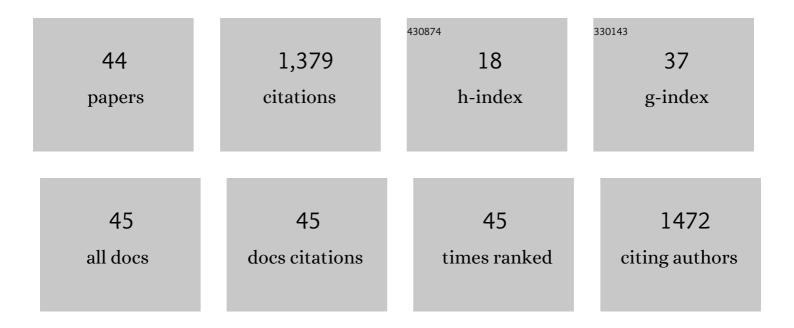
Karsten Krogh-Jespersen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/502981/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Addition of Câ^'H Bonds to the Catalytically Active Complex (PCP)Ir (PCP = η3-2,6-(tBu2PCH2)2C6H3). Journal of the American Chemical Society, 2000, 122, 11017-11018.	13.7	135
2	Combined Computational and Experimental Study of Substituent Effects on the Thermodynamics of H2, CO, Arene, and Alkane Addition to Iridium. Journal of the American Chemical Society, 2002, 124, 10797-10809.	13.7	128
3	On the Mechanism of (PCP)Ir-Catalyzed Acceptorless Dehydrogenation of Alkanes:  A Combined Computational and Experimental Study. Journal of the American Chemical Society, 2002, 124, 11404-11416.	13.7	115
4	Evaluating the Thermodynamics of Electrocatalytic N ₂ Reduction in Acetonitrile. ACS Energy Letters, 2016, 1, 698-704.	17.4	115
5	The 1:1 glycine zwitterion-water complex: Anab initio electronic structure study. Journal of Computational Chemistry, 1996, 17, 338-349.	3.3	93
6	Dehydrogenation of <i>n</i> -Alkanes by Solid-Phase Molecular Pincer-Iridium Catalysts. High Yields of α-Olefin Product. Journal of the American Chemical Society, 2015, 137, 9894-9911.	13.7	74
7	An Extraordinary Structure and Topomerization Mechanism for"Diboramethylenecyclopropaneâ€. Angewandte Chemie International Edition in English, 1984, 23, 825-826.	4.4	56
8	Covalent Bonding and the Trans Influence in Lanthanide Compounds. Inorganic Chemistry, 2010, 49, 552-560.	4.0	55
9	(POP)Rh pincer hydride complexes: unusual reactivity and selectivity in oxidative addition and olefin insertion reactions. Chemical Science, 2013, 4, 3683.	7.4	52
10	Assessment of the Electronic Factors Determining the Thermodynamics of "Oxidative Addition―of C–H and N–H Bonds to Ir(I) Complexes. Journal of the American Chemical Society, 2016, 138, 149-163.	13.7	52
11	Modulation of Carbenic Reactivity by π-Complexation to Aromatics. Journal of the American Chemical Society, 1998, 120, 1088-1089.	13.7	44
12	Diboramethylencyclopropan, theoretische Studien zur Struktur und zum Mechanismus der Topomerisierung. Angewandte Chemie, 1984, 96, 809-811.	2.0	39
13	β-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-dimethyloxazolinyl)-3,5-dimethylphenyl]iridium. Journal of the American Chemical Society, 2017, 139, 6338-6350.	13.7	38
14	Catalytic Dehydrogenative C–C Coupling by a Pincer-Ligated Iridium Complex. Journal of the American Chemical Society, 2017, 139, 8977-8989.	13.7	35
15	Experimental and computational study of alkane dehydrogenation catalyzed by a carbazolide-based rhodium PNP pincer complex. Chemical Science, 2016, 7, 2579-2586.	7.4	31
16	Catalytic Alkane Transfer Dehydrogenation by PSP-Pincer-Ligated Ruthenium. Deactivation of an Extremely Reactive Fragment by Formation of Allyl Hydride Complexes. ACS Catalysis, 2019, 9, 4072-4083.	11.2	29
17	Carbodications. I. The structures and energies of C4H42+ isomers. Journal of Computational Chemistry, 1981, 2, 356-360.	3.3	27
18	Copper, Indium, Tin, and Lead Complexes with Fluorinated Selenolate Ligands: Precursors to MSex. Inorganic Chemistry, 2015, 54, 8896-8904.	4.0	19

#	Article	IF	CITATIONS
19	Molecular electrostatic potentials and partial atomic charges from correlated wave functions: Applications to the electronic ground and excited states of 3-methylindole. Journal of Computational Chemistry, 1992, 13, 979-989.	3.3	17
20	New mechanisms centered on reactive intermediates: Examples from diazirine and carbene chemistry. Pure and Applied Chemistry, 2007, 79, 993-1001.	1.9	16
21	Conformational Dependence of Electronic Coupling Across Peptide Bonds: A Ramachandran Map. Journal of Physical Chemistry C, 2010, 114, 20809-20812.	3.1	16
22	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). Organometallics, 2016, 35, 1613-1623.	2.3	16
23	Selective Dehydrogenative Coupling of Ethylene to Butadiene via an Iridacyclopentane Complex. Journal of the American Chemical Society, 2018, 140, 2260-2264.	13.7	16
24	Electronic states and barriers to internal rotation in silaallenes. Journal of Computational Chemistry, 1982, 3, 571-579.	3.3	15
25	Cyclopropylmethoxycarbene: A kinetic limit on the 1,2-carbon migration. Journal of Physical Organic Chemistry, 1992, 5, 104-107.	1.9	12
26	Phosphate cleavage by organoiodinane oxyanion analogues ofo-iodosobenzoate: experimental and computational studies. Journal of Physical Organic Chemistry, 1997, 10, 27-32.	1.9	12
27	Formation of Enamines via Catalytic Dehydrogenation by Pincer-Iridium Complexes. Journal of Organic Chemistry, 2020, 85, 3020-3028.	3.2	12
28	The Isomers of the Acetylene Derivatives C2Li4: Transferable Structural Units in Hyperlithiated Compounds. Angewandte Chemie International Edition in English, 1992, 31, 1602-1603.	4.4	10
29	Evaluating polarizable potentials on distributed memory parallel computers: Program development and applications. Journal of Computational Chemistry, 1995, 16, 1141-1152.	3.3	10
30	Transition States for Oxidative Addition to Three-Coordinate Ir(I): H-H, C-H, C-C, and C-F Bond Activation Processes. ACS Symposium Series, 1999, , 151-162.	0.5	10
31	Non-covalent interactions of nitrous oxide with aromatic compounds: Spectroscopic and computational evidence for the formation of 1:1 complexes. Journal of Chemical Physics, 2014, 140, 144304.	3.0	10
32	Activation Parameters for Additions to Alkenes of Arylchlorocarbenes with Enhanced Electrophilicity. Journal of Organic Chemistry, 2015, 80, 7590-7593.	3.2	10
33	Extremely reactive carbenes: electrophiles and nucleophiles. Journal of Physical Organic Chemistry, 2017, 30, e3555.	1.9	10
34	Alkane Dehydrogenation Catalyzed by a Fluorinated Phebox Iridium Complex. ACS Catalysis, 2021, 11, 14194-14209.	11.2	8
35	Origin of Regioselectivity in the Dehydrogenation of Alkanes by Pincer–Iridium Complexes: A Combined Experimental and Computational Study. ACS Catalysis, 2021, 11, 12038-12051.	11.2	7
36	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. Inorganic Chemistry, 2008, 47, 9813-9827.	4.0	6

#	Article	IF	CITATIONS
37	Die Isomere des Acetylenderivats C ₂ Li ₄ : übertragbare Struktureinheiten in hyperlithiierten Spezies. Angewandte Chemie, 1992, 104, 1678-1680.	2.0	5
38	Polar molecules catalyze CO insertion into metal-alkyl bonds through the displacement of an agostic C-H bond. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3419-3424.	7.1	5
39	The nonplanarity ofn-doped polyenes and of carbanions with alkali metal counterions. International Journal of Quantum Chemistry, 1988, 34, 51-57.	2.0	4
40	Ab initio all-electron and effective core potential calculations on CuCl2?4. International Journal of Quantum Chemistry, 1988, 34, 245-255.	2.0	4
41	DFT Calculations on the Mechanism of (PCP)Ir-Catalyzed Acceptorless Dehydrogenation of Alkanes. ACS Symposium Series, 2004, , 216-233.	0.5	4
42	Complexes and Negative Activation Energies in Arylhalocarbene/Alkene Additions: Activation Parameter Dependence on Alkane Solvent Chain Length. Journal of Organic Chemistry, 2017, 82, 4216-4225.	3.2	4
43	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). Journal of Molecular Modeling, 2000, 6, 248-256.	1.8	1
44	Two Equilibria of (N-Methyl-3-pyridinium)chlorocarbene, a Cationic Carbene. Journal of Physical Chemistry A, 2016, 120, 699-708.	2.5	1