

Zhi-Liang Shen

List of Publications by Year in descending order

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86
papers

2,869
citations

147566

31
h-index

197535

49
g-index

110
all docs

110
docs citations

110
times ranked

2269
citing authors

#	ARTICLE	IF	CITATIONS
1	Organoindium Reagents: The Preparation and Application in Organic Synthesis. <i>Chemical Reviews</i> , 2013, 113, 271-401.	23.0	228
2	Recent Advances in Radical-Initiated C(sp ³)-H Bond Oxidative Functionalization of Alkyl Nitriles. <i>ACS Catalysis</i> , 2018, 8, 258-271.	5.5	158
3	Brønsted Base-Catalyzed One-Pot Three-Component Biginelli-Type Reaction: An Efficient Synthesis of 4,5,6-Triaryl-3,4-dihydropyrimidin-2(1 <i>H</i>)-one and Mechanistic Study. <i>Journal of Organic Chemistry</i> , 2010, 75, 1162-1167.	1.7	150
4	Desulfonylation via Radical Process: Recent Developments in Organic Synthesis. <i>Chemical Reviews</i> , 2021, 121, 12548-12680.	23.0	118
5	Synthesis of Water-Tolerant Indium Homoenoate in Aqueous Media and Its Application in the Synthesis of 1,4-Dicarbonyl Compounds via Palladium-Catalyzed Coupling with Acid Chloride. <i>Journal of the American Chemical Society</i> , 2010, 132, 15852-15855.	6.6	101
6	Transition metal-catalyzed cross-coupling reactions using organoindium reagents. <i>Chemical Society Reviews</i> , 2017, 46, 586-602.	18.7	96
7	Visible Light-Mediated Trifluoromethylation of Fluorinated Alkenes via C-F Bond Cleavage. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3894-3899.	2.1	85
8	Indium(III) iodide-mediated Strecker reaction in water: an efficient and environmentally friendly approach for the synthesis of α -aminonitrile via a three-component condensation. <i>Tetrahedron</i> , 2008, 64, 8159-8163.	1.0	81
9	Lewis Acid-Catalyzed Selective [2 + 2]-Cycloaddition and Dearomatizing Cascade Reaction of Aryl Alkynes with Acrylates. <i>Journal of the American Chemical Society</i> , 2017, 139, 13570-13578.	6.6	65
10	Indium-Copper and Indium-Silver Mediated Barbier-Grignard-Type Alkylation Reaction of Aldehydes Using Unactivated Alkyl Halides in Water. <i>Journal of Organic Chemistry</i> , 2008, 73, 3922-3924.	1.7	61
11	Indium-Copper-Mediated Barbier-Grignard-Type Alkylation Reaction of Imines in Aqueous Media. <i>Organic Letters</i> , 2007, 9, 5413-5416.	2.4	56
12	Copper-catalyzed three-component cyclization of amidines, styrenes, and fluoroalkyl halides for the synthesis of modular fluoroalkylated pyrimidines. <i>Chemical Communications</i> , 2018, 54, 2615-2618.	2.2	49
13	Indium-Silver and Zinc-Silver Mediated Barbier-Grignard-Type Alkylation Reactions of Imines by Using Unactivated Alkyl Halides in Aqueous Media. <i>Chemistry - A European Journal</i> , 2008, 14, 1875-1880.	1.7	48
14	Direct Synthesis of Water-Tolerant Alkyl Indium Reagents and Their Application in Palladium-Catalyzed Couplings with Aryl Halides. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 511-514.	7.2	48
15	Synthesis and application of a recyclable ionic liquid-supported imidazolidinone catalyst in enantioselective 1,3-dipolar cycloaddition. <i>Chemical Communications</i> , 2012, 48, 5856.	2.2	46
16	Application of recyclable ionic liquid-supported imidazolidinone catalyst in enantioselective Diels-Alder reactions. <i>Green Chemistry</i> , 2012, 14, 2626.	4.6	45
17	An environmentally friendly procedure for Mukaiyama aldol and Mukaiyama-Michael reactions using a catalytic amount of DBU under solvent- and metal-free conditions. <i>Tetrahedron Letters</i> , 2005, 46, 507-508.	0.7	44
18	An efficient synthesis of ferrocenyl substituted 3-cyanopyridine derivatives under ultrasound irradiation. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 1356-1360.	0.8	43

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19	Copper-catalyzed trifluoromethylation of styrene derivatives with CF ₃ SO ₂ Na. <i>Organic Chemistry Frontiers</i> , 2017, 4, 1872-1875.	2.3	43
20	A novel base-promoted synthesis of β -indolylketones via a three-component condensation under ultrasonic irradiation. <i>Tetrahedron</i> , 2005, 61, 10552-10558.	1.0	41
21	Combining Fluoroalkylation and Defluorination to Enable Formal [3 + 2 + 1] Heteroannulation by Using Visible-Light Photoredox Organocatalysis. <i>Organic Letters</i> , 2018, 20, 2749-2752.	2.4	41
22	Ionic liquid [omim][PF ₆] as an efficient and recyclable reaction media for the cyanosilylation of aldehydes without Lewis acid or any special activation. <i>Tetrahedron Letters</i> , 2005, 46, 3137-3139.	0.7	40
23	One-pot chemoenzymatic syntheses of enantiomerically-enriched O-acetyl cyanohydrins from aldehydes in ionic liquid. <i>Green Chemistry</i> , 2008, 10, 283.	4.6	40
24	Direct synthesis of ester-containing indium homoenolate and its application in palladium-catalyzed cross-coupling with aryl halide. <i>Chemical Communications</i> , 2011, 47, 4778.	2.2	40
25	Ultrasound-irradiated Michael addition of amines to ferrocenylones under solvent-free and catalyst-free conditions at room temperature. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 2989-2995.	0.8	39
26	Synthesis of β -oxaterpenoids and Its Application in the Total Synthesis of (\pm)-Moluccanic Acid Methyl Ester. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10619-10623.	7.2	39
27	Synthesis of Alkyl Indium Reagents by Using Unactivated Alkyl Chlorides and Their Applications in Palladium-Catalyzed Cross-Coupling Reactions with Aryl Halides. <i>Organic Letters</i> , 2018, 20, 1902-1905.	2.4	37
28	Indium (Zinc)-Copper-Mediated Barbier-Type Alkylation Reaction of Nitrones in Water: Synthesis of Amines and Hydroxylamines. <i>Organic Letters</i> , 2009, 11, 1209-1212.	2.4	36
29	Zn/InCl ₃ -Mediated Pinacol Cross-Coupling Reactions of Aldehydes with α,β -Unsaturated Ketones in Aqueous Media. <i>Organic Letters</i> , 2009, 11, 2213-2215.	2.4	36
30	Three-component heteroannulation for tetrasubstituted furan construction enabled by successive defluorination and dual sulfonylation relay. <i>Green Chemistry</i> , 2021, 23, 935-941.	4.6	34
31	Ultrasound-promoted alkynylation of ethynylbenzene to ketones under solvent-free condition. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 161-163.	3.8	33
32	I-MCR-Ullmann cascade toward furo[2,3-b]indole scaffold. <i>Tetrahedron</i> , 2011, 67, 6375-6381.	1.0	33
33	Preparation of Functionalized Organoindium Reagents by Means of Magnesium Insertion into Organic Halides in the Presence of InCl ₃ at Room Temperature. <i>Chemistry - A European Journal</i> , 2013, 19, 828-833.	1.7	33
34	Indium/copper-mediated conjugate addition of unactivated alkyl iodides to α,β -unsaturated carbonyl compounds in water. <i>Tetrahedron Letters</i> , 2009, 50, 1051-1054.	0.7	32
35	Palladium-Catalyzed Cross-Coupling of Indium Homoenolate with Aryl Halide with Wide Functional Group Compatibility. <i>Organic Letters</i> , 2011, 13, 422-425.	2.4	31
36	Oxidant-directed chemoselective sulfonylation and sulfonyloximation of alkenes <i>via</i> cleaving the C=S bond in TosMIC. <i>Organic Chemistry Frontiers</i> , 2019, 6, 835-840.	2.3	29

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37	An efficient synthesis of ferrocenyl substituted 1,5-diketone and cyclic α,β -unsaturated ketones under ultrasound irradiation. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 1843-1848.	0.8	28
38	Selective Quadruple C(sp ³)-F Functionalization of Polyfluoroalkyl Ketones. <i>IScience</i> , 2020, 23, 101259.	1.9	27
39	Copper(II)-Mediated Ring Opening/Alkynylation of Tertiary Cyclopropanols by Using Nonmodified Terminal Alkynes. <i>Organic Letters</i> , 2020, 22, 5456-5461.	2.4	27
40	Palladium-catalyzed direct reductive cross-coupling of aryltrimethylammonium salts with aryl bromides. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4865-4870.	2.3	26
41	Indium(III)-Catalyzed Hydration and Hydroalkoxylation of α,β -Unsaturated Ketones in Aqueous Media. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 2632-2637.	2.1	25
42	Nickel-Catalyzed Direct Cross-Coupling of Aryl Sulfonium Salt with Aryl Bromide. <i>Organic Letters</i> , 2022, 24, 1953-1957.	2.4	25
43	Nickel-catalyzed direct cross-coupling of heterocyclic phosphonium salts with aryl bromides. <i>Organic Chemistry Frontiers</i> , 2021, 8, 6931-6936.	2.3	24
44	Synthesis of di(hetero)aryl sulfides by defluorinative sulfenylation of polyfluoroalkyl ketones with sodium sulfinates or arylsulfonyl chlorides. <i>Chemical Communications</i> , 2020, 56, 8699-8702.	2.2	23
45	Stereoselective Preparation of Polyfunctional Alkenylindium(III) Halides and Their Cross-Coupling with Unsaturated Halides. <i>Chemistry - A European Journal</i> , 2015, 21, 7061-7065.	1.7	22
46	Polyfunctional Lithium, Magnesium, and Zinc Alkenyl Reagents as Building Blocks for the Synthesis of Complex Heterocycles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5332-5336.	7.2	22
47	Bismuth-Mediated Diastereoselective Allylation Reaction of Carbonyl Compounds with Cyclic Allylic Halides or Cinnamyl Halide. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 542-549.	2.1	21
48	Nickel-Catalyzed Diastereoselective Reductive Cross-Coupling of Disubstituted Cycloalkyl Iodides with Aryl Iodides. <i>Organic Letters</i> , 2021, 23, 5118-5122.	2.4	20
49	Cu-Catalyzed Preparation of Aryl and Heteroaryl Magnesium and Zinc Reagents Using Mg/LiCl. <i>ACS Catalysis</i> , 2015, 5, 2324-2328.	5.5	19
50	Polycyclic heteroaromatic ring construction driven by silver/cobalt co-catalyzed desulfonylative and defluorinative fragment-recombination of enol nonaflates with amidines. <i>Chemical Communications</i> , 2018, 54, 12722-12725.	2.2	19
51	Chemo- and Regioselective Ring Construction Driven by Visible-Light Photoredox Catalysis: an Access to Fluoroalkylated Oxazolidines Featuring an All-Substituted Carbon Stereocenter. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 4082-4090.	2.1	19
52	Preparation of Alkyl Indium Reagents by Iodine-Catalyzed Direct Indium Insertion and Their Applications in Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2019, 84, 3017-3023.	1.7	19
53	Iron(0)-Mediated Reformatsky Reaction for the Synthesis of β -Hydroxyl Carbonyl Compounds. <i>Organic Letters</i> , 2019, 21, 5873-5878.	2.4	18
54	Lead-Mediated Highly Diastereoselective Allylation of Aldehydes with Cyclic Allylic Halides. <i>Journal of Organic Chemistry</i> , 2019, 84, 5348-5356.	1.7	18

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55	Synthesis of Polycyclic Furan and Chromene Derivatives <i>via</i> Cascade Reactions Enabled by Cleavage of Multiple C(sp ³)–F Bonds. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 4736-4743.	2.1	18
56	Alkali Salt of L-Proline as an Efficient and Practical Catalyst for the Cyanosilylation of a Wide Variety of Carbonyl Compounds Under Solvent-Free Conditions. <i>Synthetic Communications</i> , 2009, 39, 775-791.	1.1	17
57	Highly Diastereoselective Preparation of Aldol Products Using New Functionalized Allylic Aluminum Reagents. <i>Organic Letters</i> , 2014, 16, 956-959.	2.4	17
58	Chromium(III)-Catalyzed Addition of Water and Alcohol to α,β -Unsaturated Ketones for the Synthesis of β -Hydroxyl and β -Alkoxy Ketones in Aqueous Media. <i>Journal of Organic Chemistry</i> , 2018, 83, 10898-10907.	1.7	16
59	HP(O)Ph ₂ /H ₂ O-promoted hydrodefluorination of trifluoromethyl alkenes. <i>Green Chemistry</i> , 2022, 24, 2777-2782.	4.6	16
60	Metallic salt-catalyzed direct indium insertion into alkyl iodides and their applications in cross-coupling reactions. <i>Organic Chemistry Frontiers</i> , 2019, 6, 313-318.	2.3	15
61	Iron-mediated highly diastereoselective allylation of carbonyl compounds with cyclic allylic halides. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1581-1586.	2.3	15
62	Indium-mediated difunctionalization of iodoalkyl-tethered unactivated alkenes <i>via</i> an intramolecular cyclization and an ensuing palladium-catalyzed cross-coupling reaction with aryl halides. <i>Organic Chemistry Frontiers</i> , 2020, 7, 2703-2709.	2.3	15
63	Palladium-Catalyzed Sonogashira Coupling of a Heterocyclic Phosphonium Salt with a Terminal Alkyne. <i>Organic Letters</i> , 2022, 24, 4919-4924.	2.4	14
64	Palladium-catalyzed defluorinative alkylation of polyfluoroalkyl ketones with alkynes for the synthesis of fluorinated fused furans. <i>Organic Chemistry Frontiers</i> , 2021, 8, 572-578.	2.3	13
65	Transition-metal-free hydroamination/defluorination/cyclization of perfluoroalkyl alkynes with amidines. <i>Organic Chemistry Frontiers</i> , 0, , .	2.3	13
66	Defluorinative phosphorylation of perfluoroalkyl ketones: synthesis of fluoroalkylated and phosphorylated furan derivatives. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1503-1509.	2.3	11
67	Three-Component Bisannulation for the Synthesis of Trifluoromethylated Tetracyclic <i>Aza</i> -Aromatics through Six C(sp ³)–F Bond Cleavage and Four C–N Bond Formation. <i>Journal of Organic Chemistry</i> , 2021, 86, 8236-8247.	1.7	10
68	Expedient Preparation of Aryllithium and Arylzinc Reagents from Aryl Chlorides Using Lithium 4,4'-Di- <i>tert</i> -Butylbiphenylide and Zinc(II) Chloride. <i>Synthesis</i> , 2015, 47, 2617-2630.	1.2	9
69	Stereoselective synthesis of fluoroalkylated (<i>Z</i>)-alkene <i>via</i> nickel-catalyzed and iron-mediated hydrofluoroalkylation of alkynes. <i>Organic Chemistry Frontiers</i> , 2021, 8, 6377-6383.	2.3	9
70	Selective C(sp ³)–H Functionalization of Alkyl Esters with <i>N</i> – <i>S</i> – <i>O</i> Nucleophiles Using Perfluoroalkyl Iodide as Oxidant. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 3388-3394.	2.1	7
71	Cobalt-catalyzed cross-coupling of nitrogen-containing heterocyclic phosphonium salts with arylmagnesium reagents. <i>Tetrahedron Letters</i> , 2022, 92, 153662.	0.7	7
72	Bismuth trichloride-catalyzed oxy-Michael addition of water and alcohol to α,β -unsaturated ketones. <i>Chinese Chemical Letters</i> , 2020, 31, 1297-1300.	4.8	4

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73	Titanium(IV)-Mediated Ring-Opening/Dehydroxylative Cross-Coupling of Diaryl-Substituted Methanols with Cyclopropanol Derivatives. <i>Journal of Organic Chemistry</i> , 2021, 86, 15753-15760.	1.7	4
74	Regioselective synthesis of 6-nitroindole derivatives from enamines and nitroaromatic compounds via transition metal-free C-C and C-N bond formation. <i>Organic and Biomolecular Chemistry</i> , 2022, , .	1.5	4
75	Palladium-catalyzed cross-coupling of alkylindium reagent with diaryliodonium salt. <i>Tetrahedron Letters</i> , 2022, 95, 153729.	0.7	4
76	In(III)-TMSBr-Catalyzed Cascade Reaction of Diarylalkynes with Acrylates for the Synthesis of Aryldihydronaphthalene Derivatives. <i>Molecules</i> , 2018, 23, 979.	1.7	3
77	Cesium carbonate-catalyzed indium insertion into alkyl iodides and their synthetic utilities in cross-coupling reactions. <i>Applied Organometallic Chemistry</i> , 2019, 33, e5110.	1.7	3
78	Copper(II)-catalyzed preparation of alkylindium compounds and applications in cross-coupling reactions both in aqueous media. <i>Tetrahedron Letters</i> , 2019, 60, 151288.	0.7	3
79	Regioselective (Hetero)aryl C-H Thianthrenation and Late-Stage Transformations. <i>CheM</i> , 2019, 5, 1025-1027.	5.8	3
80	An efficient Bi/NH ₄ I-mediated addition reaction for the highly diastereoselective synthesis of homoallylic alcohols in aqueous media. <i>Chinese Chemical Letters</i> , 2020, 31, 391-395.	4.8	3
81	Cobalt(II)-catalyzed preparation of alkylindium reagents and applications in cross-coupling with aryl halides. <i>Catalysis Communications</i> , 2019, 132, 105824.	1.6	2
82	An efficient synthesis of 4,5-diaryl-3,4-dihydropyrimidin-2(1H)-one via a cesium carbonate-promoted direct condensation of 1-aryl-2-propanone with 1,1-(arylmethylene)diurea. <i>RSC Advances</i> , 2020, 10, 30062-30068.	1.7	2
83	Iron(III)-catalyzed difluoroalkylation of aryl alkynes with difluoroenol silyl ether in the presence of trimethylsilyl chloride. <i>Advanced Synthesis and Catalysis</i> , 0, , .	2.1	2
84	Efficient Synthesis of Ferrocenylcyclohexenone Under Solvent-Free Conditions. <i>Synthetic Communications</i> , 2009, 39, 3924-3933.	1.1	1
85	An Environmentally Friendly Procedure for Mukaiyama Aldol and Mukaiyama-Michael Reactions Using a Catalytic Amount of DBU under Solvent- and Metal-Free Conditions.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
86	Ionic Liquid [omim][PF ₆] as an Efficient and Recyclable Reaction Media for the Cyanosilylation of Aldehydes Without Lewis Acid or Any Special Activation.. <i>ChemInform</i> , 2005, 36, no.	0.1	0