Jung Woon Yang

List of Publications by Year
in descending order

66 papers	6,349 citations	172207 29 h-index	138251 58 g-index
92 all docs	92 docs citations	92 times ranked	5205 citing authors

#	Article	IF	Citations
1	Asymmetric Enamine Catalysis. Chemical Reviews, 2007, 107, 5471-5569.	23.0	2,584
2	Catalytic Asymmetric Reductive Michael Cyclization. Journal of the American Chemical Society, 2005, 127, 15036-15037.	6.6	386
3	A Metal-Free Transfer Hydrogenation: Organocatalytic Conjugate Reduction of ?,?-Unsaturated Aldehydes. Angewandte Chemie - International Edition, 2004, 43, 6660-6662.	7.2	323
4	Metal-Free, Organocatalytic Asymmetric Transfer Hydrogenation of ?,?-Unsaturated Aldehydes. Angewandte Chemie - International Edition, 2005, 44, 108-110.	7.2	320
5	CHEMISTRY: The Organic Approach to Asymmetric Catalysis. Science, 2006, 313, 1584-1586.	6.0	303
6	New development in the enantioselective synthesis of spiro compounds. Chemical Society Reviews, 2018, 47, 5946-5996.	18.7	293
7	Proline-catalysed Mannich reactions of acetaldehyde. Nature, 2008, 452, 453-455.	13.7	263
8	Proline-Catalyzed Mannich Reaction of Aldehydes withN-Boc-Imines. Angewandte Chemie - International Edition, 2007, 46, 609-611.	7.2	179
9	Catalytic Asymmetric Transfer Hydrogenation of Î±-Ketoesters with Hantzsch Esters. Organic Letters, 2006, 8, 5653-5655.	2.4	110
10	Hydrotrifluoromethylation and iodotrifluoromethylation of alkenes and alkynes using an inorganic electride as a radical generator. Nature Communications, 2014, 5, 4881.	5.8	110
11	Efficient and practical polymeric catalysts for heterogeneous asymmetric dihydroxylation of olefins. Tetrahedron: Asymmetry, 1996, 7, 645-648.	1.8	89
12	Synthesis of DNA Triangles with Vertexes of Bis(terpyridine)iron(II) Complexes. Journal of the American Chemical Society, 2004, 126, 8606-8607.	6.6	89
13	Switching Regioselectivity in Crossed Acyloin Condensations between Aromatic Aldehydes and Acetaldehyde by Altering N-Heterocyclic Carbene Catalysts. Organic Letters, 2011, 13, 880-883.	2.4	83
14	A Chiralâ€Anion Generator: Application to Catalytic Desilylative Kinetic Resolution of Silylâ€Protected Secondary Alcohols. Angewandte Chemie - International Edition, 2010, 49, 8915-8917.	7.2	69
15	Silica gel supported bis-cinchona alkaloid: a highly efficient chiral ligand for heterogeneous asymmetric dihydroxylation of olefins. Tetrahedron: Asymmetry, 1997, 8, 841-844.	1.8	62
16	Osmium Tetroxide Anchored to Porous Resins Bearing Residual Vinyl Groups:â€‰ A Highly Active and Recyclable Solid for Asymmetric Dihydroxylation of Olefins. Organic Letters, 2002, 4, 4685-4688.	2.4	54
17	Heterogeneous Pd-Catalyzed Asymmetric Allylic Substitution Using Resin-Supported Trost-Type Bisphosphane Ligands. Angewandte Chemie - International Edition, 2002, 41, 3852-3854.	7.2	51
18	Two dimensional inorganic electride-promoted electron transfer efficiency in transfer hydrogenation of alkynes and alkenes. Chemical Science, 2015, 6, 3577-3581.	3.7	51

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19	Heterogeneous organocatalysis for the asymmetric desymmetrization of meso-cyclic anhydrides using silica gel-supported bis-cinchona alkaloids. Tetrahedron, 2004, 60, 12051-12057.	1.0	50
20	Asymmetric Synthesis of Î±-Fluoro-Î²-Amino-oxindoles with Tetrasubstituted Câ€“F Stereogenic Centers via Cooperative Cation-Binding Catalysis. Organic Letters, 2017, 19, 5336-5339.	2.4	44
21	The scalable pinacol coupling reaction utilizing the inorganic electride [Ca₂N]⁺Â·e^{â¯} as an electron donor. Chemical Communications, 2014, 50, 4791-4794.	2.2	42
22	Silica gel-supported bis-cinchona alkaloid: a chiral catalyst for the heterogeneous asymmetric desymmetrization of meso-cyclic anhydrides. Tetrahedron Letters, 2004, 45, 3301-3304.	0.7	38
23	Oxidation of benzoins to benzils using sodium hydride. Tetrahedron Letters, 2010, 51, 6006-6007.	0.7	33
24	Transition-Metal-Free and Chemoselective NaO^tBuâ€“O₂-Mediated Oxidative Cleavage Reactions of vic-1,2-Diols to Carboxylic Acids and Mechanistic Insight into the Reaction Pathways. Organic Letters, 2014, 16, 2876-2879.	2.4	33
25	Practical Proline-catalyzed asymmetric Mannich reaction of aldehydes with N-Boc-imines. Nature Protocols, 2007, 2, 1937-1942.	5.5	32
26	N-Heterocyclic carbene-catalysed intermolecular Stetter reactions of acetaldehyde. Organic and Biomolecular Chemistry, 2011, 9, 2069.	1.5	32
27	Metalâ€Free Chemoselective Oxidative Dehomologation or Direct Oxidation of Alcohols: Implication for Biomass Conversion. ChemSusChem, 2016, 9, 241-245.	3.6	31
28	Chemoselective and repetitive intermolecular cross-acyloin condensation reactions between a variety of aromatic and aliphatic aldehydes using a robust N-heterocyclic carbene catalyst. Organic and Biomolecular Chemistry, 2014, 12, 1547-1550.	1.5	30
29	Organocatalytic asymmetric synthesis of Î²3-amino acid derivatives. Organic and Biomolecular Chemistry, 2013, 11, 4737.	1.5	29
30	Organophotocatalytic Synthesis of Phosphoramidates. Advanced Synthesis and Catalysis, 2016, 358, 719-723.	2.1	29
31	Copperâ€Catalyzed Asymmetric Synthesis of Borylated cisâ€Disubstituted Indolines. Chemistry - an Asian Journal, 2018, 13, 2365-2368.	1.7	27
32	Enantioselective Organocatalytic Cyclopropanation of Enals Using Benzyl Chlorides. Journal of Organic Chemistry, 2016, 81, 3488-3500.	1.7	26
33	Binder-free organic cathode based on nitroxide radical polymer-functionalized carbon nanotubes and gel polymer electrolyte for high-performance sodium organic polymer batteries. Journal of Materials Chemistry A, 2020, 8, 17980-17986.	5.2	25
34	Oxidation of benzoins to benzoic acids using sodium hydride under oxygen atmosphere. Tetrahedron Letters, 2011, 52, 502-504.	0.7	24
35	Transition metal-free, NaOtBu-O2-mediated one-pot cascade oxidation of allylic alcohols to Î±,Î²-unsaturated carboxylic acids. Green Chemistry, 2012, 14, 2996.	4.6	23
36	Transition-metal-free conversion of lignin model compounds to high-value aromatics: scope and chemoselectivity. Green Chemistry, 2018, 20, 3761-3771.	4.6	23

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37	Chemoselective Hydrodehalogenation of Organic Halides Utilizing Two-Dimensional Anionic Electrons of Inorganic Electride [Ca₂N]⁺·e^{â€“}. Langmuir, 2017, 33, 954-958.	1.6	22
38	Impact of Carboxyl Groups in Graphene Oxide on Chemoselective Alcohol Oxidation with Ultra-Low Carbocatalyst Loading. Scientific Reports, 2017, 7, 3146.	1.6	22
39	Chemoselective reduction and oxidation of ketones in water through control of the electron transfer pathway. Scientific Reports, 2015, 5, 10366.	1.6	21
40	Expanding the Scope of the Organocatalytic Addition of Fluorobis(phenylsulfonyl)methane to Enals: Enantioselective Cascade Synthesis of Fluoroindane and Fluorochromanol Derivatives. Advanced Synthesis and Catalysis, 2014, 356, 437-446.	2.1	19
41	Acetaldehyde: A Small Organic Molecule with Big Impact on Organocatalytic Reactions. Chemistry - A European Journal, 2016, 22, 2214-2234.	1.7	18
42	Birch Reduction of Aromatic Compounds by Inorganic Electride [Ca₂N]^{+â€¢}e^{â€“} in an Alcoholic Solvent: An Analogue of Solvated Electrons. Journal of Organic Chemistry, 2018, 83, 13847-13853.	1.7	18
43	In situ generation of hydroperoxide by oxidation of benzhydrols to benzophenones using sodium hydride under oxygen atmosphere: use for the oxidative cleavage of cyclic 1,2-diketones to dicarboxylic acids. Tetrahedron Letters, 2013, 54, 373-376.	0.7	17
44	Structural Basis for the Enantioselectivity of Esterase Est-Y29 toward (S)-Ketoprofen. ACS Catalysis, 2019, 9, 755-767.	5.5	14
45	Osmylated macroporous resins: safe, highly efficient and recyclable catalysts for asymmetric aminohydroxylation of olefinsElectronic supplementary information (ESI) available: experimental procedure. See http://www.rsc.org/suppdata/cc/b3/b303022a/. Chemical Communications, 2003, , 1312-1313.	2.2	13
46	Redox chemistry of nitrogen-doped CNT-encapsulated nitroxide radical polymers for high energy density and rate-capability organic batteries. Chemical Engineering Journal, 2021, 413, 127402.	6.6	13
47	Synergistic Catalysis: Highly Enantioselective Cascade Reaction for the Synthesis of Dihydroacridines. Chemistry - A European Journal, 2019, 25, 7623-7627.	1.7	10
48	Preparation of Chiral Contiguous Epoxyaziridines and Their Regioselective Ringâ€Opening for Drug Syntheses. Chemistry - A European Journal, 2018, 24, 2370-2374.	1.7	9
49	Functionalisation of esters via 1,3-chelation using NaOtBu: mechanistic investigations and synthetic applications. Organic Chemistry Frontiers, 2021, 8, 53-60.	2.3	9
50	Glycerol conversion to high-value chemicals: the implication of unnatural Î±-amino acid syntheses using natural resources. Green Chemistry, 2019, 21, 2615-2620.	4.6	6
51	Organocatalytic regiospecific synthesis of 1H-indene-2-carbaldehyde derivatives: suppression of cycloolefin isomerisation by employing sterically demanding catalysts. Organic and Biomolecular Chemistry, 2017, 15, 1355-1362.	1.5	5
52	Inverse Enantioselectivity with Catalyst Loading in Enantioselective Self-Benzoin Condensation using Triazolium-based N-Heterocyclic Carbene Catalyst. Bulletin of the Korean Chemical Society, 2011, 32, 4408-4410.	1.0	5
53	Mixed Monosilyl Acetals and Catalystâ€Dependent Chemoselective Mukaiyama Aldol Reactions. Chemistry - A European Journal, 2017, 23, 16432-16437.	1.7	4
54	Substrateâ€Controlled Chemoâ€/Enantioselective Synthesis of Îâ€Benzylated Enals and Chiral Cyclopropaneâ€Fused 2â€Chromanone Derivatives. Advanced Synthesis and Catalysis, 0, , .	2.1	4

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55	A metal-free and mild approach to 1,3,4-oxadiazol-2(3H)-ones via oxidative Câ€“C bond cleavage using molecular oxygen. Organic and Biomolecular Chemistry, 2018, 16, 2105-2113.	1.5	3
56	NHC-Assisted One-Pot Domino Oxidation of Aldehydes into Carboxylic Acids using Sodium Hydride under Oxygen Atmosphere. Bulletin of the Korean Chemical Society, 2011, 32, 2529-2530.	1.0	3
57	One-Pot Synthesis of Esters through a Benzoin Condensation-Oxidative Cleavage-Esterification Triple Cascade Reaction. Bulletin of the Korean Chemical Society, 2012, 33, 3122-3124.	1.0	2
58	Preparation and Utilization of Contiguous Bisaziridines as Chiral Building Blocks. Advanced Synthesis and Catalysis, 2021, 363, 3250-3257.	2.1	1
59	Heterogeneous Pd-Catalyzed Asymmetric Allylic Substitution Using Resin-Supported Trost-Type Bisphosphane Ligands.. ChemInform, 2003, 34, no.	0.1	0
60	Osmylated Macroporous Resins: Safe, Highly Efficient and Recyclable Catalysts for Asymmetric Aminohydroxylation of Olefins.. ChemInform, 2003, 34, no.	0.1	0
61	Heterogeneous Organocatalysis for the Asymmetric Desymmetrization of meso-Cyclic Anhydrides Using Silica Gel-Supported Bis-cinchona Alkaloids.. ChemInform, 2005, 36, no.	0.1	0
62	A Metal-Free Transfer Hydrogenation: Organocatalytic Conjugate Reduction of ?,?-Unsaturated Aldehydes.. ChemInform, 2005, 36, no.	0.1	0
63	Metal-Free, Organocatalytic Asymmetric Transfer Hydrogenation of ?,?-Unsaturated Aldehydes.. ChemInform, 2005, 36, no.	0.1	0
64	Cinchona-Based Organocatalysts for Asymmetric Oxidations and Reductions. , 0, , 105-129.		0
65	Metalâ€Free Chemoselective Oxidative Dehomologation or Direct Oxidation of Alcohols: Implication for Biomass Conversion. ChemSusChem, 2016, 9, 233-233.	3.6	0
66	Frontispiece: Mixed Monosilyl Acetals and Catalystâ€Dependent Chemoselective Mukaiyama Aldol Reactions. Chemistry - A European Journal, 2017, 23, .	1.7	0