

Jack R Norton

List of Publications by Year in descending order

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76
papers

3,265
citations

147801

31
h-index

155660

55
g-index

81
all docs

81
docs citations

81
times ranked

2741
citing authors

#	ARTICLE	IF	CITATIONS
1	Aqua, Alcohol, and Acetonitrile Adducts of Tris(perfluorophenyl)borane: A Evaluation of Brønsted Acidity and Ligand Lability with Experimental and Computational Methods. <i>Journal of the American Chemical Society</i> , 2000, 122, 10581-10590.	13.7	235
2	Kinetic and thermodynamic acidity of hydrido transition-metal complexes. 1. Periodic trends in Group VI complexes and substituent effects in osmium complexes. <i>Journal of the American Chemical Society</i> , 1982, 104, 1255-1263.	13.7	138
3	Stoichiometric, Catalytic, and Enantioface-Selective Hydrogenation of CN Bonds by an Ionic Mechanism. <i>Journal of the American Chemical Society</i> , 2001, 123, 1778-1779.	13.7	132
4	Anti-Markovnikov alcohols via epoxide hydrogenation through cooperative catalysis. <i>Science</i> , 2019, 364, 764-767.	12.6	130
5	Hydrogen-Atom Transfer Reactions of Transition-Metal Hydrides. <i>Israel Journal of Chemistry</i> , 1991, 31, 55-66.	2.3	125
6	Evidence for Formation of a Co-H Bond from $(H_2O)_2Co(dmgBF_2)_2$ under H_2 : Application to Radical Cyclizations. <i>Journal of the American Chemical Society</i> , 2012, 134, 14662-14665.	13.7	107
7	The Reaction of Cobaloximes with Hydrogen: Products and Thermodynamics. <i>Journal of the American Chemical Society</i> , 2014, 136, 17362-17365.	13.7	107
8	Radical Isomerization and Cycloisomerization Initiated by H-Transfer. <i>Journal of the American Chemical Society</i> , 2016, 138, 7698-7704.	13.7	103
9	Catalyzing the Hydrodefluorination of CF_3 -Substituted Alkenes by $PhSiH_3$. H-Transfer from a Nickel Hydride. <i>Journal of the American Chemical Society</i> , 2020, 142, 4793-4799.	13.7	100
10	Tin-Free and Catalytic Radical Cyclizations. <i>Journal of the American Chemical Society</i> , 2007, 129, 770-771.	13.7	95
11	Kinetics of Hydrogen Atom Transfer from $(\eta^5-C_5H_5)Cr(CO)_3H$ to Various Olefins: Influence of Olefin Structure. <i>Journal of the American Chemical Society</i> , 2007, 129, 234-240.	13.7	92
12	Kinetics and Mechanism of Alkyl Transfer from Organocobalt(III) to Nickel(I): Implications for the Synthesis of Acetyl Coenzyme A by CO Dehydrogenase. <i>Journal of the American Chemical Society</i> , 1997, 119, 1648-1655.	13.7	91
13	Relative rates of hydrogen atom ($H\cdot$) transfer from transition-metal hydrides to trityl radicals. <i>Journal of the American Chemical Society</i> , 1991, 113, 4888-4895.	13.7	82
14	Generation and Characterization of the Tris(pentafluorophenyl)borane Radical Anion. <i>Organometallics</i> , 2001, 20, 3818-3820.	2.3	77
15	Zirconium-Catalyzed Carboalumination of \pm -Olefins and Chain Growth of Aluminum Alkyls: Kinetics and Mechanism. <i>Journal of the American Chemical Society</i> , 2011, 133, 5263-5273.	13.7	72
16	Dinuclear elimination as a route to unusual bridging carbonyls and acetyls in heterobimetallic complexes. <i>Journal of the American Chemical Society</i> , 1982, 104, 6360-6368.	13.7	69
17	Kinetics and Thermodynamics of H^+ / H^- Transfer from a Rhodium(III) Hydride. <i>Journal of the American Chemical Society</i> , 2014, 136, 5938-5948.	13.7	68
18	Unusually Weak Metal-Hydrogen Bonds in $HV(CO)_4(P^+P)$ and Their Effectiveness as H^+ Donors. <i>Journal of the American Chemical Society</i> , 2008, 130, 4250-4252.	13.7	66

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19	Hydride Transfer by Hydrido Transition-Metal Complexes. Ionic Hydrogenation of Aldehydes and Ketones, and Structural Characterization of an Alcohol Complex. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 1233-1235.	4.4	65
20	Transition-Metal Hydride Radical Cations. <i>Chemical Reviews</i> , 2016, 116, 8427-8462.	47.7	64
21	A bridging acetyl group from the reaction of a dinuclear methyl complex with carbon monoxide. <i>Journal of the American Chemical Society</i> , 1981, 103, 209-210.	13.7	61
22	Direct Generation of Oxygen-Stabilized Radicals by H α C Transfer from Transition Metal Hydrides. <i>Journal of the American Chemical Society</i> , 2015, 137, 1036-1039.	13.7	59
23	Synthesis, Electrochemistry, and Reactivity of New Iridium(III) and Rhodium(III) Hydrides. <i>Organometallics</i> , 2012, 31, 5058-5064.	2.3	58
24	Kinetics and Thermodynamics of H α C Transfer from (η -5-C ₅ R ₅)Cr(CO) ₃ H (R = Ph, Me, H) to Methyl Methacrylate and Styrene. <i>Journal of the American Chemical Society</i> , 2003, 125, 10093-10102.	13.7	57
25	Initiating radical cyclizations by H transfer from transition metals. <i>Tetrahedron</i> , 2008, 64, 11822-11830.	1.9	57
26	Electron Transfer from Hexameric Copper Hydrides. <i>Journal of the American Chemical Society</i> , 2013, 135, 17262-17265.	13.7	55
27	Effectiveness in Catalyzing Carboalumination Can Be Inferred from the Rate of Dissociation of M/Al Dimers. <i>Organometallics</i> , 2004, 23, 5105-5107.	2.3	49
28	Effect of Chelate Ring Size on the Rate of Hydride Transfer from CpRu(P α P)H (P α P = Chelating) <i>J. Organomet. Chem.</i> 1995, 485, 1-10.	2.3	45
29	Synthesis and solution properties of the heterobimetallic complexes Cp ₂ ZrMe(μ -OC)M(CO) ₂ Cp (M =) <i>J. Organomet. Chem.</i> 1978, 110, 1-14.	0.784314	10

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37	Ruthenium-Catalyzed Ionic Hydrogenation of Aziridinium Cations. <i>Organometallics</i> , 2005, 24, 6358-6364.	2.3	25
38	Kinetics and Mechanism of the Hydrogenation of the $\text{CpCr}(\text{CO})_3 \text{sup} \text{â€} / [\text{CpCr}(\text{CO})_3]_2$ Equilibrium to $\text{CpCr}(\text{CO})_3 \text{H}$. <i>Organometallics</i> , 2014, 33, 2496-2502.	2.3	25
39	TEMPO-Mediated Catalysis of the Sterically Hindered Hydrogen Atom Transfer Reaction between $(\text{C}_5\text{Ph}_5)_2\text{Cr}(\text{CO})_3 \text{H}$ and a Trityl Radical. <i>Journal of the American Chemical Society</i> , 2019, 141, 1882-1886.	13.7	25
40	Trapping of Acetylene by a Zirconocene Terminal Imido Complex. <i>Organometallics</i> , 2000, 19, 2365-2372.	2.3	24
41	Catalysis by $\text{C}_5\text{Ph}_5\text{Cr}(\text{CO})_3$ of Chain Transfer during the Free Radical Polymerization of Methyl Methacrylate. <i>Macromolecules</i> , 2000, 33, 2790-2792.	4.8	24
42	Reaction of $\text{Cp}^*(\text{Cl})\text{M}(\text{Diene})$ (M = Ti, Hf) with Isonitriles. <i>Journal of the American Chemical Society</i> , 2015, 137, 10152-10155.	13.7	24
43	Electron Exchange Involving a Sulfur-Stabilized Ruthenium Radical Cation. <i>Inorganic Chemistry</i> , 2007, 46, 5805-5812.	4.0	23
44	$[\text{Os}_2(\text{CO})_8(\eta^4\text{-}1,1\text{-propene})]$ and Related Complexes as Vibrational Models for Alkenes Chemisorbed on Single-Crystal Metal Surfaces. <i>Journal of the American Chemical Society</i> , 1999, 121, 529-534.	13.7	22
45	$\text{H}\dot{\text{A}}$ -Transfer-Initiated Synthesis of β -Lactams: Interpretation of Cycloisomerization and Hydrogenation Ratios. <i>ACS Catalysis</i> , 2019, 9, 10294-10298.	11.2	21
46	Rhenium Oxo Complexes of a Chelating Diyne Ligand. Synthesis and Study of the Kinetics of Protonation. <i>Inorganic Chemistry</i> , 2001, 40, 2942-2952.	4.0	20
47	Mechanism of the Reaction of Alkynes with a $\text{â€} \text{Constrained Geometry} \text{â€} \text{Zirconaaziridine}$. PMe_3 Dissociates More Rapidly from the Constrained Geometry Complex than from its Cp_2 Analogue. <i>Organometallics</i> , 2009, 28, 493-498.	2.3	20
48	Dihydrogen Activation by Cobaloximes with Various Axial Ligands. <i>Inorganic Chemistry</i> , 2014, 53, 10743-10747.	4.0	19
49	Evidence for a Ring-Opening Preequilibrium in the Exchange Reactions of Diosmacyclobutanes. <i>Journal of the American Chemical Society</i> , 1997, 119, 5628-5637.	13.7	17
50	Effect of Steric Congestion on the Activity of Chromium and Molybdenum Metalloradicals as Chain Transfer Catalysts during MMA Polymerization. <i>Macromolecules</i> , 2004, 37, 241-243.	4.8	17
51	Enantioselective methylalumination of E -olefins. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 4768-4773.	1.8	15
52	Reaction of the Lewis Acids $\text{B}(\text{C}_6\text{F}_5)_3$ and $(\text{AlMe}_2\text{Cl})_2$ with Azazirconacycles. <i>Organometallics</i> , 1999, 18, 3827-3834.	2.3	14
53	Reaction of $\text{Cp}^*_2\text{Zr}(\text{2,3-dimethylbutadiene})$ with Isonitriles and CO. <i>Organometallics</i> , 2016, 35, 3163-3169.	2.3	14
54	Factors Affecting the Apparent Chain Transfer Rate Constants of Chromium Metalloradicals: Mechanistic Implications. <i>Macromolecules</i> , 2006, 39, 8229-8235.	4.8	13

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55	Catalytic Cycloisomerization onto a Carbonyl Oxygen. <i>Organic Letters</i> , 2020, 22, 6171-6176.	4.6	13
56	Synthesis and properties of carboxy-substituted half-sandwich ruthenium complexes with chelating bisphosphine ligands ($\eta^5\text{-C}_5\text{H}_4\text{CO}_2\text{H}$)Ru($\eta^1\text{-L}$)X (X=I, H). <i>Journal of Organometallic Chemistry</i> , 2008, 693, 1382-1388.	1.8	12
57	Cationic Copper Hydride Clusters Arising from Oxidation of (Ph) ₃ P) ₆ Cu ₆ H ₆ . <i>Journal of the American Chemical Society</i> , 2017, 139, 7685-7688.	13.7	11
58	Thermodynamics of H ⁺ /H [•] /H [•] /H [•] /e ⁻ Transfer from [CpV(CO) ₃ H] ⁺ : Comparisons to the Isoelectronic CpCr(CO) ₃ H. <i>Organometallics</i> , 2019, 38, 4319-4328.	2.3	10
59	Chain-transfer catalysis by vanadium complexes during methyl methacrylate polymerization. <i>Inorganica Chimica Acta</i> , 2008, 361, 3089-3093.	2.4	9
60	Kinetics of Diosmacyclobutane Exchange Reactions. <i>Journal of the American Chemical Society</i> , 1997, 119, 5618-5627.	13.7	8
61	Facile reaction of carboxylic acids with isonitriles in toluene. <i>Tetrahedron Letters</i> , 2011, 52, 2933-2934.	1.4	8
62	Effect of Double-Bond Substituents on the Rate of Cyclization of $\dot{\text{I}}\pm$ -Carbomethoxyhex-5-enyl Radicals. <i>Journal of Organic Chemistry</i> , 2014, 79, 1938-1946.	3.2	8
63	Insertion of Isonitriles into the M [•] C Bonds of Group 4 Dialkyl Complexes. <i>Journal of the American Chemical Society</i> , 2018, 140, 8980-8989.	13.7	8
64	Ethylene Ligand Structures of Os(CO) ₄ (C ₂ H ₄) and Os ₂ (CO) ₈ (C ₂ H ₄) Determined by ¹ H NMR in Liquid Crystal Solvents. <i>Inorganic Chemistry</i> , 1998, 37, 1720-1728.	4.0	7
65	On the reaction of carboxylic acids and isonitriles with conventional heating. <i>Tetrahedron</i> , 2012, 68, 10236-10240.	1.9	7
66	Insertion of Isonitriles into the Zr [•] CH ₃ Bond of Cp* ₂ Zr(CH ₃) ₂ and Electrophilic Cleavage of the Remaining Methyl Group. <i>Organometallics</i> , 2018, 37, 4424-4430.	2.3	7
67	Generation of $\dot{\text{I}}\pm$ Boryl Radicals by H ⁺ Transfer and their Use in Cycloisomerizations. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22678-22682.	13.8	7
68	The synthesis of diverse terpene architectures from phenols. , 2022, 1, 313-321.		7
69	A vibrational study of the diosmacyclobutene complex Os ₂ (CO) ₈ ($\eta^4\text{-I}_2\text{-I}_2\text{-C}_2\text{H}_2$): The use of organometallic complexes as vibrational models for chemisorbed ethyne. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1070-1076.	2.8	6
70	Measurement of the Rate Constant for H [•] Abstraction from Methylisobutyryl Radical by (C ₅ Ph ₅)Cr(CO) ₃ . <i>Macromolecules</i> , 2006, 39, 8236-8240.	4.8	6
71	Synthesis and Resolution of Chiral Ruthenium Complexes Containing the 1-Me-3-PhCp Ligand. <i>Organometallics</i> , 2016, 35, 39-46.	2.3	5
72	Hydrogen atom transfer rates from Tp-containing metal-hydrides to trityl radicals. <i>Canadian Journal of Chemistry</i> , 2021, 99, 216-220.	1.1	5

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73	Approach to equilibrium after dilution of a monomer/dimer mixture. Measurement of the rate constant for dissociation of trityl dimer by stopped-flow methods. <i>International Journal of Chemical Kinetics</i> , 1992, 24, 895-902.	1.6	3
74	Isomerization of Aziridines to Allyl Amines via Titanium and Chromium Cooperative Catalysis. <i>Journal of Organic Chemistry</i> , 2022, 87, 4991-4997.	3.2	3
75	Synthesis, Characterization, and Catalytic Activity of Bimetallic Ti/Cr Complexes. <i>Organometallics</i> , 2020, 39, 4592-4598.	2.3	2
76	Generation of α -Boryl Radicals by H-Transfer and their Use in Cycloisomerizations. <i>Angewandte Chemie</i> , 2021, 133, 22860-22864.	2.0	1