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The mechanism of 1,2-addition of disilene and silene. 1.
Water and alcohol addition

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Journal of the American Chemical Society, 2001, 123, 6629-38.

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#	Paper	IF	Citations
45	Role of initial complexes in 1,2-addition reactions of disilene derivatives. <i>Molecular Physics</i> , 2002 , 100, 1703-1712	1.7	8
44	Mechanism of the addition of nonenolizable aldehydes and ketones to (Di)metallenes (R(2)X=YR(2), X = Si, Ge Y = C, Si, Ge): a density functional and multiconfigurational perturbation theory study. <i>Journal of the American Chemical Society</i> , 2002 , 124, 13306-21	16.4	38
43	Structures and Stabilities of Heteroatom-Substituted Disilenes and Related Compounds: Four-Center π Systems. <i>Organometallics</i> , 2002 , 21, 4212-4216	3.8	15
42	Addition of Nucleophiles to Silenes. A Theoretical Study of the Effect of Substituents on Their Kinetic Stability. <i>Organometallics</i> , 2002 , 21, 3930-3939	3.8	28
41	Methylamine Adsorption on and Desorption from Si(100). <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5491-5502	3.4	45
40	Steric Effects on Silene Reactivity. The Effects of ortho-Methyl Substituents on the Kinetics and Mechanisms of the Reactions of 1,1-Diarylsilenes with Nucleophiles. <i>Organometallics</i> , 2003 , 22, 5518-5525	3.8	8
39	Isolable silylene, disilenes, trisilaallene, and related compounds. <i>Journal of Organometallic Chemistry</i> , 2004 , 689, 4475-4488	2.3	148
38	Two Geminal Delocalizations Affect the Structural Preference of Disilyne and Its Derivatives. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 5710-5714	2.8	15
37	Ab Initio Study of the Photochemistry of <i>c</i> -C ₂ H ₂ Si. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 7301-7305	2.8	12
36	1,2-Addition Reaction of Monosubstituted Disilenes: An Ab Initio Study. <i>Organometallics</i> , 2004 , 23, 5768-5778	3.5	18
35	Direct Detection of 1,1-Diphenyl-2-neopentylsilene and the Effects of Solvent Polarity on Its Reactivity with Nucleophiles. <i>Organometallics</i> , 2005 , 24, 2307-2318	3.8	10
34	Progress in the Chemistry of Stable Disilenes. <i>Advances in Organometallic Chemistry</i> , 2006 , 54, 73-148	3.8	199
33	A combined experimental and theoretical study of the kinetics and mechanism of the addition of alcohols to electronically stabilized silenes: a new mechanism for the addition of alcohols to the Si=C bond. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10772-83	16.4	26
32	From Silaallene to Cyclotrisilanylidene. <i>Organometallics</i> , 2006 , 25, 1480-1484	3.8	38
31	Theoretical proposal of planar silicon oligomer and silicon benzene. <i>Computational Materials Science</i> , 2006 , 36, 30-35	3.2	11
30	Ab initio quantum chemical investigation of several isomers of anionic Si ₆ . <i>Chemical Physics Letters</i> , 2006 , 418, 475-480	2.5	16
29	Theoretical study of the hydroboration reaction of disilenes with borane. <i>Chemical Physics Letters</i> , 2006 , 421, 36-41	2.5	11

28	The Relative Stabilities of 1,3-Diphospha-2-silaallene and Some of Its Isomers. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 4570-4576	2.3	9
27	Direct detection of methylphenylgermylene and 1,2-dimethyl-1,2-diphenyldigermene [Kinetic studies of their reactivities in solution. <i>Canadian Journal of Chemistry</i> , 2006 , 84, 934-948	0.9	17
26	Silylenes: a unified picture of their stability, acid-base and spin properties, nucleophilicity, and electrophilicity via computational and conceptual density functional theory. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 10815-23	2.8	39
25	Stable cyclic silenes from reaction of disilenides with carboxylic acid chlorides. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3349-52	16.4	53
24	Stabile cyclische Silene durch Reaktion von Disileniden mit Carbonsdichloriden. <i>Angewandte Chemie</i> , 2007 , 119, 3413-3416	3.6	29
23	Reactions of trisilaallene and 2-germadisilaallene with various reagents. <i>Journal of Organometallic Chemistry</i> , 2007 , 692, 263-270	2.3	25
22	A new mechanism for the addition of alcohols to disilenes revealed by DFT and ONIOM calculations. <i>Journal of Organometallic Chemistry</i> , 2008 , 693, 1335-1345	2.3	9
21	Metal-Substituted Disilynes with Linear Forms. <i>Organometallics</i> , 2008 , 27, 4829-4832	3.8	9
20	Mechanism of Water Addition to Silatriafulvenes and Silapentafulvenes. <i>Organometallics</i> , 2008 , 27, 2723-2729	3.8	7
19	Theoretical Prediction of the N-H and O-H Bonds Cleavage Catalyzed by the Single-Walled Silicon Carbide Nanotube. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16736-16740	3.8	38
18	Formation and hydrogen bonding of a novel POSS-trisilanol. <i>Dalton Transactions</i> , 2009 , 163-7	4.3	38
17	Unsuccessful attempts to add alcohols to transient 2-amino-2-siloxy-silenes - leading to a new benign route for base-free alcohol protection. <i>Dalton Transactions</i> , 2010 , 39, 9379-85	4.3	8
16	Mechanisms for the Reaction of Water, Butadiene, and Palladium Complex with 1,2-Dimetallacyclohexene (R ₂ M ₂ MR ₂ , M = C, Si, Ge, Sn, Pb). A Theoretical Study. <i>Organometallics</i> , 2011 , 30, 4862-4872	3.8	7
15	Theoretical investigation of the mechanisms for the reaction of fused tricyclic dimetallenes containing highly strained E ₂ E (E = C, Si, Ge, Sn, and Pb) double bonds. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 4222-32	2.8	10
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13	Theoretical study on the addition reactions of MeOH, PhOH and PhSH to silastannenes. <i>Computational and Theoretical Chemistry</i> , 2015 , 1058, 12-20	2	2
12	Comparative theoretical study on the addition reactions of MeOH to silabenzenes and germabenzenes. <i>Computational and Theoretical Chemistry</i> , 2016 , 1078, 88-95	2	0
11	Computational Investigation on the Role of Disilene Substituents Toward NO Activation. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 401-417	2.8	9

10	Temperature Dependence in the Terahertz Spectrum of Nicotinamide: Anharmonicity and Hydrogen-Bonded Network. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 2558-2564	2.8	16
9	Reactivity of sulfonyl-containing compounds with ditetrelenes. <i>Dalton Transactions</i> , 2017 , 46, 15451-15457	4.7	0
8	Intermolecular hydrogen bond stretching vibrations observed in terahertz spectra of crystalline vitamins. <i>CrystEngComm</i> , 2018 , 20, 1960-1969	3.3	15
7	Addition Reactions of H ₂ O to Germastannenes: A Computational Study. <i>Russian Journal of Physical Chemistry A</i> , 2018 , 92, 1699-1705	0.7	2
6	The Dual Role of Gold(I) Complexes in Photosensitizer-Free Visible-Light-Mediated Gold-Catalyzed 1,2-Difunctionalization of Alkynes: A DFT Study. <i>Chemistry - A European Journal</i> , 2018 , 24, 14119-14126	4.8	19
5	Comparative Theoretical Study on the Reactivity of Digermenes and Disilenes in Addition Reactions. <i>Russian Journal of Physical Chemistry A</i> , 2020 , 94, 800-805	0.7	1
4	Intermolecular Interactions Involving Heavy Alkenes HSi=TH (T = C, Si, Ge, Sn, Pb) with HO and HCl: Tetrel Bond and Hydrogen Bond. <i>ACS Omega</i> , 2020 , 5, 30210-30225	3.9	5
3	Temperature-Dependent Low-Frequency Vibrations of Thiamine Crystal Containing Hydrated Ions. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 1837-1844	2.8	1
2	NH bond activation of ammonia and amines by ditetrelenes: key insights into the stereochemistry of nucleophilic addition. <i>Dalton Transactions</i> , 2021 , 50, 17734-17750	4.3	0
1	Electronic Effects of Substituents on the Reactivity of Silenes: A Computational Analysis.		0