

Chul-Ho Jun

List of Publications by Year in descending order

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93
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6,769
citations

76196

40
h-index

60497

81
g-index

95
all docs

95
docs citations

95
times ranked

5031
citing authors

#	ARTICLE	IF	CITATIONS
1	Recyclable Transition Metal Catalysis using Bipyridine-Functionalized SBA-15 by Co-condensation of Methallylsilane with TEOS. <i>Chemistry - an Asian Journal</i> , 2021, 16, 197-201.	1.7	4
2	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
3	Surface functionalization of silica using catalytic hydroesterification modified polybutadienes. <i>RSC Advances</i> , 2019, 9, 12265-12268.	1.7	1
4	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
5	Ferric(III) Chloride Catalyzed Halogenation Reaction of Alcohols and Carboxylic Acids Using I_2 -Dichlorodiphenylmethane. <i>Organic Letters</i> , 2018, 20, 2468-2471.	2.4	17
6	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
7	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
8	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
9	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
10	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
11	Metal-Organic Cooperative Catalysis in C-H and C-C Bond Activation. <i>Chemical Reviews</i> , 2017, 117, 8977-9015.	23.0	525
12	Synthesis of Benzoquinolizinium Salts by Rh(III)-Catalyzed Cascade Double C-N-Annulation Reactions of Allylamines, Diarylacetylenes, and HBF ₄ . <i>Organic Letters</i> , 2017, 19, 2941-2944.	2.4	36
13	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
14	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
15	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
16	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
17	Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation. <i>Advanced Materials</i> , 2015, 27, 4775-4780.	11.1	253
18	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

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19	Copper(II)-Promoted, One-Pot Conversion of 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
20	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
21	Synthesis of Pyrroles through Rhodium(III)-Catalyzed Reactions of Allylamines and Alkenes. <i>Organic Letters</i> , 2015, 17, 3842-3845.	2.4	37
22	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
23	Metal Organic Framework: Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation (<i>Adv. Mater.</i> 32/2015). <i>Advanced Materials</i> , 2015, 27, 4803-4803.	11.1	10
24	A one-step co-condensation method for the synthesis of well-defined functionalized mesoporous SBA-15 using trimethylsilylanes as organosilane sources. <i>Chemical Communications</i> , 2015, 51, 17084-17087.	2.2	20
25	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
26	Highly Selective H_2O_2 -Based Oxidation of Alkylphenols to <i>p</i> -Benzoquinones Over MIL-125 Metal-Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 132-139.	1.0	50
27	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
28	Hydroesterification of Alkenes with Sodium Formate and Alcohols Promoted by Cooperative Catalysis of $\text{Ru}(\text{CO})_{12}$ and 2-Pyridinemethanol. <i>Journal of Organic Chemistry</i> , 2014, 79, 12191-12196.	1.7	47
29	Microwave-Assisted, Rhodium(III)-Catalyzed N-Annulation Reactions of Aryl and α,β -Unsaturated Ketones with Alkynes. <i>Chemistry - A European Journal</i> , 2014, 20, 323-333.	1.7	45
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	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
32	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
33	Metal-Organic Cooperative Catalysis in C-C Bond Activation. <i>Topics in Current Chemistry</i> , 2013, 346, 59-83.	4.0	15
34	A method for the synthesis of pyridines from aldehydes, alkynes and NH_4OAc involving Rh-catalyzed hydroacylation and N-annulation. <i>Chemical Communications</i> , 2012, 48, 11787.	2.2	42
35	Pyridine synthesis by reactions of allyl amines and alkynes proceeding through a $\text{Cu}(\text{OAc})_2$ oxidation and Rh(III)-catalyzed N-annulation sequence. <i>Chemical Communications</i> , 2012, 48, 11334.	2.2	48
36	Porous Materials: Energy-Efficient Dehumidification over Hierarchically Porous Metal-Organic Frameworks as Advanced Water Adsorbents (<i>Adv. Mater.</i> 6/2012). <i>Advanced Materials</i> , 2012, 24, 710-710.	11.1	7

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37	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
38	Facile One-Step Catalytic Grafting of <i>N</i> -Hydroxysuccinimidyl-Ester-Functionalized Methallylsilane onto Silica for Enzyme Immobilization. <i>Chemistry - an Asian Journal</i> , 2011, 6, 638-645.	1.7	18
39	Double Hydroacylation Reactions of Acyclic and Cyclic α,β -Unsaturated Aldehydes. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1926-1930.	1.7	9
40	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
41	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
42	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
43	One-Step, Acid-Mediated Method for Modification of Glass Surfaces with <i>N</i> -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
44	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
45	Tandem Catalytic Triple-Bond Cleavage of Alkyne in Association with Aldehyde, Alkene, and Water. <i>Synlett</i> , 2009, 2009, 2939-2942.	1.0	7
46	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
47	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
48	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
49	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
50	Rhodium(i)-catalyzed one-pot synthesis of dialkyl ketones from methanol and alkenes through directed sp ³ C-H bond activation of <i>N</i> -methylamine. <i>Chemical Communications</i> , 2008, , 5779.	2.2	41
51	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
52	Directed C=C Bond Activation by Transition Metal Complexes. <i>Topics in Organometallic Chemistry</i> , 2007, , 117-143.	0.7	87
53	Intermolecular Hydroacylation by Transition-Metal Complexes. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 1869-1881.	1.2	201
54	Demonstration of a magnetic and catalytic Co@Pt nanoparticle as a dual-function nanoplatform. <i>Chemical Communications</i> , 2006, , 1619.	2.2	92

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55	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
56	One-Pot Synthesis of Oxo Acid Derivatives by RhI-Catalyzed Chelation-Assisted Hydroacylation. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 2504-2507.	1.2	35
57	Solvent-Free Chelation-Assisted Catalytic C=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
58	Chelation-Assisted Hydrative Dimerization of 1-Alkyne Forming α,β -Enones by an Rh(I) Catalyst. <i>Journal of the American Chemical Society</i> , 2004, 126, 13892-13893.	6.6	45
59	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
60	Transition metal-catalyzed carbon-carbon bond activation. <i>Chemical Society Reviews</i> , 2004, 33, 610-618.	18.7	912
61	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
62	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
63	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
64	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
65	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
66	Chelation-Assisted RhI-Catalyzed ortho-Alkylation of Aromatic Ketimines or Ketones with Olefins. <i>Chemistry - A European Journal</i> , 2002, 8, 485-492.	1.7	157
67	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
68	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
69	Synthesis of Cycloalkanones from Dienes and Allylamines through C=C 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
70	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
71	Chelation-assisted carbon-carbon bond activation by Rh(I) catalysts. <i>Journal of Molecular Catalysis A</i> , 2002, 189, 145-156.	4.8	40
72	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

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73	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
74	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
75	Catalytic Carbon-Carbon Bond Activation of sec-Alcohols by a Rhodium(I) Complex. <i>Organometallics</i> , 2001, 20, 2928-2931.	1.1	52
76	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
77	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
78	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
79	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
80	A Highly Active Catalyst System for Intermolecular Hydroacylation. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3070-3072.	7.2	158
81	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
82	Modification of Polybutadiene by Transition Metal Catalysts: Hydroacylation of Polybutadiene. <i>ACS Symposium Series</i> , 2000, , 94-107.	0.5	4
83	Chelation-Assisted Hydroacylation. <i>Synlett</i> , 1999, 1999, 1-12.	1.0	75
84	Direct conversion of benzyl alcohol to ketone by polymer-supported Rh catalyst. <i>Tetrahedron Letters</i> , 1999, 40, 8897-8900.	0.7	36
85	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
86	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
87	Catalytic Transformation of Aldimine to Ketimine by Wilkinson's Complex through Transimination. <i>Organic Letters</i> , 1999, 1, 887-889.	2.4	47
88	Direct Synthesis of Ketones from Primary Alcohols and 1-Alkenes. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 145-147.	7.2	65
89	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
90	Chelation-Assisted Intermolecular Hydroacylation: Direct Synthesis of Ketone from Aldehyde and 1-Alkene. <i>Journal of Organic Chemistry</i> , 1997, 62, 1200-1201.	1.7	239

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91	Hydroacylation of 1-Alkene with Heteroaromatic Aldehyde by Rh(I) and Additives. <i>Tetrahedron Letters</i> , 1997, 38, 6673-6676.	0.7	71
92	Stepwise Skeletal Rearrangement: 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
93	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