

# Karen I Goldberg

## List of Publications by Year in descending order

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71  
papers

6,624  
citations

101543

36  
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79698

73  
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76  
all docs

76  
docs citations

76  
times ranked

7020  
citing authors

#	ARTICLE	IF	CITATIONS
1	NMR Chemical Shifts of Trace Impurities: Common Laboratory Solvents, Organics, and Gases in Deuterated Solvents Relevant to the Organometallic Chemist. <i>Organometallics</i> , 2010, 29, 2176-2179.	2.3	3,142
2	Reactions of Late Transition Metal Complexes with Molecular Oxygen. <i>Accounts of Chemical Research</i> , 2012, 45, 899-910.	15.6	178
3	Insertion of Molecular Oxygen into a Palladium(II) Hydride Bond. <i>Journal of the American Chemical Society</i> , 2006, 128, 2508-2509.	13.7	167
4	Energetics and Mechanisms of Carbon-Carbon and Carbon-Iodide Reductive Elimination from a Pt(IV) Center. <i>Journal of the American Chemical Society</i> , 1995, 117, 6889-6896.	13.7	159
5	Large-Scale Selective Functionalization of Alkanes. <i>Accounts of Chemical Research</i> , 2017, 50, 620-626.	15.6	121
6	Direct Observation of C <sup>α</sup> -O Reductive Elimination from Pt(IV). <i>Journal of the American Chemical Society</i> , 1999, 121, 252-253.	13.7	115
7	Insertion of Dioxygen into a Platinum <sup>IV</sup> Hydride Bond to Form a Novel Dialkylhydroperoxo Pt(IV) Complex. <i>Journal of the American Chemical Society</i> , 1999, 121, 11900-11901.	13.7	114
8	Investigations of Iridium-Mediated Reversible C <sup>α</sup> -H Bond Cleavage: Characterization of a 16-Electron Iridium(III) Methyl Hydride Complex. <i>Journal of the American Chemical Society</i> , 2009, 131, 8603-8613.	13.7	111
9	C <sup>α</sup> -H Bond Activation by Rhodium(I) Phenoxide and Acetate Complexes: Mechanism of H <sup>α</sup> -D Exchange between Arenes and Water. <i>Organometallics</i> , 2008, 27, 1454-1463.	2.3	108
10	Competitive Carbon-Carbon Reductive Elimination and Carbon-Iodide Bond Formation from a Pt(IV) Complex. <i>Journal of the American Chemical Society</i> , 1994, 116, 1573-1574.	13.7	103
11	Alkyl Carbon <sup>α</sup> -Nitrogen Reductive Elimination from Platinum(IV) <sup>α</sup> -Sulfonamide Complexes. <i>Journal of the American Chemical Society</i> , 2007, 129, 10382-10393.	13.7	102
12	Reductive Elimination of Ethane from Five-Coordinate Platinum(IV) Alkyl Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 8496-8498.	4.0	102
13	Insertion of Molecular Oxygen into a Palladium(II) Methyl Bond: A Radical Chain Mechanism Involving Palladium(III) Intermediates. <i>Journal of the American Chemical Society</i> , 2009, 131, 15802-15814.	13.7	102
14	Reductive Elimination and Dissociative I <sup>2</sup> -Hydride Abstraction from Pt(IV) Hydroxide and Methoxide Complexes. <i>Organometallics</i> , 2009, 28, 277-288.	2.3	86
15	Reactions of Pd and Pt Complexes with Molecular Oxygen. <i>Chemistry - A European Journal</i> , 2014, 20, 14556-14568.	3.3	86
16	Stereoselective Decarbonylation of Methanol to Form a Stable Iridium(III)trans-Dihydride Complex. <i>Organometallics</i> , 2006, 25, 3007-3011.	2.3	85
17	Mechanism of Direct Molecular Oxygen Insertion in a Palladium(II) <sup>α</sup> -Hydride Bond. <i>Inorganic Chemistry</i> , 2006, 45, 9631-9633.	4.0	81
18	Insertion of Dioxygen into a Platinum(II) <sup>α</sup> -Methyl Bond To Form a Platinum(II) Methylperoxo Complex. <i>Organometallics</i> , 2009, 28, 953-955.	2.3	76

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19	Acid-Assisted Hydrogenation of CO <sub>2</sub> to Methanol in a Homogeneous Catalytic Cascade System. ACS Catalysis, 2019, 9, 9317-9326.	11.2	69
20	Hydrogenolysis of Palladium(II) Hydroxide and Methoxide Pincer Complexes. Journal of the American Chemical Society, 2009, 131, 1346-1347.	13.7	64
21	Hydrogenolysis of Palladium(II) Hydroxide, Phenoxide, and Alkoxide Complexes. Journal of the American Chemical Society, 2011, 133, 17713-17726.	13.7	64
22	Computational Study of Reductive Elimination Reactions to Form C-H Bonds from Platinum(II) and Platinum(IV) Centers with Strongly Coordinating Trimethylphosphine Ligands. Organometallics, 2001, 20, 2669-2678.	2.3	62
23	Alkane Dehydrogenation by C-H Activation at Iridium(III). Organometallics, 2013, 32, 1579-1582.	2.3	61
24	Metal-Ligand Cooperativity in O <sub>2</sub> Activation: Observation of a Pt-O-O-C-Peroxo Intermediate. Organometallics, 2010, 29, 4749-4751.	2.3	54
25	The Importance of Steric Factors in Iridium Pincer Complexes. Organometallics, 2015, 34, 753-762.	2.3	54
26	The Key Role of the Hemiaminal Intermediate in the Iron-Catalyzed Deaminative Hydrogenation of Amides. ACS Catalysis, 2018, 8, 8751-8762.	11.2	53
27	Partial Deoxygenation of Glycerol Catalyzed by Iridium Pincer Complexes. ACS Catalysis, 2013, 3, 2391-2396.	11.2	52
28	Five-Coordinate Platinum(IV) Complexes. Topics in Organometallic Chemistry, 2011, , 1-27.	0.7	50
29	Iridium, Rhodium, and Ruthenium Catalysts for the Aldehyde-Water Shift Reaction. ACS Catalysis, 2014, 4, 3034-3038.	11.2	50
30	Autoxidation of Platinum(IV) Hydrocarbyl Hydride Complexes To Form Platinum(IV) Hydrocarbyl Hydroperoxide Complexes. Inorganic Chemistry, 2009, 48, 1356-1369.	4.0	49
31	Syntheses and Characterization of Palladium Complexes with a Hemilabile PCO-Pincer Ligand. Organometallics, 2011, 30, 1627-1636.	2.3	46
32	The gem-Dialkyl Effect as a Test for Preliminary Diphosphine Chelate Opening in a Reductive Elimination Reaction. Organometallics, 2005, 24, 4624-4628.	2.3	43
33	Pyrazole-Based PCN Pincer Complexes of Palladium(II): Mono- and Dinuclear Hydroxide Complexes and Ligand Rollover C-H Activation. Organometallics, 2015, 34, 3998-4010.	2.3	42
34	Base-Free Iridium-Catalyzed Hydrogenation of Esters and Lactones. ACS Catalysis, 2016, 6, 3113-3117.	11.2	42
35	Hydrogen Addition to (pincer)Ir <sup>I</sup> (CO) Complexes: The Importance of Steric and Electronic Factors. Organometallics, 2016, 35, 3546-3556.	2.3	38
36	$\beta$ -Hydride Elimination and C-H Activation by an Iridium Acetate Complex, Catalyzed by Lewis Acids. Alkane Dehydrogenation Cocatalyzed by Lewis Acids and [2,6-Bis(4,4-dimethyloxazolonyl)-3,5-dimethylphenyl]iridium. Journal of the American Chemical Society, 2017, 139, 6338-6350.	13.7	38

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37	Electrophilic Iridium(III) Pincer Complexes on Sulfated Zirconia for Hydrocarbon Activation and Functionalization. <i>Journal of the American Chemical Society</i> , 2019, 141, 6325-6337.	13.7	38
38	Reactions of iridium hydride pincer complexes with dioxygen: new dioxygen complexes and reversible O <sub>2</sub> binding. <i>Chemical Communications</i> , 2008, , 4195.	4.1	37
39	Reactions of Five-Coordinate Platinum(IV) Complexes with Molecular Oxygen. <i>Organometallics</i> , 2013, 32, 4752-4758.	2.3	37
40	Regeneration of an Iridium(III) Complex Active for Alkane Dehydrogenation Using Molecular Oxygen. <i>Organometallics</i> , 2014, 33, 1337-1340.	2.3	37
41	Partial Deoxygenation of 1,2-Propanediol Catalyzed by Iridium Pincer Complexes. <i>ACS Catalysis</i> , 2012, 2, 1285-1289.	11.2	36
42	Understanding the Effect of Ancillary Ligands on Concerted Metalation-Deprotonation by ( <sup>dm</sup> Phebox)Ir(OAc) <sub>2</sub> (H <sub>2</sub> O) Complexes: A DFT Study. <i>Organometallics</i> , 2014, 33, 6413-6419.	2.3	33
43	Methylplatinum(II) and Molecular Oxygen: Oxidation to Methylplatinum(IV) in Competition with Methyl Group Transfer To Form Dimethylplatinum(IV). <i>Organometallics</i> , 2014, 33, 3227-3230.	2.3	30
44	Reaction of a Palladium(II) Complex Chelated by a Tridentate PNCLigand with Water to Produce a [(PN)Pd( <sup>1/4</sup> -OH)] <sub>2</sub> +Dimer: A Rare Observation of a Well-Defined Hydrolysis of a Pd(II) Aryl Compound. <i>Organometallics</i> , 2001, 20, 2545-2551.	2.3	29
45	C-H Bond Activation by Cationic Iridium(III) NHC Complexes: A Combined Experimental and Computational Study. <i>Organometallics</i> , 2012, 31, 1879-1887.	2.3	29
46	High Catalytic Efficiency Combined with High Selectivity for the Aldehyde-Water Shift Reaction using ( <i>p</i> -cymene)Ruthenium Precatalysts. <i>ACS Catalysis</i> , 2016, 6, 6302-6305.	11.2	24
47	Synthesis, Characterization, and Reactivity of Arene-Stabilized Rhodium Complexes. <i>Organometallics</i> , 2011, 30, 2105-2116.	2.3	22
48	Photolysis of Pincer-Ligated Pd <sup>II</sup> -Me Complexes in the Presence of Molecular Oxygen. <i>Organometallics</i> , 2017, 36, 1213-1216.	2.3	22
49	Detection of an Iridium-Dihydrogen Complex: A Proposed Intermediate in Ionic Hydrogenation. <i>Journal of the American Chemical Society</i> , 2017, 139, 12638-12646.	13.7	21
50	Arene Activation at Iridium Facilitates C-O Bond Cleavage of Aryl Ethers. <i>Organometallics</i> , 2014, 33, 1245-1252.	2.3	19
51	<sup>6</sup> -Tetramethylfulvene and <sup>3</sup> -Benzene Complexes of Iridium. <i>Organometallics</i> , 2012, 31, 8459-8462.	2.3	18
52	A Metal-Free, Photocatalytic Method for Aerobic Alkane Iodination. <i>Journal of the American Chemical Society</i> , 2021, 143, 19262-19267.	13.7	17
53	Direct Formation of Carbon(sp <sup>3</sup> )-Heteroatom Bonds from Rh <sup>III</sup> To Produce Methyl Iodide, Thioethers, and Alkylamines. <i>Journal of the American Chemical Society</i> , 2017, 139, 7725-7728.	13.7	16
54	Experimental and Computational Investigation of the Aerobic Oxidation of a Late Transition Metal-Hydride. <i>Journal of the American Chemical Society</i> , 2019, 141, 10830-10843.	13.7	14

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55	Dinuclear Iridium Complexes Containing Cp* and Carbonyl Ligands: Synthesis, Structure, and Reactivity. <i>Organometallics</i> , 2009, 28, 3546-3551.	2.3	13
56	Insertion of Molecular Oxygen into the Metal-Methyl Bonds of Platinum(II) and Palladium(II) 1,3-Bis(2-pyridylimino)isoindolate Complexes. <i>Organometallics</i> , 2018, 37, 3644-3648.	2.3	13
57	Metal/Ligand Proton Tautomerism Facilitates Dinuclear H <sub>2</sub> Reductive Elimination. <i>Journal of the American Chemical Society</i> , 2020, 142, 21439-21449.	13.7	11
58	(Hexamethylbenzene)Ru catalysts for the Aldehyde-Water Shift reaction. <i>Green Chemistry</i> , 2021, 23, 1609-1615.	9.0	11
59	Structural studies of N-2-(6-picolyl)-N <sup>ε</sup> -tolylthioureas. <i>Journal of Chemical Crystallography</i> , 2002, 32, 17-25.	1.1	10
60	Synthesis and Characterization of Iridium(I) and Iridium(III) Complexes Containing Dialkylbiphenylphosphines. <i>Organometallics</i> , 2013, 32, 4016-4019.	2.3	7
61	Structural studies of N-2-(3-picolyl)- and N-2-(4-picolyl)-N <sup>ε</sup> -tolylthioureas. <i>Journal of Chemical Crystallography</i> , 2002, 32, 431-438.	1.1	6
62	Hydrogenolysis of Dinuclear PCN R Ligated Pd II Hydroxides and Their Mononuclear Pd II Hydroxide Analogues. <i>Chemistry - A European Journal</i> , 2019, 25, 9920-9929.	3.3	5
63	Preparation and Reactivity of Bimetallic (pincer)Ir Complexes. <i>Organometallics</i> , 2020, 39, 3323-3334.	2.3	5
64	Mechanisms of Reactions Related to Selective Alkane Oxidation by Pt Complexes. <i>ACS Symposium Series</i> , 2004, , 283-302.	0.5	4
65	The Effect of the cis-donor in pincer ligands on hydrogenolysis of Pd-OH: A DFT study. <i>Journal of Organometallic Chemistry</i> , 2017, 845, 165-170.	1.8	4
66	Synthesis and Reactivity of Pt(II) Methyl Complexes Supported by Pyrazolate Pincer Ligands. <i>Organometallics</i> , 2020, 39, 1230-1237.	2.3	4
67	The underappreciated influence of ancillary halide on metal-ligand proton tautomerism. <i>Chemical Science</i> , 2022, 13, 7837-7845.	7.4	4
68	A Convenient One-Pot Synthesis of Di- <i>n</i> -butylphosphinic Chloride. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2008, 183, 2534-2540.	1.6	3
69	Lowering the Barrier to C-H Activation at Ir <sup>III</sup> through Pincer Ligand Design. <i>Organometallics</i> , 2021, 40, 1296-1302.	2.3	3
70	Mono- and Dinuclear Binding Modes of the 2,5-Bis(1-pyridyl)pyrrolate Ligand in Platinum(II) Complexes. <i>Organometallics</i> , 2021, 40, 1806-1810.	2.3	1
71	DESIGNING NEW HOMOGENEOUS TRANSITION METAL CATALYSTS FOR AEROBIC OXIDATIONS. , 2018, ,		0