

Zhenlei Song

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5854801/publications.pdf>

Version: 2024-02-01

57
papers

1,108
citations

361413

20
h-index

454955

30
g-index

61
all docs

61
docs citations

61
times ranked

744
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in C-Si bond activation via a direct transition metal insertion. <i>Tetrahedron Letters</i> , 2015, 56, 1466-1473.	1.4	85
2	Rhodium-Catalyzed Reaction of Silacyclobutanes with Unactivated Alkynes to Afford Silacyclohexenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4695-4699.	13.8	79
3	Unique Steric Effect of Geminal Bis(silane) To Control the High <i>Exo</i> -selectivity in Intermolecular Diels-Alder Reaction. <i>Journal of the American Chemical Society</i> , 2016, 138, 1877-1883.	13.7	68
4	Prins Cyclization of Bis(silyl) Homoallylic Alcohols to Form 2,6-cis-Tetrahydropyrans Containing a Geometrically Defined Exocyclic Vinylsilane: Efficient Synthesis of Ring B of the Bryostatins. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5367-5370.	13.8	66
5	Total Synthesis of Bryostatin-8 Using an Organosilane-Based Strategy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 942-946.	13.8	39
6	Recent Progress in the Transition-Metal-Catalyzed Activation of Si-Si Bonds To Form C-Si Bonds. <i>Chemistry - A European Journal</i> , 2019, 25, 2407-2422.	3.3	37
7	Sakurai Reaction of 3,3-Bis(silyl) Silyl Enol Ethers with Acetals Involving Selective Desilylation of the Geminal Bis(silane). <i>Concise Synthesis of Nematocidal Oxy lipid</i> . <i>Organic Letters</i> , 2013, 15, 1068-1071.	4.6	33
8	Efficient Approach to 3,3-Bissilyl Carbonyl and Enol Derivatives via Retro-[1,4] Brook Rearrangement of 3-Silyl Allyloxysilanes. <i>Organic Letters</i> , 2010, 12, 5298-5301.	4.6	30
9	Total Synthesis of (-)-Exiguolide. <i>Organic Letters</i> , 2015, 17, 4706-4709.	4.6	28
10	TMSBr/InBr ₃ -promoted Prins cyclization/homobromination of dienyl alcohol with aldehyde to construct cis-THP containing an exocyclic E-alkene. <i>Chemical Communications</i> , 2015, 51, 14925-14928.	4.1	27
11	[1,5]-Anion Relay/[2,3]-Wittig Rearrangement of 3,3-Bis(silyl) Allyl Enol Ethers: Synthesis of Useful Vinyl Bis(silane) Species. <i>Organic Letters</i> , 2012, 14, 1094-1097.	4.6	26
12	Bissilyl Enal: A Useful Linchpin for Synthesis of Functionalized Vinylsilane Species by Anion Relay Chemistry. <i>Organic Letters</i> , 2012, 14, 158-161.	4.6	26
13	Chemoselective deoxygenation of ether-substituted alcohols and carbonyl compounds by B(C ₆ F ₅) ₃ -catalyzed reduction with (HMe ₂ SiCH ₂) ₂ . <i>Chemical Communications</i> , 2018, 54, 4834-4837.	4.1	26
14	3-Silaazetidines: An Unexplored yet Versatile Organosilane Species for Ring Expansion toward Silaazacycles. <i>Journal of the American Chemical Society</i> , 2021, 143, 11141-11151.	13.7	26
15	Ring Expansion of Silacyclobutanes with Allenates to Selectively Construct 2- or 3-(<i>E</i>)-Enoate-Substituted Silacyclohexenes. <i>ACS Catalysis</i> , 2022, 12, 5185-5196.	11.2	26
16	Addition of TMS-Substituted Oxiranyl Anions to Acylsilanes. A Highly Stereoselective Approach to Tetrasubstituted (<i>Z</i>)- β -Hydroxy- α -TMS Silyl Enol Ethers. <i>Organic Letters</i> , 2011, 13, 1440-1443.	4.6	24
17	Challenges in the synthesis of a unique mono-carboxylic acid antibiotic, (+)-zincophorin. <i>Natural Product Reports</i> , 2009, 26, 560.	10.3	23
18	Me ₃ Si-SiMe ₂ [<i>o</i>]-CON(<i>i</i> Pr) ₂ -C ₆ H ₄ : An Unsymmetrical Disilane Reagent for Regio- and Stereoselective Bis-silylation of Alkynes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4769-4773.	13.8	23

#	ARTICLE	IF	CITATIONS
19	Geminal Bis(silyl) Enal: A Versatile Scaffold for Stereoselective Synthesizing C ³ ,O ¹ -Disilylated Allylic Alcohols Based upon Anion Relay Chemistry. <i>Organic Letters</i> , 2013, 15, 1104-1107.	4.6	22
20	Rhodium-Catalyzed Reaction of Silacyclobutanes with Unactivated Alkynes to Afford Silacyclohexenes. <i>Angewandte Chemie</i> , 2019, 131, 4743-4747.	2.0	22
21	Asymmetric total synthesis and antidepressant activity of ($\hat{\alpha}$)-sila-mesembranol bearing a silicon stereocenter. <i>Organic Chemistry Frontiers</i> , 2021, 8, 5941-5947.	4.5	22
22	[1,5]-Brook rearrangement: an overlooked but valuable silyl migration to synthesize configurationally defined vinylsilane. The unique steric and electronic effects of geminal bis(silane). <i>Chemical Communications</i> , 2013, 49, 8961.	4.1	21
23	1,4-Hydroiodination of Dienyl Alcohols with TMSI To Form Homoallylic Alcohols Containing a Multisubstituted Z-Alkene and Application to Prins Cyclization. <i>Organic Letters</i> , 2015, 17, 1846-1849.	4.6	21
24	Total synthesis of ($\hat{\alpha}$)-exiguolide via an organosilane-based strategy. <i>Chemical Communications</i> , 2015, 51, 8484-8487.	4.1	21
25	Exploration of Versatile Geminal Bis(silane) Chemistry. <i>Synlett</i> , 2013, 24, 139-144.	1.8	19
26	[1,5]-Anion Relay via Intramolecular Proton Transfer To Generate 3,3-Bis(silyl) Allyloxy Lithium: A Useful Scaffold for Syn-Addition to Aldehydes and Ketones. <i>Organic Letters</i> , 2014, 16, 1084-1087.	4.6	19
27	Geminal bis(silane)-controlled regio- and stereoselective oxidative Heck reaction of enol ethers with terminal alkenes to give push-pull 1,3-dienes. <i>Chemical Communications</i> , 2015, 51, 15546-15549.	4.1	19
28	Chiral crotyl geminal bis(silane): a useful reagent for asymmetric Sakurai allylation by selective desilylation-enabled chirality transfer. <i>Chemical Communications</i> , 2017, 53, 3078-3081.	4.1	19
29	Synthesis of Functionalized $\hat{3}$ -Lactone via Sakurai <i>exo</i> -Cyclization/Rearrangement of 3,3-Bis(silyl) Enol Ester with a Tethered Acetal. <i>Organic Letters</i> , 2015, 17, 1553-1556.	4.6	17
30	Chemoselective Reduction of Sterically Demanding <i>N,N</i> -Diisopropylamides to Aldehydes. <i>Journal of Organic Chemistry</i> , 2018, 83, 1687-1700.	3.2	15
31	Visible light-promoted radical cyclization of silicon-tethered alkyl iodide and phenyl alkyne. An efficient approach to synthesize benzosilolines. <i>Chemical Communications</i> , 2016, 52, 6189-6192.	4.1	12
32	Total Synthesis of Bryostatin...8 Using an Organosilane-Based Strategy. <i>Angewandte Chemie</i> , 2018, 130, 954-958.	2.0	12
33	<i>exo/endo</i> Selectivity Control in Diels-Alder Reactions of Geminal Bis(silyl) Dienes: Theoretical and Experimental Studies. <i>Journal of Organic Chemistry</i> , 2019, 84, 3940-3952.	3.2	12
34	[1,4]-Silyl Migration: Multicomponent Synthesis of $\hat{1}$ -Thioketones through Chemoselective Transformation of Esters to Ketones with Organolithium Reagents. <i>Chemistry - A European Journal</i> , 2013, 19, 17589-17594.	3.3	10
35	Recent efforts to construct the B-ring of bryostatins. <i>Chemical Communications</i> , 2013, 49, 10211.	4.1	10
36	The development of an Amber-compatible organosilane force field for drug-like small molecules. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12582-12591.	2.8	10

#	ARTICLE	IF	CITATIONS
37	(HMe ₂ SiCH ₂) ₂ : A Useful Reagent for B(C ₆ F ₅) ₃ -Catalyzed Reduction of Lactonization of Keto Acids: Concise Syntheses of (S)-cis-Whisky and (S)-cis-Cognac Lactones. <i>Synlett</i> , 2017, 28, 2453-2459.	1.8	8
38	Me ₃ Si-SiMe ₂ [CON(Pr) ₂] ⁺ C ₆ H ₄ : An Unsymmetrical Disilane Reagent for Regio- and Stereoselective Bis(silylation) of Alkynes. <i>Angewandte Chemie</i> , 2018, 130, 4859-4863.	2.0	8
39	Synthetic Approaches for the Construction of Five- and Six-Membered Silazacycles. <i>Synthesis</i> , 2022, 54, 2749-2764.	2.3	8
40	Enantioselective synthesis of crotyl geminal bis(silane) and its usage for asymmetric Sakurai allylation of acetals. <i>Tetrahedron</i> , 2017, 73, 3707-3713.	1.9	7
41	One-Pot Twofold Unsymmetrical C-Si Bond 2,6-Bifunctionalization of Arenes via Sequential [1,4]-Csp ² to O-Silyl Migration. <i>Journal of Organic Chemistry</i> , 2019, 84, 12583-12595.	3.2	7
42	Regioselective 1,4- over 1,2-addition of 3,3-bis(silyl) allyloxy lithium to enals, enones and enoates. The remarkable β -effect of silicon. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 3021-3025.	2.8	6
43	Three-component reaction to synthesize E-vinyl silyl anti-1,2-diols via sequential [1,4]-O-to-O/[1,4]-C-to-O silyl migrations. <i>Organic Chemistry Frontiers</i> , 2018, 5, 2035-2039.	4.5	6
44	Intramolecular Sakurai Allylation of Geminal Bis(silyl) Enamide with Indolenine. A Diastereoselective Cyclization To Form Functionalized Hexahydropyrido[3,4-b]Indole. <i>Organic Letters</i> , 2021, 23, 124-128.	4.6	6
45	Asymmetric alkylation or silylation of (S)-(β)-diphenylprolinol-derived β -silyl amide to synthesize optically pure β -monosilyl or bis(silyl) amides. <i>Tetrahedron Letters</i> , 2016, 57, 2861-2864.	1.4	5
46	Tunable reactivity of geminal bis(silyl) enol derivatives leading to selective exo-IEDDA or Sakurai allylation with a β,β -unsaturated ketoester. <i>Chemical Communications</i> , 2016, 52, 10137-10140.	4.1	5
47	Total Synthesis of Bryostatin 8 and (S)-Exiguolide: Applications of an Organosilane Strategy. <i>Synlett</i> , 2019, 30, 753-764.	1.8	5
48	Diverse synthesis of the C ring fragment of bryostatins via Zn/Cu-promoted conjugate addition of β -hydroxy iodide with enone. <i>Chinese Chemical Letters</i> , 2021, 32, 1-4.	9.0	5
49	Asymmetric retro-[1,4]-Brook rearrangement of 3-silyl allyloxysilanes via chirality transfer from silicon to carbon. <i>RSC Advances</i> , 2019, 9, 26209-26213.	3.6	4
50	O ₂ -Assisted Four-Component Reaction of Vinyl Magnesium Bromide with Chiral N-tert-Butanesulfinyl Imines To Form syn-1,3-Amino Alcohols. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24644-24649.	13.8	4
51	Transformation of the B Ring to the C Ring of Bryostatins by Csp ³ -H Amination and Z to E Isomerization. <i>Organic Letters</i> , 2017, 19, 5232-5235.	4.6	3
52	Addition/substitution Approach of TsNHCH ₂ SiMe ₂ CH ₂ Cl with Isocyanate or Isothiocyanate to Construct 1,3,5-Diazasilinan-2-one or 1,3,5-Thiazasilinan-2-imine. <i>Synthesis</i> , 0, , .	2.3	3
53	Synthesis of Silacyclohexanones from Divinylsilanes and Allylamines by a Rh-Catalyzed Cyclization. <i>Organic Letters</i> , 2022, 24, 726-730.	4.6	3
54	Synthesis of unsymmetrical diarylmethanols via C-Si bond bifunctionalization enabled by sequential [1,4]-Csp ² to O-silyl migration. <i>Organic Chemistry Frontiers</i> , 2020, 7, 543-547.	4.5	2

#	ARTICLE	IF	CITATIONS
55	ArNMeCH(SiMe ₃) ₂ : a useful precursor of formal $\dot{\pm}$ -aminoalkyl diradicals in visible-light-mediated homo- and hetero-diaddition with alkenes. <i>Chemical Communications</i> , 2020, 56, 7487-7490.	4.1	1
56	Innentitelbild: Me ₃ Si ⁺ SiMe ₂ [<i>o</i> -CON(<i>i</i> -Pr) ₂] ⁻ C ₆ H ₄ ; An Unsymmetrical Disilane Reagent for Regio- and Stereoselective Bis-silylation of Alkynes (<i>Angew. Chem.</i>)	2.0	0
57	O ₂ -Assisted Four-component Reaction of Vinyl Magnesium Bromide with Chiral <i>N</i> -tert-Butanesulfinyl Imines To Form α , β -Amino Alcohols. <i>Angewandte Chemie</i> , 2021, 133, 24849.	2.0	0