

Dmitry Gusev

List of Publications by Year in descending order

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docs citations

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times ranked

3803
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic and Steric Parameters of 76 N-Heterocyclic Carbenes in Ni(CO) ₃ (NHC). <i>Organometallics</i> , 2009, 28, 6458-6461.	2.3	335
2	Osmium and Ruthenium Catalysts for Dehydrogenation of Alcohols. <i>Organometallics</i> , 2011, 30, 3479-3482.	2.3	265
3	From Esters to Alcohols and Back with Ruthenium and Osmium Catalysts. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2772-2775.	13.8	264
4	An Acidity Scale for Phosphorus-Containing Compounds Including Metal Hydrides and Dihydrogen Complexes in THF:Â Toward the Unification of Acidity Scales. <i>Journal of the American Chemical Society</i> , 2000, 122, 9155-9171.	13.7	245
5	Replacing Phosphorus with Sulfur for the Efficient Hydrogenation of Esters. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2538-2542.	13.8	197
6	Acceptorless Dehydrogenative Coupling of Ethanol and Hydrogenation of Esters and Imines. <i>Organometallics</i> , 2012, 31, 5239-5242.	2.3	184
7	A Family of Active Iridium Catalysts for Transfer Hydrogenation of Ketones. <i>Organometallics</i> , 2006, 25, 4113-4117.	2.3	182
8	Donor Properties of a Series of Two-Electron Ligands. <i>Organometallics</i> , 2009, 28, 763-770.	2.3	170
9	Chemoselective Hydrogenation of Carbonyl Compounds and Acceptorless Dehydrogenative Coupling of Alcohols. <i>Journal of the American Chemical Society</i> , 2015, 137, 3743-3746.	13.7	129
10	Double C α -H Activation on Osmium and Ruthenium Centers:Â Carbene vs Olefin Products. <i>Organometallics</i> , 2002, 21, 2601-2603.	2.3	117
11	Reaction of molecular hydrogen (H ₂) with chlorohydroiridium phosphines IrHClP ₂ (P = PPr-iso ₃ or Tj ETQq1 1 0.784314 rgBT /Overlock <i>Journal of the American Chemical Society</i> , 1993, 115, 7300-7312.	13.7	116
12	Agostic Bonding in Pincer Complexes of Ruthenium. <i>Organometallics</i> , 2000, 19, 1734-1739.	2.3	108
13	Assessing the Accuracy of M06-L Organometallic Thermochemistry. <i>Organometallics</i> , 2013, 32, 4239-4243.	2.3	106
14	Structure and H ₂ -Loss Energies of OsHX(H ₂)(CO)L ₂ Complexes (L = P(t-Bu) ₂ Me, P(i-Pr) ₃ ; X = Cl, I, H):Â Attempted Correlation of 1J(H α -D), T1min, and I ¹³ C δ . <i>Inorganic Chemistry</i> , 1996, 35, 6775-6783.	4.0	90
15	PNP pincer osmium polyhydrides for catalytic dehydrogenation of primary alcohols. <i>Dalton Transactions</i> , 2011, 40, 8941.	3.3	90
16	Carbene vs Olefin Products of C α -H Activation on Ruthenium via Competing I ¹ - and I ² -H Elimination. <i>Journal of the American Chemical Society</i> , 2006, 128, 14388-14396.	13.7	88
17	<i><i>N,N</i>-Diamidoketenimines via Coupling of Isocyanides to an N-Heterocyclic Carbene. <i>Journal of Organic Chemistry</i>, 2010, 75, 2763-2766.</i>	3.2	88
18	Synthesis, Structural Diversity, Dynamics, and Acidity of the M(II) and M(IV) Complexes [MH ₃ (PR ₃) ₄] ⁺ (M) Tj ETQq0 0 0 rgBT /Overlock	13.7	85

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19	Hydrogen binding to and fluxional behavior of Ir(H)2X(P-tert-Bu2R)2 (X = Cl, Br, I; R = Me, Ph). <i>Journal of the American Chemical Society</i> , 1994, 116, 208-214.	13.7	83
20	Synthesis and Characterization of RuH2(H2)2(PiPr3)2 and Related Chemistry. Evidence for a Bis(dihydrogen) Structure. <i>Organometallics</i> , 2000, 19, 1652-1660.	2.3	83
21	Preparation of a Dihydrogen Complex of Cobalt. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1873-1876.	13.8	79
22	Distinct structures for ruthenium and osmium hydrido halides: Os(H)3X(PiPr3)2 (X = Cl, Br, I) are nonoctahedral classical trihydrides with exchange coupling. <i>Journal of the American Chemical Society</i> , 1994, 116, 2685-2686.	13.7	78
23	The First Ru(η -3-PCP) Complexes of the Electron-Rich Pincer Ligand 1,3-Bis((dicyclohexylphosphino)methyl)benzene: Structure and Mechanism in Transfer Hydrogenation Catalysis. <i>Organometallics</i> , 2004, 23, 4047-4054.	2.3	78
24	Dehydrogenative Coupling of Ethanol and Ester Hydrogenation Catalyzed by Pincer-Type YNP Complexes. <i>ACS Catalysis</i> , 2016, 6, 6967-6981.	11.2	75
25	First homoleptic MIC and heteroleptic NHC-MIC coordination cages from 1,3,5-triphenylbenzene-bridged tris-MIC and tris-NHC ligands. <i>Chemical Communications</i> , 2015, 51, 13914-13917.	4.1	70
26	Polyhydrido(silylene)osmium and Silyl(dinitrogen)ruthenium Products Through Redistribution of Phenylsilane with Osmium and Ruthenium Pincer Complexes. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 216-219.	13.8	66
27	Hydride, Borohydride, and Dinitrogen Pincer Complexes of Ruthenium. <i>Organometallics</i> , 2000, 19, 3429-3434.	2.3	64
28	Ferrocenyl-Imidazolylidene Ligand for Redox-Switchable Gold-Based Catalysis. A Detailed Study on the Redox-Switching Abilities of the Ligand. <i>Organometallics</i> , 2016, 35, 2747-2758.	2.3	64
29	Hydride Fluxionality in Transition Metal Complexes: An Approach to the Understanding of Mechanistic Features and Structural Diversities. <i>Chemische Berichte</i> , 1996, 129, 1143-1155.	0.2	63
30	Structure and solution behavior of a series of classical and nonclassical rhenium hydride complexes. <i>Inorganic Chemistry</i> , 1993, 32, 3628-3636.	4.0	57
31	Hemilabile Pincer-Type Hydride Complexes of Iridium. <i>Organometallics</i> , 2007, 26, 5224-5229.	2.3	57
32	Homogeneous catalytic hydrogenation of long-chain esters by an osmium pincer complex and its potential application in the direct conversion of triglycerides into fatty alcohols. <i>Green Chemistry</i> , 2012, 14, 1178.	9.0	57
33	New Polyhydride Anions and Proton-Hydride Hydrogen Bonding in Their Ion Pairs. X-ray Crystal Structure Determinations of Q[mer-Os(H)3(CO)(PiPr3)2], Q = [K(18-crown-6)] and Q = [K(1-aza-18-crown-6)]. <i>Journal of the American Chemical Society</i> , 1998, 120, 13138-13147.	13.7	56
34	Reactions of carbonylchlorohydrido-bis(triisopropylphosphine)ruthenium with molecular hydrogen in solution. New molecular hydrogen complexes of ruthenium: RuH(H2)Cl(CO)[P(iso-Pr)3]2 and Ru(H)2(H2)(CO)[P(iso-Pr)3]2. <i>Inorganic Chemistry</i> , 1992, 31, 1-2.	4.0	55
35	Synthesis and NMR T1 relaxation study of rhenium and manganese hydride complexes. <i>Inorganic Chemistry</i> , 1993, 32, 3270-3276.	4.0	54
36	Rethinking the Dehydrogenative Amide Synthesis. <i>ACS Catalysis</i> , 2017, 7, 6656-6662.	11.2	53

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37	Effect of Weak Interactions on the H \cdots H Distance in Stretched Dihydrogen Complexes. <i>Journal of the American Chemical Society</i> , 2004, 126, 14249-14257.	13.7	51
38	Synthesis, Structure, and Reactivity of Iridium NHC Pincer Complexes. <i>Organometallics</i> , 2011, 30, 1429-1437.	2.3	51
39	Structural and Dynamic Properties of OsH ₂ X ₂ L ₂ (X = Cl, Br, I; L = PiPr ₃) Complexes: Interconversion between Remarkable Non-Octahedral Isomers. <i>Journal of the American Chemical Society</i> , 1995, 117, 281-292.	13.7	50
40	Heterolytic splitting of H \cdots X bonds at a cationic (PNP)Pd center. <i>Dalton Transactions</i> , 2010, 39, 3195.	3.3	49
41	Cyclometalated Osmium Complexes Containing a Tridentate PCP Ligand. <i>Organometallics</i> , 2001, 20, 1001-1007.	2.3	48
42	Rethinking the Claisen \rightarrow Tishchenko Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6228-6231.	13.8	48
43	Carbanionic Friedel \rightarrow Crafts Equivalents. Regioselective Directed <i>ortho</i> and Remote Metalation \rightarrow C \rightarrow N Cross Coupling Routes to Acridones and Dibenzo[<i>b,f</i>]azepinones. <i>Journal of Organic Chemistry</i> , 2008, 73, 9710-9719.	3.2	46
44	Hydridic Rhenium Nitrosyl Complexes with Pincer-Type PNP Ligands. <i>Organometallics</i> , 2007, 26, 3509-3515.	2.3	45
45	A Shape \rightarrow Adaptable Organometallic Supramolecular Coordination Cage for the Encapsulation of Fullerenes. <i>Chemistry - A European Journal</i> , 2018, 24, 14802-14807.	3.3	45
46	Gold(I) Metallo \rightarrow Tweezers for the Recognition of Functionalized Polycyclic Aromatic Hydrocarbons by Combined π \rightarrow π Stacking and H \cdots Bonding. <i>Chemistry - A European Journal</i> , 2017, 23, 14439-14444.	3.3	44
47	ESI-MS Insights into Acceptorless Dehydrogenative Coupling of Alcohols. <i>ACS Catalysis</i> , 2016, 6, 3301-3309.	11.2	43
48	Alkylidene and Vinylidene \rightarrow Pincer \rightarrow Complexes from Reactions of Alkynes with Ruthenium and Osmium Hydrides. <i>Organometallics</i> , 2002, 21, 1095-1100.	2.3	42
49	Organizing Chain Structures by Use of Proton \rightarrow Hydride Bonding. The Single-Crystal X-ray Diffraction Structures of [K(Q)][Os(H) ₅ (PiPr ₃) ₂] and [K(Q)][Ir(H) ₄ (PiPr ₃) ₂], Q = 18-Crown-6 and 1,10-Diaza-18-crown-6. <i>Journal of the American Chemical Society</i> , 1998, 120, 11826-11827.	13.7	41
50	Intermolecular Proton \rightarrow Hydride Bonding in Ion Pairs: Synthesis and Structural Properties of [K(Q)][MH ₅ (PiPr ₃) ₂] (M = Os, Ru; Q = 18-crown-6, 1-aza-18-crown-6, 1,10-diaza-18-crown-6). <i>Organometallics</i> , 2000, 19, 834-843.	2.3	41
51	Experimental and Computational Study of Pincer Complexes of Ruthenium with Py, CO, and N ₂ Ligands. <i>Organometallics</i> , 2002, 21, 5091-5099.	2.3	41
52	Calculated Hydride and Fluoride Affinities of a Series of Carbenium and Silylium Cations in the Gas Phase and in C ₆ H ₅ Cl Solution. <i>Chemistry - A European Journal</i> , 2011, 17, 634-640.	3.3	41
53	Characterization of PtH ₃ (PtBu ₃) ₂ ⁺ as the First Dihydrogen Complex of d ₈ , Pt(II). <i>Journal of the American Chemical Society</i> , 1994, 116, 7409-7410.	13.7	39
54	The Tolman electronic parameter (TEP) and the metal \rightarrow metal electronic communication in ditopic NHC complexes. <i>Dalton Transactions</i> , 2013, 42, 7359.	3.3	39

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55	Revised Mechanisms of the Catalytic Alcohol Dehydrogenation and Ester Reduction with the Milstein PNN Complex of Ruthenium. <i>Organometallics</i> , 2020, 39, 258-270.	2.3	39
56	Substituents Effects in POP Pincer Complexes of Ruthenium. <i>Organometallics</i> , 2005, 24, 2492-2501.	2.3	38
57	Palladium and rhodium complexes of a chiral pincer ligand derived from 1,3-trans disubstituted cyclohexane. <i>Inorganica Chimica Acta</i> , 2006, 359, 2806-2811.	2.4	37
58	² H MAS NMR of strongly dipolar coupled deuterium pairs in transition metal dihydrides: extracting dipolar coupling and quadrupolar tensor orientations from the lineshape of spinning sidebands. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 935-941.	2.8	35
59	NMR spectra and the products of interaction of iridium monohydrides IrHCl ₂ L ₂ (L ¹ →P(CH(CH ₃) ₂) ₃ and Tj ETQq1 1,0.784314 rgBT / Dv	2.4	34
60	Cationic, Neutral, and Anionic Hydrides of Iridium with PSiP Pincers. <i>Inorganic Chemistry</i> , 2017, 56, 7190-7199.	4.0	33
61	Study of the frozen water-poly(vinyl alcohol) system by ² H and ¹³ C NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 1990, 28, 651-655.	1.9	31
62	Is RuH ₄ (PPh ₃) ₃ in solution indeed a non-classical hydride?. <i>Inorganica Chimica Acta</i> , 1991, 179, 195-201.	2.4	30
63	An unusual example of hydrogen molecule (H ₂) coordination by a d ⁴ metal center: reactions between OsH ₂ Cl ₂ (PPr-iso ₃) ₂ and H ₂ . <i>Journal of the American Chemical Society</i> , 1993, 115, 5831-5832.	13.7	30
64	[{Fe(PEt ₃) ₃ } ₂ (μ ₄ -H) ₆ B][BPh ₄]: A Complex Containing Octahedral Hypercoordinate Boron. <i>Inorganic Chemistry</i> , 2001, 40, 6334-6337.	4.0	29
65	Study of cryostructuration of polymer systems. <i>Polymer</i> , 2000, 41, 35-47.	3.8	25
66	Ge(0) Compound Stabilized by a Diimino-Carbene Ligand: Synthesis and Ambiphilic Reactivity. <i>Journal of the American Chemical Society</i> , 2020, 142, 5852-5861.	13.7	25
67	Revised Mechanisms for Aldehyde Disproportionation and the Related Reactions of the Shvo Catalyst. <i>ACS Catalysis</i> , 2018, 8, 6851-6861.	11.2	24
68	Triple C≡H activation of 1,5-bis(di-tert-butylphosphino)-2-(S)-dimethylaminopentane on ruthenium gives a chiral carbene complex. <i>Chemical Communications</i> , 2002, , 2432-2433.	4.1	22
69	Short spin-lattice relaxation times of hydride ligands. Proton-metal dipole-dipole interactions. <i>Inorganic Chemistry</i> , 1991, 30, 3116-3118.	4.0	20
70	The Milstein Bipyridyl PNN Pincer Complex of Ruthenium Becomes a Noyori-Type Catalyst under Reducing Conditions. <i>Journal of the American Chemical Society</i> , 2020, 142, 19510-19522.	13.7	20
71	Ion Mobility Mass Spectrometry Uncovers Guest-Induced Distortions in a Supramolecular Organometallic Metallosquare. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15412-15417.	13.8	20
72	Probing the motion of the ² -dideuterium ligand by solution and solid-state ² H NMR spectroscopy. <i>Canadian Journal of Chemistry</i> , 1999, 77, 1899-1910.	1.1	19

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73	Chiral Hydride and Dihydrogen Pincer-Type Complexes of Osmium. <i>Organometallics</i> , 2007, 26, 5661-5666.	2.3	18
74	Study of cryostructurization of polymer systems. 1H- and 2H-NMR studies of the formation of crosslinked polyacrylamide cryogels. <i>European Polymer Journal</i> , 1993, 29, 49-55.	5.4	17
75	Dihydrogen addition to $(\text{PiPr}_3)_2\text{OsXnH}_4$. <i>Journal of Organometallic Chemistry</i> , 1997, 536-537, 139-147.	1.8	17
76	Imidazolidines as hydride sources for the formation of late transition-metal monohydrides. <i>Chemical Science</i> , 2012, 3, 1300.	7.4	17
77	Title is missing!. <i>Angewandte Chemie</i> , 2003, 115, 226-229.	2.0	16
78	The NMR study of reactions of dihydrogen with the monohydrides RhHCl_2L_2 ($\text{L}=\text{P}(\text{CH}(\text{CH}_3)_2)_3$ and TiEtQqO) <small>rgBT / Overlock 10 TF 5</small>	2.4	15
79	Intramolecular Hydrogen Site Exchange in an $\text{HRu}(\text{SiHPh}_2)$ Moiety. <i>Inorganic Chemistry</i> , 1996, 35, 6772-6774.	4.0	13
80	Self-Assembly of Di- $\text{CN}=\text{CH}$ -Heterocyclic Carbene-Gold-Adorned Corannulenes on C_{60} . <i>Chemistry - A European Journal</i> , 2017, 23, 10644-10651.	3.3	13
81	Low Temperature Multinuclear NMR Study of the Mechanism of Protonation of $\text{W}(\text{H})_2\text{Cl}_2(\text{PMe}_2\text{Ph})_4$. <i>Inorganic Chemistry</i> , 1995, 34, 2894-2901.	4.0	12
82	What are the primary products of reactions between anionic hydrides and HCCPh ?. <i>New Journal of Chemistry</i> , 1999, 23, 1-3.	2.8	10
83	Structure and Dynamics of a Compressed Dihydride Complex of Osmium. <i>Organometallics</i> , 2006, 25, 3481-3485.	2.3	9
84	Rethinking the Claisen-Tishchenko Reaction. <i>Angewandte Chemie</i> , 2017, 129, 6324-6327.	2.0	9
85	Chiral complexes of copper(II), containing polyether podands and a quaternary ammonium group, as potential receptors and carriers of L^\pm -amino acid anions. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, , 1873-1877.	1.1	6
86	Ion Mobility Mass Spectrometry Uncovers Guest-Induced Distortions in a Supramolecular Organometallic Metallosquare. <i>Angewandte Chemie</i> , 2021, 133, 15540-15545.	2.0	6
87	Unexpected Influence of Substituents on the Binding Affinities of Polycyclic Aromatic Hydrocarbons with a Tetra-Au(I) Metallorrectangle. <i>Organometallics</i> , 2020, 39, 4078-4084.	2.3	6
88	Reaction of amins of conjugated β -dimethylamino aldehydes with indandione. <i>Bulletin of the Academy of Sciences of the USSR Division of Chemical Science</i> , 1986, 35, 1446-1452.	0.0	3
89	The Structure of $[\text{ReH}_2(\text{H}_2)(\text{CO})(\text{PMe}_3)_3]^+$ Revisited. <i>Organometallics</i> , 2003, 22, 5148-5151.	2.3	1