Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Bonding and Stability of Dinitrogen-Bonded Donor Base-Stabilized Si(0)/Ge(0) Species [(cAAC^{Me}-Si/Ge)$_2$(N_2)]: EDA-NOCV Analysis

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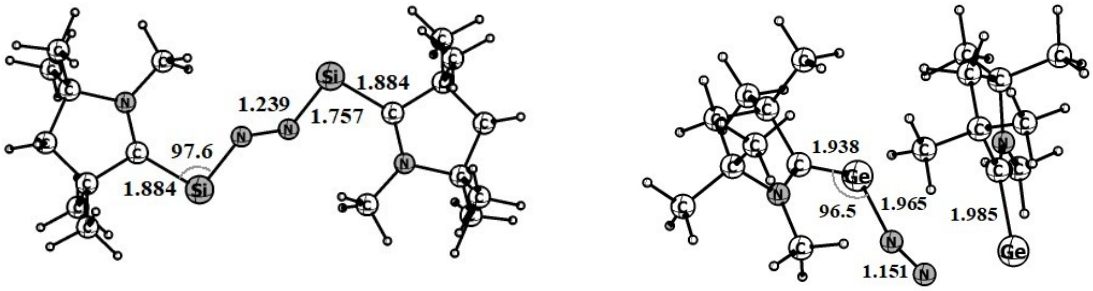

Figure S1: Optimized geometries of $(cAAC\text{-}Si)_2(N_2)$ (**1**) and $(cAAC\text{-}Ge)_2(N_2)$ (**2**) in triplet states at the BP86-D3(BJ)/TZ2P level of theory.

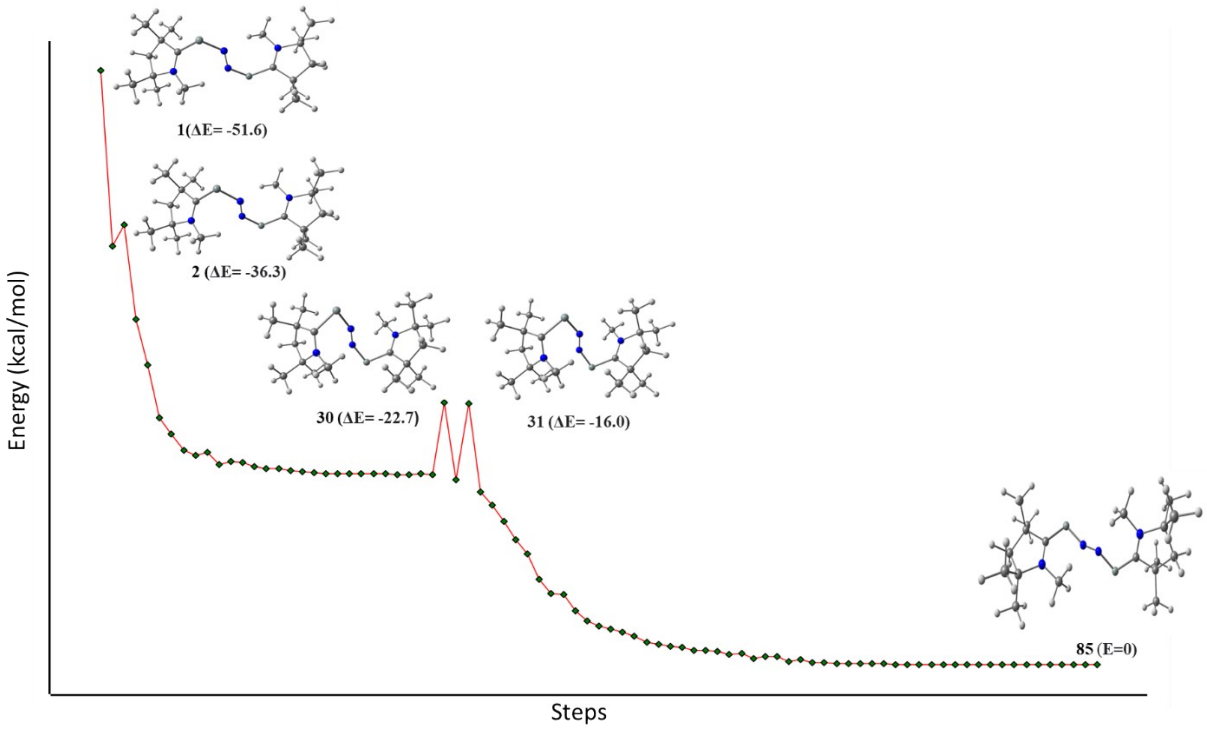

Figure S2. Energy vs n-Steps plot with geometries of the key steps of compound $(cAAC\text{-}Si)_2(N_2)$ (**1**).

We tried to optimize the geometries of $(cAAC\text{-}Si)_2(N_2)$ (**1**) and $(cAAC\text{-}Ge)_2(N_2)$ (**2**) compounds with the ligands trans to each other. In case of compound **1** the ligands remained trans to each other throught the optimization steps, though there were slight changes in the final low energy geometry. However, for compound **2**, the attempt to optimize trans geometry interestingly resulted in a final cis geometry. The plots of energy vs optimization steps shown in Figures S2 and S3 illustrate the changes in the geomteries at key steps (high energy local

minima) until the final global minima (optimized geometry). The energies of the geometries at key steps (Figures S2-S3) were calculated relative to the energy of the optimized geomtery.

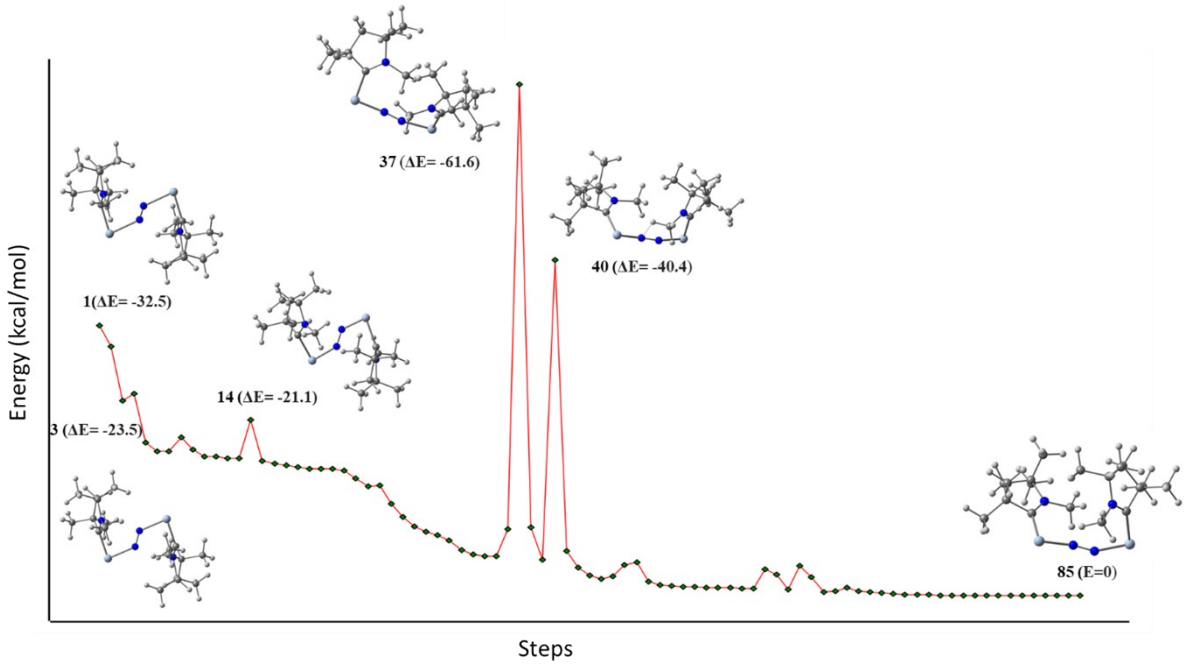

Figure S3. Energy vs n-Steps plot with geometries of the key steps of compound $(cAAC\text{-}Ge)_2(N_2)$ (**2**).

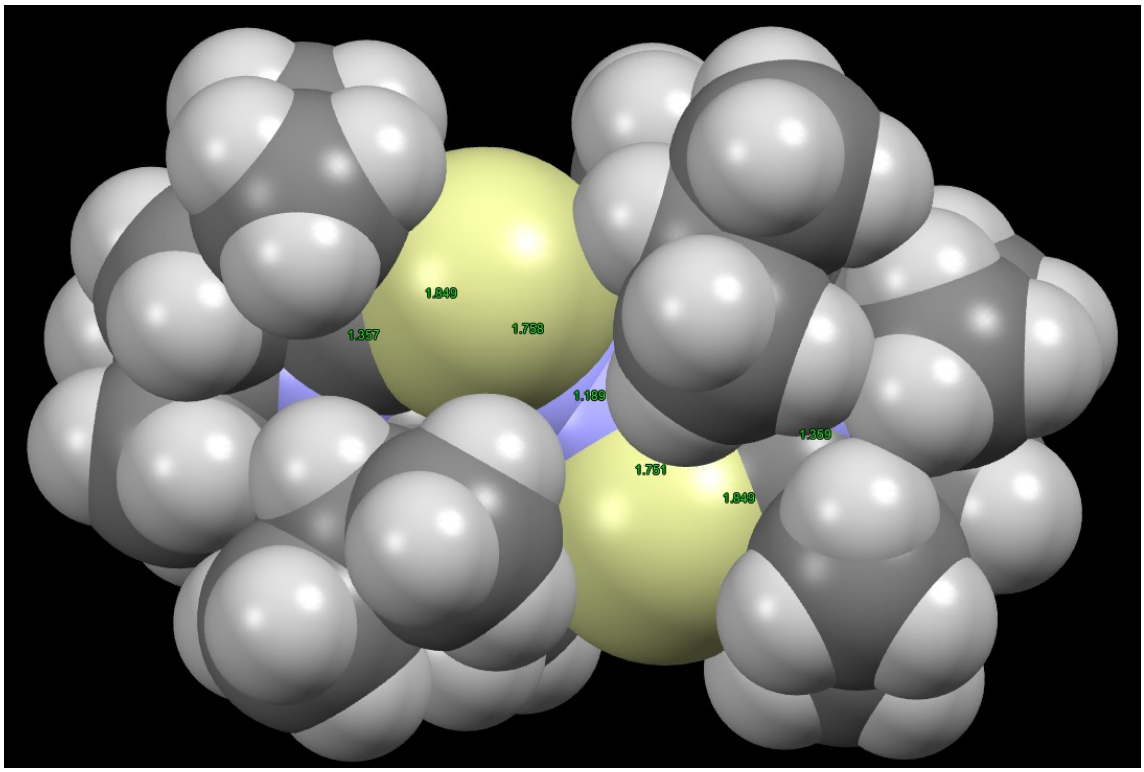

Figure S4. Space filling model of theoretically optimized compound $\mathbf{1}^{\mathbf{Dip}}$ in singlet states at the BP86-D3(BJ)/TZ2P level of theory.

Optimized coordinates

Energies in Hartree

$(cAAC\text{-}Si)_2(N_2)$ (**1**) Singlet

Energy; -1504.8348487

6	-5.344691000	0.343132000	0.766660000
6	-4.576621000	-0.958058000	1.069426000
7	-3.252773000	-0.672798000	0.437773000
6	-3.203270000	0.416986000	-0.353938000
6	-4.605448000	1.038697000	-0.403200000
14	-1.881447000	1.193708000	-1.417283000
6	-5.260146000	0.718449000	-1.765945000
6	-4.575191000	2.563115000	-0.209835000
6	-4.422209000	-1.174524000	2.580609000
6	-5.215262000	-2.196699000	0.419182000
6	-2.146275000	-1.593860000	0.617912000
7	-0.568055000	0.126659000	-0.969223000
7	0.576323000	-0.213785000	-0.965482000
14	1.911224000	-1.256037000	-1.406143000
6	3.233497000	-0.386151000	-0.416066000
6	4.649853000	-0.974620000	-0.450124000
6	5.523197000	0.165001000	0.130381000
6	4.582839000	1.084199000	0.934336000
7	3.248795000	0.699729000	0.381431000
6	4.687343000	-2.237513000	0.440043000
6	5.105632000	-1.350340000	-1.868744000
6	4.880738000	2.563682000	0.655726000
6	4.624979000	0.810897000	2.446943000
6	2.060711000	1.441219000	0.760457000
1	-6.400223000	0.147846000	0.534462000
1	-5.315611000	0.994318000	1.652577000

1	-6.298063000	1.086671000	-1.783172000
1	-4.701721000	1.201009000	-2.579700000
1	-5.270915000	-0.360640000	-1.968308000
1	-4.081828000	2.828910000	0.735300000
1	-4.024889000	3.052856000	-1.026197000
1	-5.600190000	2.965422000	-0.196823000
1	-3.880043000	-2.101603000	2.814119000
1	-5.415987000	-1.247766000	3.044827000
1	-3.888168000	-0.331003000	3.039137000
1	-6.196820000	-2.396420000	0.871823000
1	-5.354499000	-2.051747000	-0.659352000
1	-4.591276000	-3.089709000	0.567197000
1	-1.321981000	-1.120371000	1.170140000
1	-2.488519000	-2.472968000	1.175061000
1	-1.753127000	-1.911583000	-0.358807000
1	5.967560000	0.737226000	-0.696925000
1	6.347020000	-0.215738000	0.749036000
1	5.714259000	-2.631466000	0.496414000
1	4.034604000	-3.016382000	0.022363000
1	4.340294000	-2.026369000	1.460298000
1	4.472798000	-2.144305000	-2.290515000
1	5.049266000	-0.483784000	-2.541669000
1	6.144978000	-1.713827000	-1.848894000
1	4.224745000	3.235329000	1.227142000
1	5.916729000	2.790197000	0.945346000
1	4.764022000	2.786333000	-0.413574000
1	4.437442000	-0.248087000	2.664587000
1	5.611573000	1.078194000	2.851209000
1	3.872248000	1.409771000	2.979482000
1	1.585494000	1.899310000	-0.119968000

1	1.323262000	0.772880000	1.226501000
1	2.332615000	2.229814000	1.470399000

(cAAC-Ge)$_2$(N_2) (**2**) Singlet.

Energy; -5080.342574

6	-4.141476000	-1.302275000	0.448366000
6	-2.854330000	-1.739640000	1.174928000
7	-1.981798000	-0.541694000	0.974920000
6	-2.439857000	0.379419000	0.108152000
6	-3.747642000	-0.141302000	-0.499056000
6	-3.484463000	-0.648865000	-1.935716000
6	-4.843231000	0.935613000	-0.542594000
6	-3.114483000	-1.979736000	2.667959000
6	-2.197709000	-2.980034000	0.547083000
6	-0.701878000	-0.451950000	1.654183000
32	-1.767821000	2.088954000	-0.591773000
7	-0.114037000	1.975649000	0.379731000
7	0.980625000	2.152700000	0.762158000
32	2.710190000	1.516603000	1.423174000
6	2.635333000	0.101625000	0.057145000
6	3.212081000	-1.291663000	0.317517000
6	2.377707000	-2.171137000	-0.647964000
6	1.909130000	-1.248489000	-1.794977000
7	2.104244000	0.101840000	-1.182540000
6	1.759777000	1.293668000	-1.936142000
6	4.711929000	-1.282580000	-0.058604000
6	3.065062000	-1.762026000	1.769643000
6	0.421271000	-1.446056000	-2.118985000
6	2.751946000	-1.419305000	-3.069046000
1	-4.610497000	-2.137734000	-0.088836000

1	-4.866951000	-0.935549000	1.189045000
1	-4.397554000	-1.105470000	-2.349165000
1	-3.180562000	0.182273000	-2.586320000
1	-2.681555000	-1.397047000	-1.961127000
1	-5.027195000	1.348816000	0.458395000
1	-4.556963000	1.767185000	-1.202934000
1	-5.783007000	0.508576000	-0.925545000
1	-2.210448000	-2.305434000	3.201220000
1	-3.869425000	-2.770015000	2.786149000
1	-3.492836000	-1.065988000	3.145988000
1	-2.835970000	-3.862641000	0.695041000
1	-2.038966000	-2.845024000	-0.529943000
1	-1.224073000	-3.189800000	1.013355000
1	-0.667354000	0.415862000	2.328278000
1	-0.536110000	-1.361612000	2.240868000
1	0.121559000	-0.339758000	0.932938000
1	1.498302000	-2.556667000	-0.110777000
1	2.943939000	-3.035051000	-1.021989000
1	0.693469000	1.557237000	-1.839247000
1	2.363728000	2.130433000	-1.559719000
1	1.980698000	1.128526000	-2.999345000
1	5.129912000	-2.299578000	0.003528000
1	5.273535000	-0.634960000	0.628812000
1	4.872753000	-0.902357000	-1.075380000
1	2.012952000	-1.745027000	2.083724000
1	3.450208000	-2.787518000	1.881375000
1	3.628345000	-1.114612000	2.457233000
1	0.088112000	-0.765488000	-2.914571000
1	0.242108000	-2.478194000	-2.454739000
1	-0.194151000	-1.248914000	-1.231371000

1	3.819889000	-1.264693000	-2.870996000
1	2.619262000	-2.436982000	-3.461462000
1	2.440791000	-0.721693000	-3.858554000

$(cAAC\text{-}Si)_2(N_2)$ (**1**) Triplet

Energy; -1504.8109313

6	-5.692599000	0.276451000	0.417004000
6	-5.089418000	-1.099730000	0.075870000
7	-3.628976000	-0.777870000	0.008942000
6	-3.318132000	0.529946000	0.031721000
6	-4.620971000	1.336420000	0.060479000
14	-1.693870000	1.482259000	-0.041018000
6	-4.862247000	1.953572000	-1.335671000
6	-4.590593000	2.463058000	1.106004000
6	-5.367381000	-2.122635000	1.184943000
6	-5.568314000	-1.641599000	-1.280930000
6	-2.660916000	-1.853334000	-0.144219000
7	-0.611514000	0.099222000	0.001532000
7	0.611490000	-0.098528000	-0.001305000
14	1.693570000	-1.481786000	0.041566000
6	3.318045000	-0.529864000	-0.031424000
6	4.620711000	-1.336606000	-0.059727000
6	5.692529000	-0.277086000	-0.417011000
6	5.089663000	1.099435000	-0.076674000
7	3.629166000	0.777900000	-0.009270000
6	4.861894000	-1.952812000	1.336867000
6	4.590126000	-2.463987000	-1.104434000
6	5.367596000	2.121543000	-1.186490000
6	5.568938000	1.642109000	1.279667000
6	2.661355000	1.853642000	0.143370000

1	-6.639513000	0.447328000	-0.112477000
1	-5.903830000	0.322362000	1.495293000
1	-5.828233000	2.482341000	-1.354747000
1	-4.064619000	2.669984000	-1.577012000
1	-4.870186000	1.187840000	-2.122870000
1	-4.377324000	2.063242000	2.107127000
1	-3.812717000	3.201790000	0.865780000
1	-5.562594000	2.980097000	1.134601000
1	-4.944462000	-3.110392000	0.954644000
1	-6.453000000	-2.247051000	1.304761000
1	-4.951513000	-1.778057000	2.141568000
1	-6.644432000	-1.861169000	-1.238176000
1	-5.395531000	-0.912431000	-2.082462000
1	-5.047468000	-2.572774000	-1.545462000
1	-3.191830000	-2.798783000	-0.304172000
1	-2.000898000	-1.649390000	-0.996919000
1	-2.023592000	-1.939168000	0.746371000
1	5.903650000	-0.323723000	-1.495290000
1	6.639455000	-0.447831000	0.112491000
1	5.827793000	-2.481723000	1.356310000
1	4.064145000	-2.668922000	1.578702000
1	4.869954000	-1.186528000	2.123526000
1	3.812119000	-3.202410000	-0.863683000
1	4.376927000	-2.064859000	-2.105848000
1	5.562033000	-2.981222000	-1.132658000
1	4.944909000	3.109531000	-0.956765000
1	6.453214000	2.245674000	-1.306611000
1	4.951471000	1.776399000	-2.142799000
1	5.396197000	0.913492000	2.081709000
1	6.645086000	1.861457000	1.236545000

1	5.048320000	2.573550000	1.543709000
1	3.192477000	2.799092000	0.302648000
1	2.023899000	1.939035000	-0.747170000
1	2.001429000	1.650392000	0.996307000

$(cAAC\text{-}Si)_2(N_2)$ (**2**) Triplet

Energy; -5080.3231092

6	1.716813000	1.457592000	1.719842000
6	2.515609000	2.006301000	0.522225000
7	2.636233000	0.775600000	-0.320687000
6	2.467990000	-0.382854000	0.337263000
6	1.940766000	-0.080242000	1.737698000
6	2.961677000	-0.520608000	2.805129000
6	0.609852000	-0.817766000	1.973889000
6	1.770791000	3.120875000	-0.214214000
6	3.924923000	2.478844000	0.921322000
6	3.083463000	0.872274000	-1.697882000
32	2.851257000	-2.198265000	-0.367786000
7	0.811060000	-2.020908000	-1.846294000
7	0.026600000	-1.182177000	-1.765565000
32	-0.776397000	0.611535000	-1.747825000
6	-2.240136000	0.186086000	-0.551617000
6	-3.028200000	1.379745000	0.008716000
6	-4.277700000	0.710029000	0.633064000
6	-3.907543000	-0.760543000	0.906601000
7	-2.765697000	-0.949907000	-0.034127000
6	-2.227585000	-2.268751000	-0.293144000
6	-2.196634000	2.119864000	1.079773000
6	-3.426376000	2.383031000	-1.086085000
6	-5.077951000	-1.690756000	0.560219000

6	-3.445108000	-1.015383000	2.351181000
1	2.017571000	1.937045000	2.661162000
1	0.650690000	1.665811000	1.558439000
1	2.582941000	-0.288091000	3.812672000
1	3.135820000	-1.604132000	2.738189000
1	3.929945000	-0.018555000	2.675437000
1	-0.123160000	-0.533638000	1.204650000
1	0.758413000	-1.906871000	1.933160000
1	0.201643000	-0.557553000	2.963515000
1	2.359109000	3.525014000	-1.050184000
1	1.569663000	3.947008000	0.482187000
1	0.815280000	2.744651000	-0.608247000
1	3.850892000	3.350439000	1.586727000
1	4.475381000	1.686872000	1.445081000
1	4.508827000	2.780485000	0.040180000
1	2.324967000	1.386594000	-2.305897000
1	4.035249000	1.420466000	-1.766222000
1	3.229428000	-0.145656000	-2.085522000
1	-5.104889000	0.741493000	-0.091190000
1	-4.614145000	1.222520000	1.544403000
1	-2.136332000	-2.426054000	-1.378204000
1	-1.230652000	-2.394369000	0.154420000
1	-2.896232000	-3.030524000	0.121096000
1	-2.806718000	2.896062000	1.568314000
1	-1.324163000	2.602398000	0.618972000
1	-1.825248000	1.435042000	1.853015000
1	-3.999311000	1.888755000	-1.881968000
1	-4.038596000	3.192828000	-0.659673000
1	-2.538178000	2.842544000	-1.545569000
1	-4.858777000	-2.743408000	0.787343000

1	-5.956972000	-1.405832000	1.155529000
1	-5.339291000	-1.606340000	-0.503467000
1	-2.624156000	-0.344134000	2.631331000
1	-4.277241000	-0.860130000	3.052842000
1	-3.092559000	-2.050051000	2.469852000

Energies in Hartree

($cAAC^{Dip}$ -Si)$_2$(N_2) (**1^{Dip}**) Singlet

Energy; -2360.4740311

6	-5.557642000	-1.080936000	-1.089373000
6	-5.222038000	0.003999000	-0.049334000
7	-3.714053000	0.011331000	-0.127431000
6	-3.162369000	-1.008476000	-0.832615000
6	-4.290939000	-1.954484000	-1.259288000
6	-4.161361000	-2.454191000	-2.705782000
6	-4.291797000	-3.175744000	-0.310958000
6	-5.809570000	1.366707000	-0.425581000
6	-5.720380000	-0.348202000	1.361205000
7	-0.534319000	-0.119809000	-0.620670000
7	0.475260000	0.493567000	-0.483794000
6	3.125846000	1.185581000	-0.460077000
6	4.323583000	2.119144000	-0.687796000
6	5.524253000	1.243928000	-0.252032000
6	5.091188000	-0.222771000	-0.426394000
7	3.582936000	-0.086430000	-0.323515000
6	5.658648000	-1.136979000	0.660177000
6	5.529600000	-0.781060000	-1.787795000
6	4.414337000	2.553713000	-2.167232000
6	4.221499000	3.379681000	0.188495000
6	-2.438589000	0.777969000	1.824115000

6	-1.648433000	1.764833000	2.428655000
6	-1.306541000	2.928786000	1.748124000
6	-1.732835000	3.115573000	0.435242000
6	-2.536887000	2.168615000	-0.210752000
6	-2.912886000	1.012808000	0.515214000
6	1.912611000	-2.193967000	2.242602000
6	2.607009000	-1.137781000	1.648403000
6	2.768230000	-1.133813000	0.233267000
6	2.144421000	-2.115361000	-0.570841000
6	1.429759000	-3.133551000	0.089177000
6	1.338886000	-3.201521000	1.472096000
6	2.066486000	-2.211268000	-2.097926000
6	2.271551000	-0.951259000	-2.941104000
6	2.914644000	-3.384508000	-2.626651000
6	3.093897000	-0.006018000	2.546297000
6	1.907944000	0.861828000	3.006444000
6	3.875420000	-0.504195000	3.774340000
6	-2.661482000	-0.539081000	2.548682000
6	-1.355276000	-1.346700000	2.595903000
6	-3.236464000	-0.349583000	3.960418000
6	-2.913271000	2.395225000	-1.668479000
6	-3.669282000	3.722563000	-1.856237000
6	-1.679305000	2.360773000	-2.588234000
1	-6.434938000	-1.672041000	-0.793402000
1	-5.789034000	-0.598573000	-2.050636000
1	-5.025902000	-3.084840000	-2.966053000
1	-4.114138000	-1.612513000	-3.410004000
1	-3.249796000	-3.054610000	-2.838851000
1	-5.154023000	-3.826168000	-0.526235000
1	-3.369597000	-3.757430000	-0.446171000
1	-4.339355000	-2.876019000	0.743830000
1	-5.447870000	2.152365000	0.252150000
1	-5.558575000	1.645937000	-1.454688000
1	-6.904403000	1.324111000	-0.340622000

1	-5.358964000	0.384568000	2.094412000
1	-6.819098000	-0.320528000	1.369974000
1	-5.406006000	-1.347653000	1.681475000
1	5.739936000	1.431451000	0.810932000
1	6.435385000	1.471894000	-0.821701000
1	5.250819000	-2.153698000	0.580736000
1	6.749347000	-1.196236000	0.540001000
1	5.449428000	-0.755175000	1.663713000
1	5.143164000	-1.795039000	-1.940688000
1	5.201778000	-0.152976000	-2.622591000
1	6.627617000	-0.830939000	-1.814824000
1	3.550917000	3.181280000	-2.427492000
1	5.335993000	3.131721000	-2.339582000
1	4.408773000	1.695087000	-2.849722000
1	5.114728000	4.009808000	0.054768000
1	3.338524000	3.977161000	-0.082891000
1	4.135652000	3.113799000	1.251151000
1	-1.270196000	1.600557000	3.438418000
1	-0.669393000	3.674647000	2.224493000
1	-1.411293000	4.002443000	-0.111741000
1	1.795571000	-2.212546000	3.326778000
1	0.915986000	-3.877694000	-0.521944000
1	0.783667000	-4.011204000	1.947193000
1	1.011994000	-2.497321000	-2.264679000
1	1.922315000	-1.154624000	-3.963884000
1	1.700685000	-0.098190000	-2.555833000
1	3.320348000	-0.648599000	-3.006856000
1	2.728532000	-3.532479000	-3.700586000
1	2.674377000	-4.320705000	-2.104446000
1	3.990446000	-3.201452000	-2.496647000
1	3.755982000	0.641241000	1.956728000
1	2.267709000	1.734577000	3.572069000
1	1.322173000	1.222216000	2.151031000
1	1.241297000	0.283753000	3.663681000

1	4.301781000	0.348422000	4.322848000
1	4.694479000	-1.183536000	3.501899000
1	3.218972000	-1.044107000	4.471902000
1	-3.375745000	-1.126753000	1.961682000
1	-1.525129000	-2.325896000	3.068325000

1	-0.957858000	-1.514069000	1.587800000
1	-0.586406000	-0.818213000	3.176151000
1	-3.453450000	-1.325779000	4.418381000
1	-4.164605000	0.238529000	3.950812000
1	-2.521226000	0.168952000	4.615561000
1	-3.566582000	1.568584000	-1.978033000
1	-4.018555000	3.819924000	-2.894695000
1	-4.538543000	3.800460000	-1.190158000
1	-3.012212000	4.579319000	-1.647671000
1	-1.978330000	2.571957000	-3.625747000
1	-1.200635000	1.373998000	-2.568244000
1	-0.931880000	3.110097000	-2.288672000
14	-1.454493000	-1.373357000	-1.441366000
14	1.446051000	1.947391000	-0.590868000

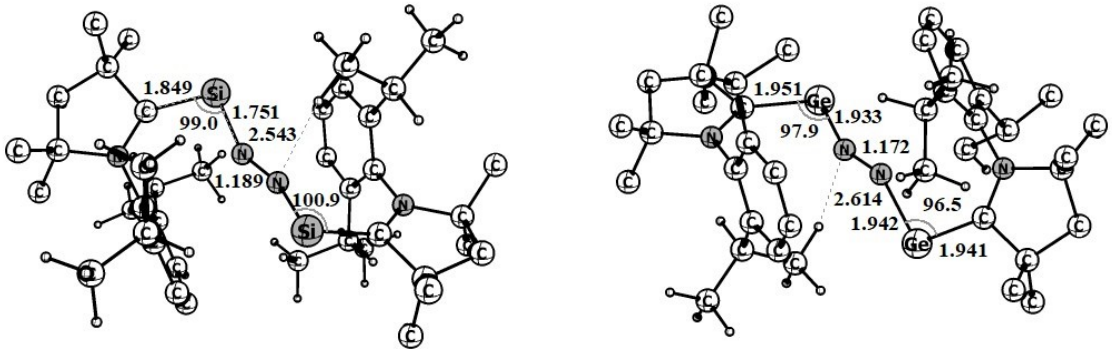

Figure S5. Optimized equilibrium geometries of (cAAC^{Dip}-Si)$_2$(N$_2$) (**1^{Dip}**) and (cAAC^{Dip}-Ge)$_2$(N$_2$) (**2^{Dip}**) in the singlet state at the BP86-D3(BJ)/Def2TZVPP level of theory.

Optimized coordinates

Energies in hartree

(cAAC^{Dip}-Ge)$_2$(N$_2$) (**2^{Dip}**) singlet

Energy; -5935.9834597

6	5.743911000	-1.077580000	-0.315271000
6	5.299338000	0.295700000	0.219961000
7	3.799471000	0.164360000	0.087316000
6	3.376955000	-0.846873000	-0.710460000

6	4.609934000	-1.589671000	-1.239668000
6	4.454748000	-3.115150000	-1.115956000
6	4.860040000	-1.233446000	-2.722467000
6	5.721906000	0.528101000	1.672208000
6	5.853098000	1.455338000	-0.624460000
32	1.643667000	-1.439326000	-1.382660000
7	0.545799000	-0.121162000	-0.492457000
7	-0.509143000	0.379074000	-0.387596000
6	2.355902000	2.159058000	0.169533000
6	1.375910000	2.893392000	0.849414000
6	0.894737000	2.478522000	2.089074000
6	1.384248000	1.312164000	2.670345000
6	2.365199000	0.541319000	2.032592000
6	2.858737000	0.990843000	0.787270000
6	2.809249000	-0.769054000	2.664140000
6	3.345725000	-0.568376000	4.091044000
6	2.806596000	2.618073000	-1.208060000
6	1.670920000	2.568392000	-2.243223000
6	3.411476000	4.031655000	-1.150781000
32	-1.629225000	1.884687000	-0.887098000
6	-3.314631000	1.099053000	-0.332242000
6	-4.566820000	1.968048000	-0.490416000
6	-5.715177000	0.932139000	-0.445922000
6	-5.185517000	-0.296515000	0.315726000
7	-3.686440000	-0.109441000	0.157958000
6	-4.658741000	2.985631000	0.668967000
6	-4.581489000	2.740874000	-1.820213000
6	-5.667777000	-1.605723000	-0.311578000
6	-5.605373000	-0.301338000	1.790401000
6	-1.697421000	-3.101577000	-0.824408000
6	-2.500119000	-1.961544000	-0.919031000
6	-2.785058000	-1.224778000	0.267189000
6	-2.183845000	-1.578326000	1.497686000
6	-1.427366000	-2.764840000	1.531940000

6	-1.192670000	-3.529503000	0.399794000
6	-2.116134000	-0.779321000	2.807019000
6	-2.382397000	0.725416000	2.769510000
6	-2.884083000	-1.456169000	3.958395000
6	-2.985111000	-1.561971000	-2.308977000
6	-1.813363000	-1.106033000	-3.199011000
6	-3.729871000	-2.713364000	-3.012859000
6	1.670793000	-1.800170000	2.658354000
1	6.711122000	-1.022268000	-0.832945000
1	5.857107000	-1.771782000	0.531127000
1	5.381690000	-3.620174000	-1.430044000
1	4.231105000	-3.402510000	-0.079509000
1	3.636341000	-3.483530000	-1.751657000
1	5.805043000	-1.681217000	-3.068645000
1	4.041066000	-1.614581000	-3.347628000
1	4.911589000	-0.148969000	-2.880364000
1	5.247639000	1.431458000	2.080580000
1	5.465849000	-0.322373000	2.312943000
1	6.810878000	0.668964000	1.713690000
1	5.484843000	2.420854000	-0.256761000
1	6.949727000	1.462017000	-0.546933000
1	5.589732000	1.362901000	-1.684107000
1	0.960132000	3.787622000	0.383939000
1	0.114433000	3.053132000	2.589053000
1	0.984355000	0.980660000	3.630049000
1	3.613463000	-1.183605000	2.042716000
1	3.732185000	-1.516590000	4.493287000
1	4.152175000	0.176361000	4.124678000
1	2.548532000	-0.224607000	4.766358000
1	3.578639000	1.920355000	-1.550810000
1	2.039450000	2.911368000	-3.221569000
1	1.293299000	1.544856000	-2.363515000
1	0.828193000	3.212526000	-1.953719000
1	3.838924000	4.308069000	-2.125715000

1	4.202413000	4.110585000	-0.391630000
1	2.641404000	4.776381000	-0.901520000
1	-5.968852000	0.634186000	-1.474258000
1	-6.625155000	1.337747000	0.016956000
1	-3.810922000	3.683048000	0.629331000
1	-5.593988000	3.562210000	0.593604000
1	-4.634588000	2.495276000	1.649696000
1	-5.525347000	3.298771000	-1.923985000
1	-3.756074000	3.466544000	-1.869242000
1	-4.480379000	2.057197000	-2.673924000
1	-5.173794000	-2.475520000	0.142532000
1	-6.749774000	-1.703275000	-0.145265000
1	-5.489357000	-1.622894000	-1.390772000
1	-5.149433000	-1.149566000	2.314901000
1	-5.331057000	0.622492000	2.310457000
1	-6.697054000	-0.413952000	1.854090000
1	-1.457037000	-3.658777000	-1.730308000
1	-0.968846000	-3.056796000	2.478035000
1	-0.573094000	-4.424934000	0.458508000
1	-1.048722000	-0.867049000	3.071262000
1	-2.041998000	1.167578000	3.718033000
1	-1.842133000	1.214842000	1.950148000
1	-3.444653000	0.963535000	2.662334000
1	-2.614680000	-0.988078000	4.916919000
1	-2.651649000	-2.527798000	4.024972000
1	-3.970341000	-1.355291000	3.836508000
1	-3.667929000	-0.707711000	-2.205343000
1	-2.180079000	-0.857003000	-4.206057000
1	-1.325811000	-0.213780000	-2.787283000
1	-1.057932000	-1.899528000	-3.297141000
1	-4.193962000	-2.352080000	-3.942311000
1	-4.512174000	-3.156002000	-2.383043000
1	-3.033864000	-3.519011000	-3.287441000
1	2.030720000	-2.773721000	3.024014000
1	1.267870000	-1.935046000	1.646590000
1	0.852052000	-1.477259000	3.318485000