

# Ken Sakata

## List of Publications by Year in descending order

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61  
papers

2,617  
citations

257450

24  
h-index

189892

50  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2428  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrroloindolone Synthesis via a Cp*Co <sup>III</sup> -Catalyzed Redox-Neutral Directed C-H Alkenylation/Annulation Sequence. <i>Journal of the American Chemical Society</i> , 2014, 136, 5424-5431.	13.7	441
2	Dehydrative Direct C-H Allylation with Allylic Alcohols under [Cp*Co <sup>III</sup> ] Catalysis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9944-9947.	13.8	273
3	Copper-Catalyzed Enantioselective Propargylic Amination of Propargylic Esters with Amines: Copper <sup>I</sup> -Allenylidene Complexes as Key Intermediates. <i>Journal of the American Chemical Society</i> , 2010, 132, 10592-10608.	13.7	198
4	Quantum Chemical Study of B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> -Catalyzed Hydrosilylation of Carbonyl Group. <i>Journal of Organic Chemistry</i> , 2013, 78, 12505-12512.	3.2	135
5	Iridium-Catalyzed [2 + 2] Cycloaddition of $\beta,\gamma$ -Diyne with Nitriles. <i>Journal of the American Chemical Society</i> , 2012, 134, 10515-10531.	13.7	120
6	Visible-Light-Mediated Aromatic Substitution Reactions of Cyanoarenes with 4-Alkyl-4-dihydropyridines through Double Carbon-Carbon Bond Cleavage. <i>ChemCatChem</i> , 2016, 8, 1028-1032.	3.7	109
7	Mechanism and reactivity of catalytic propargylic substitution reactions <i>via</i> allenylidene intermediates: a theoretical perspective. <i>Catalysis Science and Technology</i> , 2018, 8, 12-25.	4.1	99
8	Stereoselective Synthesis of Tetrasubstituted Alkenes via a Cp*Co <sup>III</sup> -Catalyzed C-H Alkenylation/Directing Group Migration Sequence. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7156-7160.	13.8	98
9	Ruthenium-catalysed oxidative conversion of ammonia into dinitrogen. <i>Nature Chemistry</i> , 2019, 11, 702-709.	13.6	75
10	Ruthenium-Catalyzed Reactions of 1-Cyclopropyl-2-propyn-1-ols with Anilines and Water via Allenylidene Intermediates: A Selective Preparation of Tri- and Tetrasubstituted Conjugated Enynes. <i>Journal of the American Chemical Society</i> , 2007, 129, 5175-5179.	13.7	70
11	Ruthenium-Triggered Ring Opening of Ethynylcyclopropanes: [3+2] Cycloaddition with Aldehydes and Aldimines Involving Metal Allenylidene Intermediates. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1758-1762.	13.8	69
12	Ab initio study of molecular structures and excited states in anthocyanidins. <i>Tetrahedron</i> , 2006, 62, 3721-3731.	1.9	66
13	UVA- and Visible-Light-Mediated Generation of Carbon Radicals from Organochlorides Using Nonmetal Photocatalyst. <i>Journal of Organic Chemistry</i> , 2018, 83, 9381-9390.	3.2	57
14	Quantum Chemical Study of Lewis Acid Catalyzed Allylboration of Aldehydes. <i>Journal of the American Chemical Society</i> , 2008, 130, 12519-12526.	13.7	53
15	Ruthenium-Catalyzed Dienyne Formation from Propargylic Alcohols and 1,3-Conjugated Dienes. <i>Organometallics</i> , 2008, 27, 2046-2051.	2.3	40
16	Synthesis and Characterization of Binary-Complex Models of Ureas and 1,3-Dicarbonyl Compounds: Deeper Insights into Reaction Mechanisms Using Snap-Shot Structural Analysis. <i>Journal of Organic Chemistry</i> , 2014, 79, 1805-1817.	3.2	36
17	Iridium-Catalyzed [2+2+2] Cycloaddition of $\beta,\gamma$ -Diyne with Cyanamides. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 3901-3916.	4.3	35
18	Cp*Co <sup>III</sup> -Catalyzed C-H Alkenylation/Annulation Reactions of Indoles with Alkynes: A DFT Study. <i>Journal of Organic Chemistry</i> , 2017, 82, 7379-7387.	3.2	35

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19	A DFT Study on the Reaction Pathways for Carbon-Carbon Bond-Forming Reactions between Propargylic Alcohols and Alkenes or Ketones Catalyzed by Thiolate-Bridged Diruthenium Complexes. <i>Chemistry - an Asian Journal</i> , 2009, 4, 81-88.	3.3	34
20	Synthesis of Phosphabenzenes by an Iron-Catalyzed [2+2+2] Cycloaddition Reaction of Diynes with Phosphaalkynes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7597-7601.	13.8	32
21	Ruthenium-Catalyzed Enantioselective Propargylic Phosphinylation of Propargylic Alcohols with Phosphine Oxides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11231-11236.	13.8	32
22	Application of the regional density functional theory: The chemical potential inequality in the HeH <sup>+</sup> System. <i>International Journal of Quantum Chemistry</i> , 1999, 74, 669-679.	2.0	27
23	Stereoselective Synthesis of Tetrasubstituted Alkenes via a Cp*Co(III)-Catalyzed C-H Alkenylation/Directing Group Migration Sequence. <i>Angewandte Chemie</i> , 2017, 129, 7262-7266.	2.0	26
24	Quantum Chemical Study of Diels-Alder Reactions Catalyzed by Lewis Acid Activated Oxazaborolidines. <i>Journal of Organic Chemistry</i> , 2013, 78, 3095-3103.	3.2	24
25	Quantum Chemical Study of the Reaction of 3-(Trimethylsilyl)cyclohexa-1,4-dienes with B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> . <i>Organometallics</i> , 2015, 34, 236-241.	2.3	22
26	Manganese-Catalyzed Ammonia Oxidation into Dinitrogen under Chemical or Electrochemical Conditions**. <i>ChemPlusChem</i> , 2021, 86, 1511-1516.	2.8	21
27	Thiolate-Bridged Dinuclear Ruthenium and Iron Complexes as Robust and Efficient Catalysts toward Oxidation of Molecular Dihydrogen in Protic Solvents. <i>Journal of the American Chemical Society</i> , 2015, 137, 4173-4182.	13.7	19
28	Electron Reorganization along the Intrinsic Reaction Coordinate in 1,3-Dipolar Cycloaddition. <i>Journal of Physical Chemistry A</i> , 2000, 104, 10001-10008.	2.5	18
29	Origin of High Regio-, Diastereo-, and Enantioselectivities in 1,6-Addition of Azlactones to Dienyl <i>N</i> -Acylpyrroles: A Computational Study. <i>Journal of Organic Chemistry</i> , 2017, 82, 541-548.	3.2	18
30	Ab initio study of the torsional potential for 9-phenylanthracene in the ground and excited states. <i>Chemical Physics Letters</i> , 2003, 371, 164-171.	2.6	17
31	Quantum-Chemical Study of Neutral Lewis Base Catalyzed Allylation of Aldehydes with Allyltrichlorosilanes. <i>Organometallics</i> , 2010, 29, 1004-1011.	2.3	16
32	Copper-Catalyzed [3+2] Cycloaddition Reactions of Isocyanoacetates with Phosphaalkynes to Prepare 1,3-Azaphospholes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1168-1173.	13.8	16
33	Studies toward the Synthesis of Furanocembrane Bipinnatin J: Synthesis of a 2,3,5-Trisubstituted Furfuryl Ether Intermediate. <i>Heterocycles</i> , 2005, 65, 531.	0.7	15
34	Origin of the <i>endo</i> Selectivity in the Diels-Alder Reaction between Cyclopentadiene and Maleic Anhydride. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 4275-4278.	2.4	14
35	Ruthenium-Catalyzed Propargylic Reduction of Propargylic Alcohols with Hantzsch Ester. <i>Organometallics</i> , 2020, 39, 2130-2134.	2.3	12
36	Transient bonds and chemical reactivity of molecules. <i>International Journal of Quantum Chemistry</i> , 1996, 60, 401-408.	2.0	11

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37	Quantum chemical study on low energy reaction path for. Applied Surface Science, 1997, 117-118, 151-157.	6.1	11
38	Quantum Chemical Study of the Oxidation Sites in Hydrogen- and Water-Terminated Si Dimers: Attempt to Understand the Si-Si Back-Bond Oxidation on the Si Surface. Japanese Journal of Applied Physics, 1998, 37, 4962-4973.	1.5	9
39	Quantum-chemical study on the reaction between GeF <sub>4</sub> and Si <sub>2</sub> H <sub>6</sub> . Chemical Physics Letters, 2000, 320, 527-534.	2.6	8
40	Quantum chemical study on aluminum selective CVD reaction mechanism. Applied Surface Science, 1997, 117-118, 465-471.	6.1	7
41	Quantum Chemical Study on the Oxidation of Hydrogen-Terminated Silicon Surface by Oxygen Anions. Japanese Journal of Applied Physics, 1998, 37, 4493-4504.	1.5	7
42	Regioselectivity in the Iridium-Catalyzed [2 + 2 + 2] Cycloaddition of Unsymmetrical <i>endo</i> -Dienes with Nitrile: A DFT Study. Organometallics, 2020, 39, 2091-2101.	2.3	7
43	Roles of Lewis Acid Catalysts in Diels-Alder Reactions between Cyclopentadiene and Methyl Acrylate. ChemistryOpen, 2020, 9, 662-666.	1.9	7
44	Ruthenium-Catalyzed Enantioselective Propargylic Phosphinylation of Propargylic Alcohols with Phosphine Oxides. Angewandte Chemie, 2021, 133, 11331-11336.	2.0	7
45	Ab initio calculation of the torsional potential for 2-alkenylanthracene in the ground and excited states. Chemical Physics Letters, 2001, 344, 185-192.	2.6	6
46	Dicationic Thiolate-Bridged Diruthenium Complexes for Catalytic Oxidation of Molecular Dihydrogen. Organometallics, 2017, 36, 4499-4506.	2.3	6
47	Catalytic Activity of Thiolate-Bridged Diruthenium Complexes Bearing Pendent Ether Moieties in the Oxidation of Molecular Dihydrogen. Chemistry - A European Journal, 2017, 23, 1007-1012.	3.3	6
48	Total Synthesis of (±)-Graminin A Based on Asymmetric Cyclization Carbonylation of Propargyl Acetate. Journal of Organic Chemistry, 2019, 84, 16268-16277.	3.2	6
49	Theoretical study of penetration reaction of fluorine atoms and ions into hydrogen-terminated Si(111) thin film. Thin Solid Films, 2000, 374, 143-149.	1.8	5
50	Quantum chemical mechanism of oxidation of the hydrogen-terminated Si surface by oxygen anion. Applied Surface Science, 2000, 159-160, 392-397.	6.1	5
51	Enantioselectivity in Ruthenium-Catalyzed Propargylic Substitution Reactions of Propargylic Alcohols with Acetone: A DFT Study. Chemistry - an Asian Journal, 2021, 16, 3760-3766.	3.3	5
52	Aromaticity/antiaromaticity in cyclic conjugated hydrocarbons. International Journal of Quantum Chemistry, 2002, 87, 135-144.	2.0	4
53	Ruthenium- and Copper-Catalyzed Propargylic Substitution Reactions of Propargylic Alcohol Derivatives with Hydrazones. Chemistry - A European Journal, 2021, 27, 15650-15659.	3.3	4
54	Copper-Catalyzed [3+2] Cycloaddition Reactions of Isocyanoacetates with Phosphaalkynes to Prepare 1,3-Azaphospholes. Angewandte Chemie, 2019, 131, 1180-1185.	2.0	3

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55	Quantum chemical study of the torsional motions for 9-vinylanthracene. <i>Chemical Physics</i> , 2005, 312, 69-80.	1.9	2
56	Quantum chemical study on p-doping effect of F-terminated silicon surface reaction with silane. <i>Applied Surface Science</i> , 1997, 117-118, 54-60.	6.1	1
57	An attempt to decompose the force constants for some diatomic molecules by the derivatives of the electronic kinetic energy. <i>Theoretical Chemistry Accounts</i> , 2006, 115, 276-280.	1.4	1
58	Force constant decomposition for penta-coordinated $XH_3Cl_2$ ( $X = C, Si, Ge$ ) structures. <i>Journal of Computational Chemistry</i> , 2018, 39, 1544-1550.	3.3	1
59	Visible-Light-Mediated Aromatic Substitution Reactions of Cyanoarenes with 4-Alkyl-1,4-dihydropyridines through Double Carbon-Carbon Bond Cleavage. <i>ChemCatChem</i> , 2016, 8, 1015-1015.	3.7	0
60	Ruthenium- and Copper-Catalyzed Propargylic Substitution Reactions of Propargylic Alcohol Derivatives with Hydrazones. <i>Chemistry - A European Journal</i> , 2021, 27, 15562.	3.3	0
61	Quantum Chemical Studies of Lewis-Acid Catalyzed Organic Chemical Reactions. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2022, 80, 115-125.	0.1	0