentadienyl Ruthenium Cation. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 12057-12058	16.4	43
70	The $\eta^5$ to $\eta^1$ conversions of indenyltricarbonylrhenium. <i>Organometallics</i> , <b>1985</b> , 4, 384-388	3.8	43
69	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> , <b>1990</b> , 112, 6232-6247	16.4	42
68	Formation of a stable metallacyclobutene complex from $\alpha$ -diazocarbonyl and alkyne substrates. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 1586-1588	16.4	38

67	Intermediates in the associative phosphine substitution reaction of $(\eta^5\text{-C}_5\text{H}_5)\text{Re}(\text{CO})_3$ . <i>Organometallics</i> , <b>1983</b> , 2, 535-538	3.8	38
66	Stepwise assembly of a trinuclear bis(carbyne) complex from cyclopentadienylcobalt units with bis(trimethylsilyl)acetylene: isolation and conversion of $\text{Cp}_2\text{M}_2(\text{RC.tplbond.CR})$ and $\text{CpM}_3(\text{RC.tplbond.CR})$ [M = Co and R = $(\text{CH}_3)_3\text{Si}$ ]. <i>Organometallics</i> , <b>1986</b> , 5, 394-397	3.8	37
65	Acceleration of conjugated diyne cycloaromatization. <i>Chemical Reviews</i> , <b>2011</b> , 111, 7904-22	68.1	34
64	Ring selectivity and migratory aptitude of $\text{Cp}^*\text{Ru}^+$ complexation to acecorannulene. <i>Chemical Communications</i> , <b>2004</b> , 950-1	5.8	34
63	Iridacyclopentadiene Reactions with Terminal Alkynes: Tandem Cycloaromatization and Orthometalation. <i>Organometallics</i> , <b>2001</b> , 20, 3710-3717	3.8	34
62	Hydrotris(pyrazolyl)borate metallacycles: conversion of a late-metal metallacyclopentene to a stable metallacyclopentadiene-alkene complex. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 2434-5	16.4	32
61	On the mechanism of a new metallacycle annelation reaction: evidence for an intramolecular methoxy group transfer. <i>Journal of the American Chemical Society</i> , <b>1990</b> , 112, 9663-9665	16.4	31
60	Cobalt 1,3-Diisopropyl-1H-imidazol-2-ylidene Complexes: Synthesis, Solid-State Structures, and Quantum Chemistry Calculations. <i>Organometallics</i> , <b>2010</b> , 29, 6695-6702	3.8	26
59	Sulfoxide carbon-sulfur bond activation. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 4180-1	16.4	25
58	Prop-2-ynyl alcohol as a precursor to the $\eta^2$ -ethenyl ligand. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1995</b> , 1209-1210		25
57	Late metal metallacyclobutene chemistry: conversion to $\eta^4$ -vinylketene, $\eta^4$ -vinylketenimine, and furan products. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 9846-9847	16.4	25
56	Synthesis and Structure of Annelated Carbon Rings Containing a Bridgehead Transition Metal. <i>Angewandte Chemie International Edition in English</i> , <b>1990</b> , 29, 543-545		22
55	The first stable metallacycle-carbene complexes: structural characterization of [cyclic] $\text{Ir}(\text{CR:CR:CR})(\text{PPh}_3)_2(\text{CO})(\text{:C}(\text{CH}_2)_3\text{O})+\text{BF}_4^-$ , R = $\text{CO}_2\text{CH}_3$ . <i>Journal of the American Chemical Society</i> , <b>1987</b> , 109, 7578-7579	16.4	22
54	Synthesis and Solid State Characterization of a Meridional Triphos Iridium Metallacycle-Carbene Complex: $[\{\text{PhP}(\text{CH}_2\text{CH}_2\text{PPh}_2)_2\} \text{Ir}(\text{CR:CR:CR})(\text{:C}(\text{CH}_2)_3\text{O})][\text{BF}_4]$ (R = $\text{Co}_2\text{Me}$ ). <i>Organometallics</i> , <b>2001</b> , 20, 1482-1485	3.8	21
53	Oxidative coupling of cis-carbene ligands: synthesis, structure, and reactivity of an iridium(III) bis(oxacyclopentylidene) complex. <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 4129-4130	16.4	21
52	Keto-enol tautomerization in metal-acyl complexes: the enolization properties of bimetallic $\mu$ -malonyl compounds. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 4530-4544	16.4	21
51	An $\eta^6$ -diyne transition-metal complex. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 9346-7	16.4	20
50	Metallacycle annelation: reaction of a metallacycle $\alpha$ -substituent and a vinylidene ligand to give a bicyclic metallalactone complex. <i>Journal of the American Chemical Society</i> , <b>1990</b> , 112, 9627-9628	16.4	20

49	Transition-Metal Hydrides as Hydrogen Atom Donors: Stronger Metal-Hydrogen Bonds Can Be Advantageous. <i>Organometallics</i> , <b>2008</b> , 27, 4280-4281	3.8	18
48	A new mode of carbene reactivity: coupling with two alkynes to generate highly substituted cyclopentadiene products. <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 1889-1891	16.4	18
47	New transition metal binding modes for creatinine: molecular structures of [(C4R4)Ir(C4H7N3O)(PPh3)2Cl] and [(C4R4)Ir(C4H7N3O)(PPh3)2]BF4, (R = CO2CH3). <i>Polyhedron</i> , <b>1997</b> , 16, 2029-2035	2.7	17
46	Reactions of a metallacyclobutene complex with alkenes. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 10093-5	16.4	17
45	Thermolysis of [( $\eta$ -C5H5)Co(PPh3)( $\eta$ -DMAD)], revisited: a solid state analysis reveals the true structure of the triphenylphosphine-alkyne coupling product. <i>Journal of Organometallic Chemistry</i> , <b>2003</b> , 671, 1-7	2.3	17
44	A New Metal-Mediated Cyclization: Conversion of a Metallacyclobutene and Alkyne Substrates to $\eta$ -4-Cyclopentadiene Products. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 8029-8030	16.4	17
43	Carbene ligand insertion into a metallacycle ring: a metallacyclopentadiene to metallacyclobutene conversion. <i>Journal of the American Chemical Society</i> , <b>1990</b> , 112, 6731-6732	16.4	16
42	Chemistry at the alkyne-carbene intersection: a metallacyclobutene- $\beta$ -vinylcarbene equilibration. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 8826-9	16.4	15
41	Diazoketones Undergo Reaction with a Cobalt Alkyne Complex To Give Highly Functionalized Conjugated Dienes. <i>Organometallics</i> , <b>1997</b> , 16, 5589-5591	3.8	15
40	Synthesis and reactions of a cyclopentadienylidene ketene complex. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 3172-3177	16.4	15
39	Conversion of ( $\eta$ -C5H5)Co(PPh3)2 and Nitro Compounds to Mononuclear $\eta$ (N)-Nitrosoalkyl and Dinuclear $\eta$ (N): $\eta$ (N,O)-Nitrosoaryl Complexes. <i>Organometallics</i> , <b>2003</b> , 22, 5268-5273	3.8	14
38	Conversion of a Metallacyclobutene to Cobalt-Allene Complexes. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 1100-1101	16.4	13
37	Fluoride induced isomerization of cobalt diene complexes. <i>Tetrahedron Letters</i> , <b>1997</b> , 38, 5241-5244	2	12
36	Formal Vinylidene Ligand Insertion into a Metal Halide Bond. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 8861-8862	16.4	12
35	Synthesis and Structural Characterization of a Diiridium $\mu$ -Acyl Complex. <i>Organometallics</i> , <b>1995</b> , 14, 2102-2105	3.8	12
34	Conversion of an $\eta$ -5-C5H5 complex into a cyclopentadienylidene ketene complex. <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 2919-2920	16.4	12
33	Nitroso Compounds Serve as Precursors to Late-Metal $\eta$ (N,O)-Hydroxylamido Complexes. <i>Organometallics</i> , <b>2009</b> , 28, 394-396	3.8	11
32	A high-yield conversion of trans-carbonylchlorobis(triphenylphosphine)rhodium to chlorotris(triphenylphosphine) rhodium. <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 1866-1867	5.1	11

31	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> , <b>1992</b> , 428, 99-105	2.3	10
30	Synthesis and structural characterization of bimetallic $\mu$ -malonyl complexes. <i>Journal of the American Chemical Society</i> , <b>1990</b> , 112, 7585-7598	16.4	10
29	Nucleophilic cleavage of the $sp^3$ carbon-oxygen bond in alkoxycarbene complexes: conversion of 2-oxacyclopentylidene ligands to pyridinium-substituted acyl ligands. <i>Organometallics</i> , <b>1988</b> , 7, 2060-2062	2.8	10
28	Structural Characterization of $(C_5H_5)Co(PPh_3)(\eta$ -alkyne) and $(C_5H_5)Co(\eta$ -alkyne) Complexes of Highly Polarized Alkynes. <i>Organometallics</i> , <b>2013</b> , 32, 5473-5480	3.8	9
27	Ring-strain effects on the oxidation potential of enedynes and enediyne complexes. <i>Organic and Biomolecular Chemistry</i> , <b>2003</b> , 1, 763-6	3.9	9
26	Synthesis and characterization of a novel bimetallic $\mu$ -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> , <b>1989</b> , 111, 7633-7634	16.4	9
25	Bimetallic $\mu$ -malonyl compounds. Synthesis, characterization, and reactivity of $(\eta^5-C_5Me_5)Re(NO)(PPh_3)$ -cyclo $[(\mu$ - $\eta^1$ , $\eta^2$ -COCH $_2$ CO)M(CO) $_4$ ] (M = Re, Mn). <i>Organometallics</i> , <b>1987</b> , 6, 1987-1989	3.8	9
24	Addition of Dissimilar Carbenes across an Unsymmetrically Substituted Alkyne: Regio- and Stereoselective Synthesis of Trisubstituted 1,3-Dienes. <i>Organometallics</i> , <b>2011</b> , 30, 369-371	3.8	8
23	Transition-Metal Catalysis of Triene $\pi$ -Electrocyclization: The $\pi$ -Complexation Strategy Realized. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 17958-17965	16.4	7
22	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> , <b>2010</b> , 364, 220-225	2.7	7
21	Envelope-Flip Dynamics in $CpCo$ (Diene) Complexes: an ab Initio Quantum Mechanical Study. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 10126-10131	2.8	7
20	Photoactivated Transition-Metal Triggers for Ambient Temperature Enediyne and Dienyne Cyclization: Ruthenium- $\beta$ -Naphthalene Complexes. <i>Organometallics</i> , <b>2017</b> , 36, 3967-3973	3.8	6
19	Electrochemistry Studies of a Metallacyclobutene Complex: Synthesis of a Furan Product by Oxidation of a Cobaltacyclobutene. <i>Organometallics</i> , <b>1998</b> , 17, 1007-1009	3.8	6
18	Low-valent Organorhenium Compounds <b>1995</b> , 167-229		5
17	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> , <b>1988</b> , 110, 4448-4450	16.4	5
16	Protonation of Cobalt $\pi$ -Allene Constitutional Isomers: Highly Selective Formation of Cobalt $\pi$ -Allyl and Oxacobaltacyclopentadiene Complexes. <i>Organometallics</i> , <b>2010</b> , 29, 6161-6164	3.8	4
15	Iridium(III) $\pi$ -Vinylidene chemistry: Conversion of an iridacyclopentadiene-chlorido complex and terminal alkynes to iridacyclopentadiene $\pi$ -vinyl complexes. <i>Inorganica Chimica Acta</i> , <b>2008</b> , 361, 3033-3041	2.7	4
14	Thermodynamic control of stereochemistry in alkylation of chiral transition-metal $\beta$ -oxoacyl compounds: enolization without epimerization. <i>Organometallics</i> , <b>1988</b> , 7, 2422-2424	3.8	4

13	Stereoselective Formation of $\eta^5$ -Arene Ruthenium(II) Complexes via Metal-Triggered Bergman and Hopf Cycloaromatizations. <i>Organometallics</i> , <b>2017</b> , 36, 4256-4267	3.8	3
12	Structure and dynamics in unsymmetrically substituted five-coordinate iridacyclopentadiene complexes. <i>Journal of Physical Organic Chemistry</i> , <b>2015</b> , 28, 199-202	2.1	3
11	Reactivity studies on bimetallic $\eta^5$ malonyl complexes: cleavage and alkylation chemistry of the malonyl ligand. <i>Journal of Organometallic Chemistry</i> , <b>1993</b> , 455, 143-156	2.3	3
10	Stereospecific Oxidative Demetallation of Highly Functionalized CpCo(1,3-Diene) Complexes: An Experimental and Computational Study. <i>Synlett</i> , <b>2015</b> , 26, 2243-2246	2.2	2
9	Synthesis of the cobalt-alkyne complex $(\eta^5\text{-C}_5\text{H}_5)(\text{PPh}_3)\text{Co}\{\eta^1\text{-}(\text{Me}_3\text{Si})\text{CC}(\text{CO}_2\text{Et})\}$ and structural characterization of trimethylsilyl substituted cobaltacyclopentadiene complexes derived therefrom. <i>Journal of Organometallic Chemistry</i> , <b>2014</b> , 749, 100-105	2.3	2
8	A photochemical metallocene route to anionic enediynes: synthesis, solid-state structures, and ab initio computations on cyclopentadienidoenediynes. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 11030-2	16.4	2
7	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> , <b>2009</b> , 20, 261-265	3	2
6	Conversion of a metallaenolate complex to a bimetallic $\eta^2$ ketene complex: molecular structure of $(\eta^5\text{-C}_5\text{Me}_5)(\text{NO})(\text{PPh}_3)\text{Re}[\eta^2\text{-COCH}_2\text{-C}_1\text{:C}_2]\text{Re}(\text{CO})_4(\text{PPh}_3)$ . <i>Polyhedron</i> , <b>1993</b> , 12, 527-532	2.7	2
5	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> , <b>1989</b> , 45, 1626-1628		2
4	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> , <b>2019</b> , 84, 13992-14004	4.2	0
3	Triple carbon-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> , <b>2019</b> , 157, 406-409	2.7	0
2	Transition-Metal Catalysis of Triene $\eta^6$ Electrocyclization: The $\eta^6$ Complexation Strategy Realized. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 18114-18121	3.6	
1	Metal-Alkyne and Metallacyclobutene Reactivity toward a Diazoacetamide: Conversion to Highly Functionalized 1,3-Diene Complexes and Oxametallacyclopentadienes. <i>Organometallics</i> , <b>2019</b> , 38, 863-869	3.8	