

Chul-Ho Jun

List of Publications by Year in descending order

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93
papers

6,769
citations

76196

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60497

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docs citations

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times ranked

5031
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition metal-catalyzed carbon-carbon bond activation. <i>Chemical Society Reviews</i> , 2004, 33, 610-618.	18.7	912
2	Metal-Organic Cooperative Catalysis in C-H and C-C Bond Activation and Its Concurrent Recovery. <i>Accounts of Chemical Research</i> , 2008, 41, 222-234.	7.6	890
3	Metal-Organic Cooperative Catalysis in C-H and C-C Bond Activation. <i>Chemical Reviews</i> , 2017, 117, 8977-9015.	23.0	525
4	Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation. <i>Advanced Materials</i> , 2015, 27, 4775-4780.	11.1	253
5	Chelation-Assisted Intermolecular Hydroacylation: A Direct Synthesis of Ketone from Aldehyde and 1-Alkene. <i>Journal of Organic Chemistry</i> , 1997, 62, 1200-1201.	1.7	239
6	Catalytic Carbon-Carbon Bond Activation of Unstrained Ketone by Soluble Transition-Metal Complex. <i>Journal of the American Chemical Society</i> , 1999, 121, 880-881.	6.6	202
7	Intermolecular Hydroacylation by Transition-Metal Complexes. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 1869-1881.	1.2	201
8	A Highly Active Catalyst System for Intermolecular Hydroacylation. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3070-3072.	7.2	158
9	The Catalytic Alkylation of Aromatic Imines by Wilkinson's Complex: The Domino Reaction of Hydroacylation and ortho-Alkylation. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3440-3442.	7.2	157
10	Chelation-Assisted Rh-I-Catalyzed ortho-Alkylation of Aromatic Ketimines or Ketones with Olefins. <i>Chemistry - A European Journal</i> , 2002, 8, 485-492.	1.7	157
11	Chelation-Assisted Carbon-Hydrogen and Carbon-Carbon Bond Activation by Transition Metal Catalysts. <i>Chemistry - A European Journal</i> , 2002, 8, 2422.	1.7	144
12	The C-C Bond Activation and Skeletal Rearrangement of Cycloalkanone Imine by Rh(I) Catalysts. <i>Journal of the American Chemical Society</i> , 2001, 123, 751-752.	6.6	129
13	Directional Electron Transfer in Chromophore-Labeled Quantum-Sized Au ₂₅ Clusters: Au ₂₅ as an Electron Donor. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1497-1503.	2.1	116
14	Efficient and Selective Hydroacylation of 1-Alkynes with Aldehydes by a Chelation-Assisted Catalytic System This work was supported by the National Research Laboratory Program (2000-N-NL-01-C-271) administered by the Ministry of Science and Technology.. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2146.	7.2	114
15	Demonstration of a magnetic and catalytic Co@Pt nanoparticle as a dual-function nanoplatform. <i>Chemical Communications</i> , 2006, , 1619.	2.2	92
16	Metal-catalysed alkyl ketone to ethyl ketone conversions in chelating ketones via carbon-carbon bond cleavage. <i>Journal of the Chemical Society Chemical Communications</i> , 1985, , 92-93.	2.0	88
17	Directed C-H-C Bond Activation by Transition Metal Complexes. <i>Topics in Organometallic Chemistry</i> , 2007, , 117-143.	0.7	87
18	Post-grafting of silica surfaces with pre-functionalized organosilanes: new synthetic equivalents of conventional trialkoxysilanes. <i>Chemical Communications</i> , 2011, 47, 4860.	2.2	81

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19	Chelation-Assisted Hydroacylation. <i>Synlett</i> , 1999, 1999, 1-12.	1.0	75
20	Cleavage of Carbon-Carbon Triple Bond of Alkyne via Hydroiminoacylation by Rh(I) Catalyst. <i>Journal of the American Chemical Society</i> , 2001, 123, 8600-8601.	6.6	74
21	A Hydroacylation-Triggered Carbon-Carbon Triple Bond Cleavage in Alkynes via Retro-Mannich Type Fragmentation. <i>Journal of the American Chemical Society</i> , 2003, 125, 6372-6373.	6.6	72
22	Hydroacylation of 1-Alkene with Heteroaromatic Aldehyde by Rh(I) and Additives. <i>Tetrahedron Letters</i> , 1997, 38, 6673-6676.	0.7	71
23	Direct Synthesis of Ketones from Primary Alcohols and 1-Alkenes. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 145-147.	7.2	65
24	C-H and C-C Bond Activation of Primary Amines through Dehydrogenation and Transimination. <i>Organic Letters</i> , 2001, 3, 785-787.	2.4	65
25	Sc(OTf) ₃ -Mediated Silylation of Hydroxy Functional Groups on a Solid Surface: A Catalytic Grafting Method Operating at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 109-112.	7.2	57
26	Chelation-assisted α -alkylation of α,β -unsaturated ketone using Rh(I) catalyst and dialkyl amine. <i>Tetrahedron Letters</i> , 2002, 43, 4233-4236.	0.7	54
27	A New Solvent System for Recycling Catalysts for Chelation-Assisted Hydroacylation of Olefins with Primary Alcohols. <i>Journal of the American Chemical Society</i> , 2004, 126, 424-425.	6.6	53
28	Catalytic Activation of C-H and C-C Bonds of Allylamines via Olefin Isomerization by Transition Metal Complexes. <i>Organic Letters</i> , 1999, 1, 2161-2164.	2.4	52
29	Catalytic Carbon-Carbon Bond Activation of sec-Alcohols by a Rhodium(I) Complex. <i>Organometallics</i> , 2001, 20, 2928-2931.	1.1	52
30	Synthesis of Isoquinoline Derivatives through Rhodium(III)-Catalyzed Reactions of Benzylamines with Non-terminal Alkynes. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 2667-2679.	2.1	52
31	Adsorptive Separation of Acetylene from Light Hydrocarbons by Mesoporous Iron Trimesate MIL-100(Fe). <i>Chemistry - A European Journal</i> , 2015, 21, 18431-18438.	1.7	51
32	Synthesis of Cycloalkanones from Dienes and Allylamines through C-H and C-C Bond Activation Catalyzed by a Rhodium(I) Complex This work was supported by the National Research Laboratory Program (2000-N-NL-01-C-271) administered by Ministry of Science and Technology, and by the Korean Science and Engineering Foundation (20004010).. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3031.	7.2	50
33	Highly Selective H ₂ O-Based Oxidation of Alkylphenols to Benzoquinones Over MIL-125 Metal-Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 132-139.	1.0	50
34	Pyridine synthesis by reactions of allyl amines and alkynes proceeding through a Cu(OAc) ₂ oxidation and Rh(III)-catalyzed N-annulation sequence. <i>Chemical Communications</i> , 2012, 48, 11334.	2.2	48
35	Catalytic Transformation of Aldimine to Ketimine by Wilkinson's Complex through Transimination. <i>Organic Letters</i> , 1999, 1, 887-889.	2.4	47
36	Hydroesterification of Alkenes with Sodium Formate and Alcohols Promoted by Cooperative Catalysis of Ru ₃ (CO) ₁₂ and 2-Pyridinemethanol. <i>Journal of Organic Chemistry</i> , 2014, 79, 12191-12196.	1.7	47

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37	Chelation-Assisted Hydrative Dimerization of 1-Alkyne Forming $\hat{1},\hat{2}$ -Enones by an Rh(I) Catalyst. <i>Journal of the American Chemical Society</i> , 2004, 126, 13892-13893.	6.6	45
38	Solvent-Free Chelation-Assisted Catalytic C $\hat{1},\hat{2}$ C Bond Cleavage of Unstrained Ketone by Rhodium(I) Complexes under Microwave Irradiation. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 55-58.	2.1	45
39	Microwave-Assisted, Rhodium(III)-Catalyzed N-Annulation Reactions of Aryl and $\hat{1},\hat{2}$ -Unsaturated Ketones with Alkynes. <i>Chemistry - A European Journal</i> , 2014, 20, 323-333.	1.7	45
40	Solvent-free chelation-assisted intermolecular hydroacylation: effect of microwave irradiation in the synthesis of ketone from aldehyde and 1-alkene by Rh(I) complex. <i>Tetrahedron Letters</i> , 2001, 42, 4803-4805.	0.7	43
41	A method for the synthesis of pyridines from aldehydes, alkynes and NH ₄ OAc involving Rh-catalyzed hydroacylation and N-annulation. <i>Chemical Communications</i> , 2012, 48, 11787.	2.2	42
42	Rhodium(i)-catalyzed one-pot synthesis of dialkyl ketones from methanol and alkenes through directed sp ³ C-H bond activation of N-methylamine. <i>Chemical Communications</i> , 2008, , 5779.	2.2	41
43	Chelation-assisted carbon-carbon bond activation by Rh(I) catalysts. <i>Journal of Molecular Catalysis A</i> , 2002, 189, 145-156.	4.8	40
44	Transition-Metal-Catalyzed Immobilization of Organic Functional Groups onto Solid Supports through Vinylsilane Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2010, 132, 7268-7269.	6.6	39
45	Synthesis of Pyrroles through Rhodium(III)-Catalyzed Reactions of Allylamines and Alkenes. <i>Organic Letters</i> , 2015, 17, 3842-3845.	2.4	37
46	Direct conversion of benzyl alcohol to ketone by polymer-supported Rh catalyst. <i>Tetrahedron Letters</i> , 1999, 40, 8897-8900.	0.7	36
47	Synthesis of Benzoquinolinium Salts by Rh(III)-Catalyzed Cascade Double N-Annulation Reactions of Allylamines, Diarylacetylenes, and HBF ₄ . <i>Organic Letters</i> , 2017, 19, 2941-2944.	2.4	36
48	One-Pot Synthesis of Oxo Acid Derivatives by Rh(I)-Catalyzed Chelation-Assisted Hydroacylation. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 2504-2507.	1.2	35
49	Synthesis of Aliphatic Ketones from Allylic Alcohols through Consecutive Isomerization and Chelation-Assisted Hydroacylation by a Rhodium Catalyst. <i>Journal of Organic Chemistry</i> , 2002, 67, 3945-3948.	1.7	34
50	Recyclable Self-Assembly-Supported Catalyst for Chelation-Assisted Hydroacylation of an Olefin with a Primary Alcohol. <i>Organic Letters</i> , 2006, 8, 2937-2940.	2.4	33
51	The effects of amine and acid catalysts on efficient chelation-assisted hydroacylation of alkene with aliphatic aldehyde. <i>Tetrahedron Letters</i> , 2009, 50, 3338-3340.	0.7	31
52	Application of Rh(I)-Catalyzed C-H Bond Activation to the Ring Opening of 2-Cycloalkenones in the Presence of Amines. <i>Organic Letters</i> , 2002, 4, 1595-1597.	2.4	29
53	Palladium-Catalyzed Carbonylative Esterification of Primary Alcohols with Aryl Chlorides through Dehydroxymethylative C-C Bond Cleavage. <i>ACS Catalysis</i> , 2015, 5, 397-401.	5.5	28
54	Dual Functionalities of Hydrogen-Bonding Self-Assembled Catalysts in Chelation-Assisted Hydroacylation. <i>Journal of Organic Chemistry</i> , 2008, 73, 5598-5601.	1.7	26

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55	Morphology-Conserving Non-Kirkendall Anion Exchange of Metal Oxide Nanocrystals. <i>Journal of the American Chemical Society</i> , 2020, 142, 9130-9134.	6.6	25
56	Solvent-free chelation-assisted hydroacylation of olefin by rhodium(I) catalyst under microwave irradiation. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 1280-1285.	1.3	23
57	Stepwise Skeletal Rearrangement: A Four-Membered-Ring Cyclization via C-H Bond Cleavage and C-C Bond Cleavage of a Four-Membered Ring by Rhodium(I). <i>Organometallics</i> , 1996, 15, 895-897.	1.1	22
58	One-Step, Acid-Mediated Method for Modification of Glass Surfaces with N-Hydroxysuccinimide Esters and Its Application to the Construction of Microarrays for Studies of Biomolecular Interactions. <i>Bioconjugate Chemistry</i> , 2010, 21, 1246-1253.	1.8	21
59	Synthesis of Amides and Phthalimides via a Palladium Catalyzed Aminocarbonylation of Aryl Halides with Formic Acid and Carbodiimides. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3508-3512.	1.7	21
60	Simultaneous hydrogenation and hydroacylation of vinyl groups in polybutadiene by use of a rhodium catalyst. <i>Polymer</i> , 1998, 39, 7143-7147.	1.8	20
61	A one-step co-condensation method for the synthesis of well-defined functionalized mesoporous SBA-15 using trimethylsilanes as organosilane sources. <i>Chemical Communications</i> , 2015, 51, 17084-17087.	2.2	20
62	Freestanding fiber mats of zeolitic imidazolate framework 7 via one-step, scalable electrospinning. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	19
63	Rh(III)-catalyzed C-H activation reactions forming 1H-isoindoles containing a quaternary carbon center from aryl ketones or benzylamines. <i>Chemical Communications</i> , 2016, 52, 10171-10174.	2.2	19
64	One-pot catalytic C=C double bond cleavage of α,β -enones aided by alkyl group-immobilized silica spheres. <i>Tetrahedron Letters</i> , 2010, 51, 160-163.	0.7	18
65	Facile One-Step Catalytic Grafting of N-Hydroxysuccinimidyl Ester-Functionalized Methallylsilane onto Silica for Enzyme Immobilization. <i>Chemistry - an Asian Journal</i> , 2011, 6, 638-645.	1.7	18
66	Copper(II)-Promoted, One-Pot Conversion of 1-Alkynes with Anhydrides or Primary Amines to the Respective 2,5-Disubstituted Furans or Pyrroles under Microwave Irradiation Conditions. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 3485-3490.	2.1	18
67	A catalytic hydroesterification process using HCO_2Na , $\text{Ru}(\text{CO})_{12}$ and alcohols for the preparation of ester modified polybutadienes. <i>Chemical Communications</i> , 2015, 51, 14667-14670.	2.2	18
68	Ferric(III) Chloride Catalyzed Halogenation Reaction of Alcohols and Carboxylic Acids Using β,β -Dichlorodiphenylmethane. <i>Organic Letters</i> , 2018, 20, 2468-2471.	2.4	17
69	Reaction monitoring of succinylation of collagen with matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 2125-2128.	0.7	16
70	Pd/Catalyzed Carbonylative Esterification of Aryl Halides with Alcohols by Using Oxiranes as CO Sources. <i>Chemistry - A European Journal</i> , 2016, 22, 6234-6238.	1.7	16
71	Effects of Omega-3 Fatty Acids on Apoptosis of Human Gastric Epithelial Cells Exposed to Silica-Immobilized Glucose Oxidase. <i>Annals of the New York Academy of Sciences</i> , 2009, 1171, 359-364.	1.8	15
72	Metal-Organic Cooperative Catalysis in C-C Bond Activation. <i>Topics in Current Chemistry</i> , 2013, 346, 59-83.	4.0	15

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73	A method for introducing organic functional groups on silica surfaces using a functionalized vinylsilane containing polymer. <i>Polymer Chemistry</i> , 2015, 6, 555-560.	1.9	15
74	Microwave-assisted, tetrabutylammonium hydroxide catalysed 1,4-addition of water to α,β -unsaturated ketones and α,β -ynones in aqueous solution. <i>RSC Advances</i> , 2014, 4, 48331-48335.	1.7	12
75	Pyridinium Salt Forming Rh(III)-Catalyzed Annulation Reaction of Secondary Allylamines with Internal Alkynes and Its Application to Surface Modification of a Mesoporous Material. <i>Organic Letters</i> , 2018, 20, 264-267.	2.4	12
76	Hydroacylation of 4-[¹⁸ F]fluorobenzaldehyde: a novel method for the preparation of 4-[¹⁸ F]phenylketones. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2002, 45, 1045-1053.	0.5	11
77	Styrylsilane coupling reagents for immobilization of organic functional groups on silica and glass surfaces. <i>Chemical Communications</i> , 2018, 54, 9961-9964.	2.2	11
78	Metal Organic Framework: Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation (Adv. Mater. 32/2015). <i>Advanced Materials</i> , 2015, 27, 4803-4803.	11.1	10
79	Efficient and selective hydroacylation of 1-alkynes with aldehydes by a chelation-assisted catalytic system. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2146-7.	7.2	10
80	Double Hydroacylation Reactions of Acyclic and Cyclic α,β -Unsaturated Aldehydes. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1926-1930.	1.7	9
81	A method for highly efficient catalytic immobilisation of glucose oxidase on the surface of silica. <i>Chemical Communications</i> , 2013, 49, 11170.	2.2	8
82	Tandem Catalytic Triple-Bond Cleavage of Alkyne in Association with Aldehyde, Alkene, and Water. <i>Synlett</i> , 2009, 2009, 2939-2942.	1.0	7
83	Porous Materials: Energy-Efficient Dehumidification over Hierarchically Porous Metal-Organic Frameworks as Advanced Water Adsorbents (Adv. Mater. 6/2012). <i>Advanced Materials</i> , 2012, 24, 710-710.	11.1	7
84	Development of a reusable colorimetric calcium sensor based on a calix[4]arene-functionalised glass surface. <i>Supramolecular Chemistry</i> , 2013, 25, 121-126.	1.5	6
85	Coupling Reagent for UV/vis Absorbing Azobenzene-Based Quantitative Analysis of the Extent of Functional Group Immobilization on Silica. <i>Organic Letters</i> , 2018, 20, 2972-2975.	2.4	6
86	Modification of Polybutadiene: Chelation-Assisted Hydroacylation of α,ω -Diol with a Rhodium(I) Catalyst. <i>Synlett</i> , 2009, 2009, 2647-2650.	1.0	5
87	Modification of Polybutadiene by Transition Metal Catalysts: Hydroacylation of Polybutadiene. <i>ACS Symposium Series</i> , 2000, , 94-107.	0.5	4
88	Chelation-Assisted C-H and C-C Bond Activation of Allylic Alcohols by a Rh(I) Catalyst under Microwave Irradiation. <i>Synlett</i> , 2018, 29, 736-741.	1.0	4
89	A one-step method for covalent bond immobilization of biomolecules on silica operated in aqueous solution. <i>Chemical Science</i> , 2018, 9, 7981-7985.	3.7	4
90	Recyclable Transition Metal Catalysis using Bipyridine-Functionalized SBA-15 by Cocondensation of Methallylsilane with TEOS. <i>Chemistry - an Asian Journal</i> , 2021, 16, 197-201.	1.7	4

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91	Medical fluorophore 1 (MF1), a benzoquinolizinium-based fluorescent dye, as an inflammation imaging agent. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7326-7331.	2.9	3
92	Facile Synthesis of 3-Thiomethyl-2-isoxoline Derivatives: New Sulfide Formation from Epoxide Containing Isoxazolines via Retro-Aldol Type Reaction. <i>Synthetic Communications</i> , 2003, 33, 749-756.	1.1	1
93	Surface functionalization of silica using catalytic hydroesterification modified polybutadienes. <i>RSC Advances</i> , 2019, 9, 12265-12268.	1.7	1