Elon A Ison

List of Publications by Year
in descending order

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46 papers	1,420 citations	361413 20 h-index	330143 37 g-index
49 all docs	49 docs citations	49 times ranked	1527 citing authors

#	Article	IF	Citations
1	Hydrogen Production from Hydrolytic Oxidation of Organosilanes Using a Cationic Oxorhenium Catalyst. Journal of the American Chemical Society, 2005, 127, 11938-11939.	13.7	165
2	Cp*IrIII-Catalyzed Oxidative Coupling of Benzoic Acids with Alkynes. ACS Catalysis, 2013, 3, 2421-2429.	11.2	125
3	Mechanism for Reduction Catalysis by Metal Oxo:â€‰ Hydrosilation of Organic Carbonyl Groups Catalyzed by a Rhenium(V) Oxo Complex. Journal of the American Chemical Society, 2005, 127, 15374-15375.	13.7	113
4	Catalysis by cationic oxorhenium(v): hydrolysis and alcoholysis of organic silanes. Dalton Transactions, 2009, , 2850.	3.3	82
5	Mechanistic Investigations of the Iridium(III)-Catalyzed Aerobic Oxidation of Primary and Secondary Alcohols. Journal of the American Chemical Society, 2008, 130, 14462-14464.	13.7	74
6	Mechanism of MTO-Catalyzed Deoxydehydration of Diols to Alkenes Using Sacrificial Alcohols. Organometallics, 2013, 32, 3210-3219.	2.3	69
7	Synthesis of Cationic Oxorhenium Salen Complexes via Î¼-Oxo Abstraction and Their Activity in Catalytic Reductions. Inorganic Chemistry, 2006, 45, 2385-2387.	4.0	54
8	Câ€“H Bond Functionalization of Benzoic Acid: Catalytic Synthesis of 2-Hydroxy-6H-benzo[c]chromen-6-ones Using (Cp*IrCl₂)₂. Organometallics, 2011, 30, 4572-4577.	2.3	52
9	The Electronic Nature of Terminal Oxo Ligands in Transition-Metal Complexes: Ambiphilic Reactivity of Oxorhenium Species. Journal of the American Chemical Society, 2013, 135, 9433-9441.	13.7	46
10	Oxyfunctionalization with Cp*Ir^{III}(NHC)(Me)(Cl) with O₂: Identification of a Rare Bimetallic Ir^{IV} Î¼-Oxo Intermediate. Journal of the American Chemical Society, 2015, 137, 3574-3584.	13.7	44
11	Effect of Solvent and Ancillary Ligands on the Catalytic H/D Exchange Reactivity of Cp*Ir^{III}(L) Complexes. ACS Catalysis, 2013, 3, 2304-2310.	11.2	42
12	Transition-Metal Oxos as the Lewis Basic Component of Frustrated Lewis Pairs. Journal of the American Chemical Society, 2016, 138, 4832-4842.	13.7	42
13	Synthesis of Cationic Rhenium(VII) Oxo Imido Complexes and Their Tunability Towards Oxygen Atom Transfer. Journal of the American Chemical Society, 2007, 129, 1167-1178.	13.7	38
14	Effect of Ancillary Ligands and Solvents on H/D Exchange Reactions Catalyzed by Cp*Ir Complexes. Organometallics, 2010, 29, 2857-2867.	2.3	38
15	Role of Low-Valent Rhenium Species in Catalytic Hydrosilylation Reactions with Oxorhenium Catalysts. Organometallics, 2012, 31, 5994-5997.	2.3	30
16	Synthesis and Reactivity of Molybdenum Imido Diamido Metallacyclopentenes and Metallacyclopentadienes and the Mechanism of Ethylene Exchange with Metallacyclopentane Complexes. Organometallics, 2006, 25, 1557-1564.	2.3	28
17	Mechanism for the Activation of Carbon Monoxide via Oxorhenium Complexes. Journal of the American Chemical Society, 2011, 133, 13288-13291.	13.7	28
18	Synthesis of Well-Defined Copper N-Heterocyclic Carbene Complexes and Their Use as Catalysts for a â€œClick Reactionâ€• A Multistep Experiment That Emphasizes the Role of Catalysis in Green Chemistry. Journal of Chemical Education, 2012, 89, 1575-1577.	2.3	28

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19	Synthesis of Oxorhenium(V) Complexes with Diamido Amine Ancillary Ligands and Their Role in Oxygen Atom Transfer Catalysis. Inorganic Chemistry, 2009, 48, 11058-11066.	4.0	23
20	Synthesis and characterization of oxorhenium(v) diamido pyridine complexes that catalyze oxygen atom transfer reactions. Dalton Transactions, 2011, 40, 11815.	3.3	21
21	Synthesis of Oxorhenium Acetyl and Benzoyl Complexes Incorporating Diamidopyridine Ligands: Implications for the Mechanism of CO Insertion. Organometallics, 2012, 31, 4295-4301.	2.3	20
22	Computational Investigation of the Mechanism for the Activation of CO by Oxorhenium Complexes. Organometallics, 2012, 31, 4055-4062.	2.3	19
23	Tuning Catalytic Activity in the Hydrogenation of Unactivated Olefins with Transition-Metal Oxos as the Lewis Base Component of Frustrated Lewis Pairs. ACS Catalysis, 2017, 7, 1170-1180.	11.2	19
24	Dramatic Increase in the Rate of Olefin Insertion by Coordination of Lewis Acids to the Oxo Ligand in Oxorhenium(V) Hydrides. Organometallics, 2017, 36, 2042-2051.	2.3	18
25	Observation of Inductive Effects That Cause a Change in the Rate-Determining Step for the Conversion of Rhenium Azides to Imido Complexes. Inorganic Chemistry, 2011, 50, 10505-10514.	4.0	16
26	Oxyfunctionalization with Cp*IrIII(NHC)(Me)L Complexes. Organometallics, 2014, 33, 5081-5084.	2.3	16
27	High-valent nitridorhenium(<scp>v</scp>) complexes containing PNP ligands: implications of ligand flexibility. Dalton Transactions, 2018, 47, 758-768.	3.3	16
28	Submonomer synthesis of peptoids containing trans-inducing N-imino- and N-alkylamino-glycines. Chemical Science, 2021, 12, 8401-8410.	7.4	16
29	Synthesis and Reactivity of Oxorhenium(V) Methyl, Benzyl, and Phenyl Complexes with CO: Implications for a Unique Mechanism for Migratory Insertion. Organometallics, 2015, 34, 3152-3158.	2.3	15
30	Mechanism for the Reaction of CO with Oxorhenium Hydrides: Migratory Insertion of CO into Rhenium Hydride and Formyl Bonds leads to Migration from Rhenium to the Oxo Ligand. Organometallics, 2016, 35, 3060-3068.	2.3	13
31	Nondirected Câ€“H Activation of Arenes with Cp*Ir(III) Acetate Complexes: An Experimental and Computational Study. Organometallics, 2016, 35, 2435-2445.	2.3	13
32	Alkylaluminum-Induced Diamide Transfer from Group 6 Imido Diamido Complexes. Organometallics, 2004, 23, 929-931.	2.3	12
33	Synthesis, Structure, and Dynamics of Molybdenum Imido Alkyne Complexes. Organometallics, 2004, 23, 4070-4076.	2.3	11
34	Reductive Carbonylation of Oxorhenium Hydrides Induced by Lewis Acids. Organometallics, 2016, 35, 2822-2829.	2.3	9
35	Energy Decomposition Analysis of Lewis Acid/Base Adducts and Frustrated Lewis Pairs: The Use of E_{Orb}/E_{Steric} Ratios as a Reaction Parameter. Inorganic Chemistry, 2021, 60, 13797-13805.	4.0	9
36	Synthesis and Reactivity of Molybdenum(IV) Complexes with Alkyl and Aryl Isocyanides. Organometallics, 2005, 24, 6310-6318.	2.3	8

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37	Effect of the Ancillary Ligand on the Mechanism for CO Migratory Insertion in High-Valent Oxorhenium Complexes. Organometallics, 2016, 35, 3530-3537.	2.3	8
38	Cationic rhenium(<scp>iii</scp>) complexes: synthesis, characterization, and reactivity for hydrosilylation of aldehydes. Dalton Transactions, 2017, 46, 4609-4616.	3.3	7
39	Reâ€“Silane complexes as frustrated lewis pairs for catalytic hydrosilylation. Dalton Transactions, 2020, 49, 11403-11411.	3.3	7
40	Identification of key functionalization species in the Cp*Ir(<scp>iii</scp>)-catalyzed-ortho halogenation of benzamides. Dalton Transactions, 2020, 49, 16166-16174.	3.3	6
41	ortho-Câ€“H Activation of Thiobenzoic Acid: Synthesis, Characterization, and Reactivity of Iridium Thiobenzoate Complexes. Organometallics, 2015, 34, 275-279.	2.3	5
42	Synthesis and Reactivity of Re(III) and Re(V) Fischer Carbenes. Organometallics, 2020, 39, 388-396.	2.3	5
43	Oxorhenium Complexes for Catalytic Hydrosilylation and Hydrolytic Hydrogen Production: A Multiweek Advanced Laboratory Experiment for Undergraduate Students. Journal of Chemical Education, 2017, 94, 790-794.	2.3	4
44	Are all charge-transfer parameters created equally? A study of functional dependence and excited-state charge-transfer quantification across two dye families. Physical Chemistry Chemical Physics, 2021, 23, 20583-20597.	2.8	3
45	Synthesis and reactivity of nitridorhenium complexes incorporating the mercaptoethylsulfide (SSS) ligand. Dalton Transactions, 2020, 49, 6127-6134.	3.3	2
46	Group 7 and 8 Complexes With Metal Ligand Multiple Bonds in Frustrated Lewis Pairs. , 2021, , 28-44.		0