

Lei Yang

List of Publications by Year in descending order

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43
papers

3,095
citations

201674

27
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254184

43
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docs citations

55
times ranked

3009
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition-Metal-Catalyzed Direct Addition of C-H Bonds to Polar Unsaturated Bonds. <i>Chemical Reviews</i> , 2015, 115, 3468-3517.	47.7	668
2	An Efficient Rh/O ₂ Catalytic System for Oxidative C-H Activation/Annulation: Evidence for Rh(I) to Rh(III) Oxidation by Molecular Oxygen. <i>Journal of the American Chemical Society</i> , 2013, 135, 8850-8853.	13.7	265
3	Palladium-Catalyzed Benzylic Addition of 2-Methyl Azaarenes to <i>N</i> -Sulfonyl Aldimines via C-H Bond Activation. <i>Journal of the American Chemical Society</i> , 2010, 132, 3650-3651.	13.7	259
4	Asymmetric catalytic carbon-carbon coupling reactions via C-H bond activation. <i>Catalysis Science and Technology</i> , 2012, 2, 1099.	4.1	144
5	Palladium(0)-catalyzed asymmetric C(sp ³)-H arylation using a chiral binol-derived phosphate and an achiral ligand. <i>Chemical Science</i> , 2017, 8, 1344-1349.	7.4	119
6	Enantioselective N-H Functionalization of Indoles with α,β -Unsaturated γ -Lactams Catalyzed by Chiral Brønsted Acids. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5682-5686.	13.8	118
7	RbIO ₃ and RbIO ₂ F ₂ : Two Promising Nonlinear Optical Materials in Mid-IR Region and Influence of Partially Replacing Oxygen with Fluorine for Improving Laser Damage Threshold. <i>Chemistry of Materials</i> , 2016, 28, 1413-1418.	6.7	107
8	Highly efficient aza-Michael reactions of aromatic amines and N-heterocycles catalyzed by a basic ionic liquid under solvent-free conditions. <i>Tetrahedron Letters</i> , 2006, 47, 7723-7726.	1.4	106
9	Brønsted Acid Enhanced Rhodium-Catalyzed Conjugate Addition of Aryl C-H Bonds to α,β -Unsaturated Ketones under Mild Conditions. <i>Chemistry - A European Journal</i> , 2012, 18, 9511-9515.	3.3	95
10	An Efficient Rhodium/Oxygen Catalytic System for Oxidative Heck Reaction of Indoles and Alkenes <i>via</i> C-H Functionalization. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 1509-1515.	4.3	90
11	Highly efficient KF/Al ₂ O ₃ -catalyzed versatile hetero-Michael addition of nitrogen, oxygen, and sulfur nucleophiles to α,β -ethylenic compounds. <i>Tetrahedron Letters</i> , 2005, 46, 3279-3282.	1.4	89
12	Chiral Brønsted Acid Directed Iron-Catalyzed Enantioselective Friedel-Crafts Alkylation of Indoles with α -Aryl β -Hydroxy Enones. <i>Chemistry - A European Journal</i> , 2010, 16, 1638-1645.	3.3	82
13	Copper-Catalyzed α -Benzylation of Enones via Radical-Triggered Oxidative Coupling of Two C-H Bonds. <i>ACS Catalysis</i> , 2015, 5, 2882-2885.	11.2	70
14	Enantioselective Michael-Type Friedel-Crafts Reactions of Indoles to Enones Catalyzed by a Chiral Camphor-Based Brønsted Acid. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 5225-5227.	2.4	60
15	A ₂ Bil ₅ O ₁₅ (A = K ⁺ or Rb ⁺): two new promising nonlinear optical materials containing [A ₃ O ₉] ³⁻ bridging anionic groups. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4057-4062.	5.5	59
16	Chiral Bifunctional Phosphine-Carboxylate Ligands for Palladium(0)-Catalyzed Enantioselective C-H Arylation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1394-1398.	13.8	57
17	Lewis Acid-Catalyzed Conjugate Addition of <i>sp</i> ³ C-H Bonds to Methylene malonitriles. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2146-2150.	4.3	56
18	Sulfonic Acid-Functionalized Ionic Liquids as Metal-Free, Efficient and Reusable Catalysts for Direct Amination of Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 1052-1060.	4.3	55

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19	Efficient catalytic aza-Michael additions of carbamates to enones: revisited dual activation of hard nucleophiles and soft electrophiles by InCl ₃ /TMSCl catalyst system. <i>Tetrahedron Letters</i> , 2007, 48, 1599-1603.	1.4	52
20	Cu-catalyzed direct C-H amination of 2-alkylazaarenes with azodicarboxylates via nucleophilic addition. <i>Tetrahedron Letters</i> , 2013, 54, 711-714.	1.4	41
21	Responses of aerobic granular sludge to fluoroquinolones: Microbial community variations, and antibiotic resistance genes. <i>Journal of Hazardous Materials</i> , 2021, 414, 125527.	12.4	40
22	Persistence of androgens, progestogens, and glucocorticoids during commercial animal manure composting process. <i>Science of the Total Environment</i> , 2019, 665, 91-99.	8.0	39
23	Acidic-functionalized ionic liquid as an efficient, green and reusable catalyst for hetero-Michael addition of nitrogen, sulfur and oxygen nucleophiles to α,β -unsaturated ketones. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 346-354.	2.8	38
24	Access to Coumarins by Rhodium-Catalyzed Oxidative Annulation of Aryl Thiocarbamates with Internal Alkynes. <i>Organic Letters</i> , 2015, 17, 1477-1480.	4.6	36
25	Metal-Free and Recyclable Route to Synthesize Polysubstituted Olefins <i>via</i> C-C Bond Construction from Direct Dehydrative Coupling of Alcohols or Alkenes with Alcohols Catalyzed by Sulfonic Acid-Functionalized Ionic Liquids. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 2506-2516.	4.3	34
26	Influence of A-site cations on germanium iodates as mid-IR nonlinear optical materials: A ₂ Ge(IO ₃) ₆ (A = Li, K, Rb and Cs) and BaGe(IO ₃) ₆ ·H ₂ O. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4698-4705.	5.5	30
27	Occurrence and fate of androgens, progestogens and glucocorticoids in two swine farms with integrated wastewater treatment systems. <i>Water Research</i> , 2021, 192, 116836.	11.3	27
28	RhCl ₃ ·3H ₂ O-Catalyzed Regioselective C(sp ²)-H Alkoxycarbonylation: Efficient Synthesis of Indole- and Pyrrole-2-carboxylic Acid Esters. <i>ACS Catalysis</i> , 2019, 9, 5545-5551.	11.2	26
29	Highly efficient bimetallic iron-palladium catalyzed Michael-type Friedel-Crafts reactions of indoles with chalcones. <i>Applied Organometallic Chemistry</i> , 2009, 23, 114-118.	3.5	21
30	Chiral Bifunctional Phosphine-Carboxylate Ligands for Palladium(0)-Catalyzed Enantioselective C-H Arylation. <i>Angewandte Chemie</i> , 2018, 130, 1408-1412.	2.0	20
31	Decarboxylative Alkylcarboxylation of α,β -Unsaturated Acids Enabled by Copper-Catalyzed Oxidative Coupling. <i>Organic Letters</i> , 2015, 17, 4968-4971.	4.6	18
32	Construction of diverse S-Se bonds <i>via</i> nickel catalyzed reductive coupling employing thiosulfonates and a selenosulfonate under mild conditions. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1375-1382.	4.5	18
33	Manganese(III) Acetate Catalyzed Aerobic Dehydrogenation of Tertiary Indolines, Tetrahydroquinolines and an α -Unsubstituted Indoline. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 4209-4215.	4.3	17
34	Chlorotrimethylsilane: A Powerful Lewis Acidic Catalyst in Michael-type Friedel-Crafts Reactions of Indoles and Enones. <i>Synthetic Communications</i> , 2007, 37, 3095-3104.	2.1	16
35	RhCl ₃ ·3H ₂ O-Catalyzed C7-Selective C-H Carbonylation of Indolines with CO and Alcohols. <i>Organic Letters</i> , 2019, 21, 6418-6422.	4.6	16
36	Efficient Thiolation of Alcohols Catalyzed by Long Chained Acid-Functionalized Ionic Liquids under Mild Conditions. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3012-3021.	2.4	16

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37	Chiral Phosphoric Acid Catalyzed Enantioselective Aza-Michael Addition of Aromatic Amines to Nitroolefins. <i>Chinese Journal of Catalysis</i> , 2011, 32, 1573-1576.	14.0	12
38	Tertiary amine-directed and involved carbonylative cyclizations through Pd/Cu-cocatalyzed multiple C–X (X = H or N) bond cleavage. <i>Chemical Science</i> , 2019, 10, 9292-9301.	7.4	12
39	Convenient Metal-Free Aziridination of Alkenes with Chloramine Using Tetrabutylammonium Iodide in Water. <i>Synthetic Communications</i> , 2005, 35, 1413-1417.	2.1	11
40	A new type quasi-solid state electrolyte for dye-sensitized solar cells. <i>Science Bulletin</i> , 2006, 51, 1551-1556.	1.7	8
41	Long-Chained Acidic Ionic Liquids-Catalyzed Cyclization of 2-Substituted Aminoaromatics with β^2 -Diketones: A Metal-Free Strategy to Construct Benzoazoles. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	8
42	Recent Advances in the Synthesis of Heterocyclic Compounds via Pd-Catalyzed C(sp ³)-H Bond Activation. <i>Chinese Journal of Organic Chemistry</i> , 2018, 38, 2833.	1.3	7
43	Iodine/water-mediated deprotective oxidation of allylic ethers to access β,β^2 -unsaturated ketones and aldehydes. <i>RSC Advances</i> , 2020, 10, 14720-14724.	3.6	3