Supplementary info to

Polygermane Building Blocks

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Dedicated to Dietmar Seyferth, an outstanding editor, author, chemist and friend

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Table S-1. Crystallographic data for compounds **2**, **3**, **4, 6** and **11**.

	2	**3**	**4**	**6**	**11**
Empirical formula	$KO_6Ge_4C_{21}H_{51}$	$Ge_8C_{18}H_{547}$	$Ge_9C_{20}H_{60}$	$Ge_4SiC_{18}H_{48}$	$K_3O_{18}Ge_9C_{61}H_{134}$
M_w	729.08	851.33	953.99	583.01	1926.29
Temperature [K]	233(2)	100(2)	100(2)	100(2)	100(2)
Size [mm]	0.36x0.28x0.24	0.35x0.248x0.20	0.36x0.22x0.16	0.34x0.32x0.28	0.05x0.05x0.04
Crystal system	monoclinic	trigonal	monoclinic	trigonal	triclinic
Space group	P2(1)/c	R-3	C2/c	R3	P-1
a [Å]	9.984(2)	15.968(2)	17.164(3)	14.591(2)	11.989(2)
b [Å]	17.401(4)	15.968(3)	9.252(2)	14.591(2)	19.870(4)
c [Å]	20.229(4)	11.190(2)	24.439(5)	10.863(2)	20.493(4)
α [°]	90	90	90	90	114.57(3)
β [°]	103.34(3)	90	106.31(3)	90	91.94(3)
γ [°]	90	120	90	120	101.78(3)
V [Å ^{3}]	3420(2)	2471(2)	3725(2)	2003(2)	4308(2)
Z	4	3	4	3	2
ρ_{calc} [gcm^{-3}]	1.416	1.716	1.701	1.450	1.485
Absorption coefficient [mm^{-1}]	3.630	7.197	7.162	4.504	3.294
F(000)	1488	1254	1872	894	1978
θ range	1.56<θ<26.37	2.34<θ<26.34	1.74<θ<26.37	2.47<θ<26.27	1.10<θ<25.00
Reflections collected/unique	27183/6991	6662/1129	12160/3776	5173/1784	29964/14778
Completeness to θ [%]	99.9	100	99.1	100	97.4
Data/restraints/parameters	6991/0/309	1129/0/43	3776/0/173	1784/1/74	14778/0/779
Goodness of fit on F^2	0.99	1.04	1.03	0.89	1.01
Final R indices [I>2σ(I)]	R1=0.037, *w*R2=0.078	R1=0.018, *w*R2=0.046	R1=0.039, *w*R2=0.089	R1=0.022, *w*R2=0.048	R1=0.111, *w*R2=0.176
R indices (all data)	R1=0.059, *w*R2=0.086	R1=0.020, *w*R2=0.047	R1=0.053, *w*R2=0.094	R1=0.023, *w*R2=0.049	R1=0.221, *w*R2=0.221
Largest diff. Peak/hole [e^-/ Å^3]	0.48/-0.26	0.46/-0.25	1.00/-0.69	0.50/-0.40	1.16/-1.01