

Karsten Krogh-Jespersen

List of Publications by Year in descending order

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430874

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#	ARTICLE	IF	CITATIONS
1	Origin of Regioselectivity in the Dehydrogenation of Alkanes by Pincer-Iridium Complexes: A Combined Experimental and Computational Study. <i>ACS Catalysis</i> , 2021, 11, 12038-12051.	11.2	7
2	Alkane Dehydrogenation Catalyzed by a Fluorinated Phebox Iridium Complex. <i>ACS Catalysis</i> , 2021, 11, 14194-14209.	11.2	8
3	Formation of Enamines via Catalytic Dehydrogenation by Pincer-Iridium Complexes. <i>Journal of Organic Chemistry</i> , 2020, 85, 3020-3028.	3.2	12
4	Catalytic Alkane Transfer Dehydrogenation by PSP-Pincer-Ligated Ruthenium. Deactivation of an Extremely Reactive Fragment by Formation of Allyl Hydride Complexes. <i>ACS Catalysis</i> , 2019, 9, 4072-4083.	11.2	29
5	Polar molecules catalyze CO insertion into metal-alkyl bonds through the displacement of an agostic C-H bond. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3419-3424.	7.1	5
6	Selective Dehydrogenative Coupling of Ethylene to Butadiene via an Iridacyclopentane Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 2260-2264.	13.7	16
7	Extremely reactive carbenes: electrophiles and nucleophiles. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3555.	1.9	10
8	Complexes and Negative Activation Energies in Arylhalocarbene/Alkene Additions: Activation Parameter Dependence on Alkane Solvent Chain Length. <i>Journal of Organic Chemistry</i> , 2017, 82, 4216-4225.	3.2	4
9	$\hat{\text{I}}^2$ -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. <i>Journal of the American Chemical Society</i> , 2017, 139, 6338-6350.	13.7	38
10	Catalytic Dehydrogenative C-C Coupling by a Pincer-Ligated Iridium Complex. <i>Journal of the American Chemical Society</i> , 2017, 139, 8977-8989.	13.7	35
11	Single and Double C-H Activation of Biphenyl or Phenanthrene. An Example of C-H Addition to Ir(III) More Facile than Addition to Ir(I). <i>Organometallics</i> , 2016, 35, 1613-1623.	2.3	16
12	Two Equilibria of (N-Methyl-3-pyridinium)chlorocarbene, a Cationic Carbene. <i>Journal of Physical Chemistry A</i> , 2016, 120, 699-708.	2.5	1
13	Evaluating the Thermodynamics of Electrocatalytic N_2 Reduction in Acetonitrile. <i>ACS Energy Letters</i> , 2016, 1, 698-704.	17.4	115
14	Assessment of the Electronic Factors Determining the Thermodynamics of σ -Oxidative Addition of C-H and N-H Bonds to Ir(I) Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 149-163.	13.7	52
15	Experimental and computational study of alkane dehydrogenation catalyzed by a carbazolidate-based rhodium PNP pincer complex. <i>Chemical Science</i> , 2016, 7, 2579-2586.	7.4	31
16	Dehydrogenation of <i>n</i> -Alkanes by Solid-Phase Molecular Pincer-Iridium Catalysts. High Yields of $\hat{\text{I}}^{\pm}$ -Olefin Product. <i>Journal of the American Chemical Society</i> , 2015, 137, 9894-9911.	13.7	74
17	Activation Parameters for Additions to Alkenes of Arylchlorocarbenes with Enhanced Electrophilicity. <i>Journal of Organic Chemistry</i> , 2015, 80, 7590-7593.	3.2	10
18	Copper, Indium, Tin, and Lead Complexes with Fluorinated Selenolate Ligands: Precursors to MSeX. <i>Inorganic Chemistry</i> , 2015, 54, 8896-8904.	4.0	19

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19	Non-covalent interactions of nitrous oxide with aromatic compounds: Spectroscopic and computational evidence for the formation of 1:1 complexes. <i>Journal of Chemical Physics</i> , 2014, 140, 144304.	3.0	10
20	(POP)Rh pincer hydride complexes: unusual reactivity and selectivity in oxidative addition and olefin insertion reactions. <i>Chemical Science</i> , 2013, 4, 3683.	7.4	52
21	Covalent Bonding and the Trans Influence in Lanthanide Compounds. <i>Inorganic Chemistry</i> , 2010, 49, 552-560.	4.0	55
22	Conformational Dependence of Electronic Coupling Across Peptide Bonds: A Ramachandran Map. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20809-20812.	3.1	16
23	Solid-State Changes in Ligand-to-Metal Charge-Transfer Spectra of (NH ₃) ₅ Ru ^{III} (2,4-dihydroxybenzoate) and (NH ₃) ₅ Ru ^{III} (xanthine) Chromophores. <i>Inorganic Chemistry</i> , 2008, 47, 9813-9827.	4.0	6
24	New mechanisms centered on reactive intermediates: Examples from diazine and carbene chemistry. <i>Pure and Applied Chemistry</i> , 2007, 79, 993-1001.	1.9	16
25	DFT Calculations on the Mechanism of (PCP)Ir-Catalyzed Acceptorless Dehydrogenation of Alkanes. <i>ACS Symposium Series</i> , 2004, , 216-233.	0.5	4
26	On the Mechanism of (PCP)Ir-Catalyzed Acceptorless Dehydrogenation of Alkanes: A Combined Computational and Experimental Study. <i>Journal of the American Chemical Society</i> , 2002, 124, 11404-11416.	13.7	115
27	Combined Computational and Experimental Study of Substituent Effects on the Thermodynamics of H ₂ , CO, Arene, and Alkane Addition to Iridium. <i>Journal of the American Chemical Society</i> , 2002, 124, 10797-10809.	13.7	128
28	Alternating Planarity/Nonplanarity in n-Doped Odd-Membered, All- Trans Polyenes: Molecular Structures of NaC _n H _{n+2} (n = 3, 5, 7, and 9). <i>Journal of Molecular Modeling</i> , 2000, 6, 248-256.	1.8	1
29	Addition of C-H Bonds to the Catalytically Active Complex (PCP)Ir (PCP = $\hat{1}$ -3-2,6-(tBu ₂ PCH ₂) ₂ C ₆ H ₃). <i>Journal of the American Chemical Society</i> , 2000, 122, 11017-11018.	13.7	135
30	Transition States for Oxidative Addition to Three-Coordinate Ir(I): H-H, C-H, C-C, and C-F Bond Activation Processes. <i>ACS Symposium Series</i> , 1999, , 151-162.	0.5	10
31	Modulation of Carbenic Reactivity by π -Complexation to Aromatics. <i>Journal of the American Chemical Society</i> , 1998, 120, 1088-1089.	13.7	44
32	Phosphate cleavage by organoiodinane oxyanion analogues of o-iodosobenzoate: experimental and computational studies. <i>Journal of Physical Organic Chemistry</i> , 1997, 10, 27-32.	1.9	12
33	The 1:1 glycine zwitterion-water complex: An ab initio electronic structure study. <i>Journal of Computational Chemistry</i> , 1996, 17, 338-349.	3.3	93
34	Evaluating polarizable potentials on distributed memory parallel computers: Program development and applications. <i>Journal of Computational Chemistry</i> , 1995, 16, 1141-1152.	3.3	10
35	Cyclopropylmethoxycarbene: A kinetic limit on the 1,2-carbon migration. <i>Journal of Physical Organic Chemistry</i> , 1992, 5, 104-107.	1.9	12
36	The Isomers of the Acetylene Derivatives C ₂ Li ₄ : Transferable Structural Units in Hyperlithiated Compounds. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 1602-1603.	4.4	10

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37	Molecular electrostatic potentials and partial atomic charges from correlated wave functions: Applications to the electronic ground and excited states of 3-methylindole. <i>Journal of Computational Chemistry</i> , 1992, 13, 979-989.	3.3	17
38	Die Isomere des Acetylenderivats $C_{20}Li_4$: $\frac{1}{4}$ bertragbare Struktureinheiten in hyperlithiierten Spezies. <i>Angewandte Chemie</i> , 1992, 104, 1678-1680.	2.0	5
39	The nonplanarity of n-doped polyenes and of carbanions with alkali metal counterions. <i>International Journal of Quantum Chemistry</i> , 1988, 34, 51-57.	2.0	4
40	Ab initio all-electron and effective core potential calculations on $CuCl_2$. <i>International Journal of Quantum Chemistry</i> , 1988, 34, 245-255.	2.0	4
41	An Extraordinary Structure and Topomerization Mechanism for ϵ -Diboramethylenecyclopropane. <i>Angewandte Chemie International Edition in English</i> , 1984, 23, 825-826.	4.4	56
42	Diboramethylenecyclopropan, theoretische Studien zur Struktur und zum Mechanismus der Topomerisierung. <i>Angewandte Chemie</i> , 1984, 96, 809-811.	2.0	39
43	Electronic states and barriers to internal rotation in silaallenes. <i>Journal of Computational Chemistry</i> , 1982, 3, 571-579.	3.3	15
44	Carbocations. I. The structures and energies of $C_4H_4^+$ isomers. <i>Journal of Computational Chemistry</i> , 1981, 2, 356-360.	3.3	27