

Assignment for CML 514

Get the original article and important related articles if any.

Read, understand and make a 1-2 page writeup with schemes.

Describe how the compound was experimentally prepared & characterized

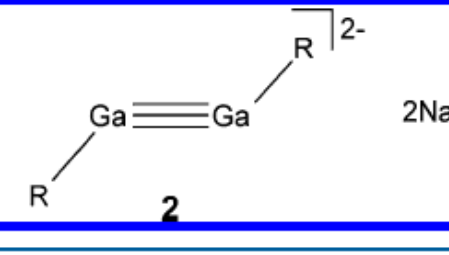
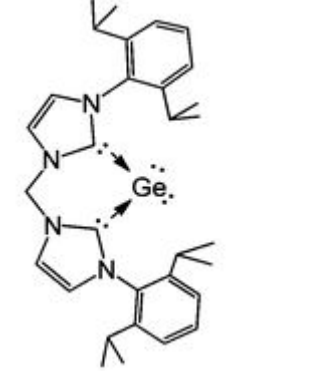
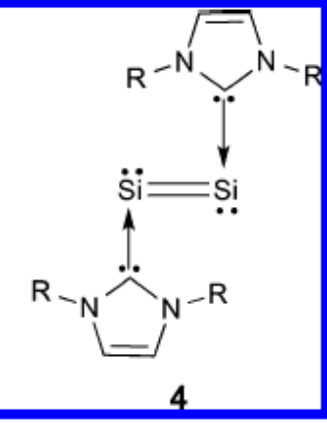
Mention unique structural and spectral features

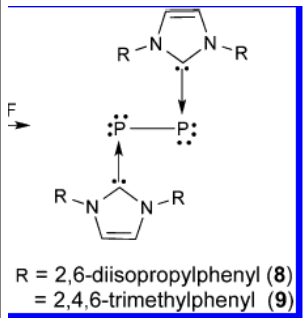
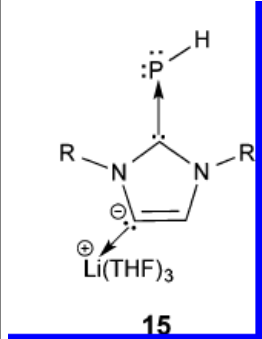
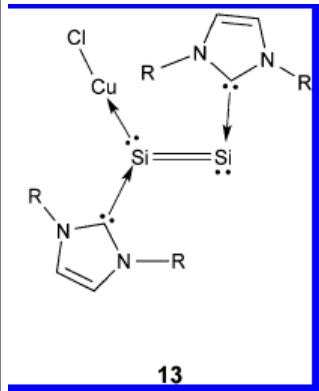
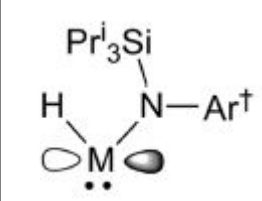
Mention what is special/unique about the compound when compared to similar compounds

List 3-4 important references related to the compound (in proper format)

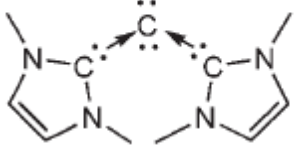
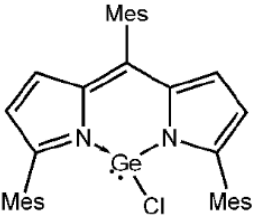
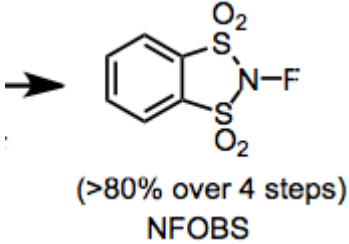
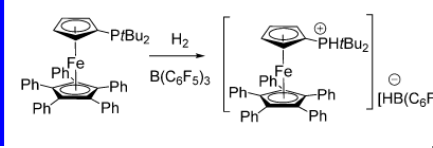
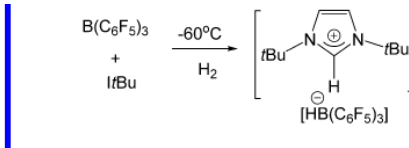
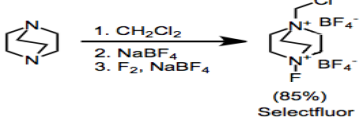
Attach printout of the original article along with writeup and submit

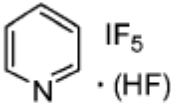

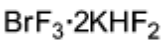
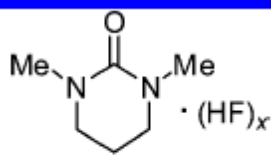

Date of submission October 29, 2015 Marks out of 5 based on above points

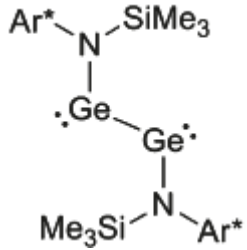
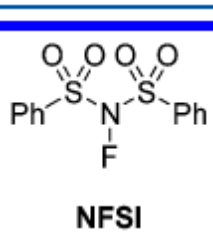
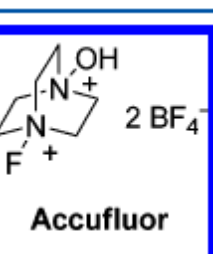
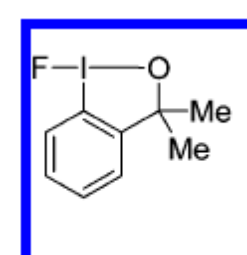
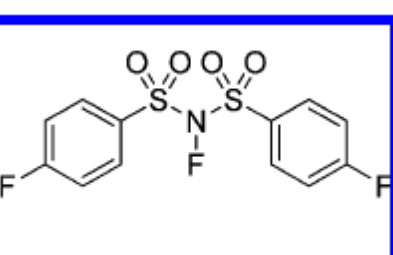
ID	Name	compound	Supporting information/lead article
1 2015CY S7001	ABHINAV HEMROM		dx.doi.org/10.1021/ic502231m <i>Inorg. Chem.</i> 2014, 53, 11815–11832
2 2015CY S7002	ABHIRUP GUHA		DOI: 10.1021/ja402477w
3 2015CY S7003	AJAD SINGH		
4 2015CY S7004	AJAY GUPTA		dx.doi.org/10.1021/ic502231m <i>Inorg. Chem.</i> 2014, 53, 11815–11832

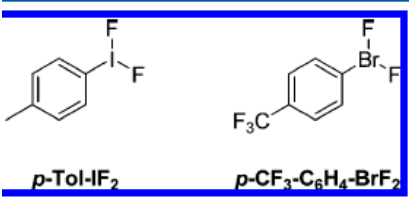
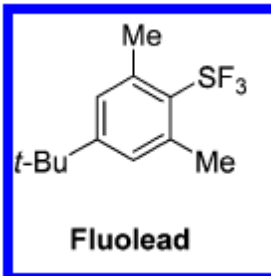
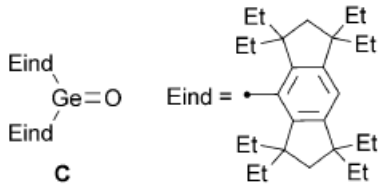
5	2015CY S7005	AJEET SINGH	 <p>R = 2,6-diisopropylphenyl (8) = 2,4,6-trimethylphenyl (9)</p>	dx.doi.org/10.1021/ic502231m <i>Inorg. Chem.</i> 2014, 53, 11815–11832
6	2015CY S7006	AKASH RAJPUT	 <p>15</p>	dx.doi.org/10.1021/ic502231m <i>Inorg. Chem.</i> 2014, 53, 11815–11832
7	2015CY S7007	ANCHALA PATEL	 <p>13</p>	dx.doi.org/10.1021/ic502231m <i>Inorg. Chem.</i> 2014, 53, 11815–11832
8	2015CY S7008	ANTRA		DOI: 10.1021/ja5006477
9	2015CY S7009	CHIRANJI T	$3\text{XeE}_1 + 4\text{B}(\text{OTeE}_3)_3 \xrightarrow{n\text{-C}_6\text{F}_{14}} 3\text{Xe}(\text{OTeE}_3)_4 + 4\text{BE}$	DOI: 10.1021/cr500427p <i>Chem. Rev.</i> 2015, 115, 1255–1295

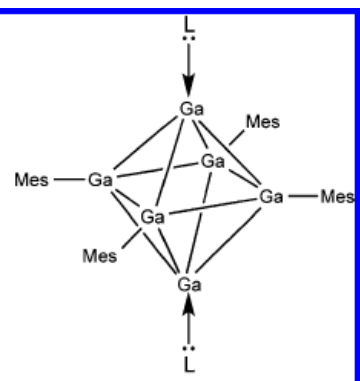
		CHOUDHARY		
1 0	2015CY S7011	DEEPAK		DOI: 10.1021/cr500427p <i>Chem. Rev.</i> 2015, 115, 1255–1295
1 1	2015CY S7010	DEEPAK POONIA	$\text{C}_6\text{F}_5\text{BF}_2 + \text{XeF}_4 \xrightarrow[-55^\circ\text{C}]{\text{CH}_2\text{Cl}_2} [\text{C}_6\text{F}_5\text{XeF}_2][\text{BF}_4]$	DOI: 10.1021/cr500427p <i>Chem. Rev.</i> 2015, 115, 1255–1295
1 2	2015CY S7012	DINESH KUMAR KAKRAN	A Stable Heavier Group 14 Element Analogue of an Alkyne (Pb)	<i>J. Am. Chem. Soc.</i> , 2000 , 122 (14), pp 3524–3525
1 3	2015CY S7013	DIVYA GUPTA	A tin analogue of an alkyne	<i>J. AM. CHEM. SOC.</i> 2002, 124, 5930-5931
1 4	2015CY S7014	FATEHJEE T KAUR	Synthesis and Characterization of a Stable Dibismuthene: Evidence for a Bi-Bi Double Bond <u>Norihiko Tokitoh*</u> , <u>Yoshimitsu Arai,</u> <u>Renji Okazaki*</u> , <u>Shigeru Nagase</u>	<i>Science</i> 4 July 1997: Vol. 277 no. 5322 pp. 78-80
1 5	2015CY S7015	HARENDRA SHESHMA	AuXe₄²⁺	Konrad Seppelt, Stefan Seidel; Seppelt, K (2000-10-06). "Xenon as a Complex Ligand: The Tetra Xenono Gold(II) Cation in AuXe ₄ ²⁺ (Sb ₂ F ₁₁ ⁻) ₂ ". <i>Science</i> 290 (5489): doi:10.1126/science.290.5489.117. PMID 11021792
1 6	2015CY S7016	HARISH LAL	HA _r F	Khriachtchev, L., Pettersson, M., Runeberg, N., Lundell, J., Räsänen, M. (2000). "A stable argon compound". <i>Nature</i> 406 (6798): 874–876. doi:10.1038/35022551.PMID 10972285

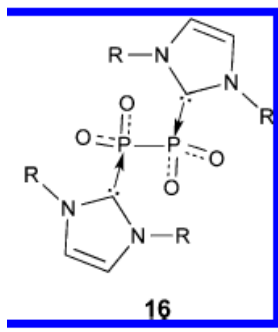
1 7	2015CY S7017	JAWAD ABID		<i>Angew. Chem. Int. Ed.</i> 2008 , 47, 3206–3209
1 8	2015CY S7018	JAYANT	Galinstan	<i>Anal Bioanal Chem</i> (2005) 383: 1009–1013 DOI 10.1007/s00216-005-0069-7 SHORT COMMUN ICAT IO
1 9	2015CY S7019	KUNVAR OM PANDEY		DOI: 10.1002/chem.201403598
2 0	2015CY S7020	MANISH		Davis, F. A.; Han, W.; Murphy, C. K. <i>J. Org. Chem.</i> 1995 , 60, 4730.
2 1	2015CY S7021	MANSU KUMARI		DOI: 10.1021/ar500375j <i>Acc. Chem. Res.</i> 2015, 48, 306–316
2 2	2015CY S7022	MOHIT SAINI		DOI: 10.1021/ar500375j <i>Acc. Chem. Res.</i> 2015, 48, 306–316
2 3	2015CY S7023	NEERAJ YADAV	Carborane acid H(CHB ₁₁ Cl ₁₁)	Juhasz, M.; Hoffmann, S.; Stoyanov, E.; Kim, K.-C.; Reed, C. A. (2004). "The Strongest Isolable Acid". <i>Angewandte Chemie International Edition</i> 43 (40): 5352–5355
2 4	2015CY S7024	NIDHI JAIN	Selectfluor 	<i>Acc. Chem. Res.</i> 37 (1): 31–44. doi:10.1021/ar030043v DOI: 10.1021/cr500706a <i>Chem. Rev.</i> 2015, 115, 9073–9174

2 5	2015CY S7025	PIYUSH	 <p>IF₅-pyridine-HF</p>	DOI: 10.1021/cr500706a <i>Chem. Rev.</i> 2015, 115, 9073–9174	
2 6	2015CY S7026	POOJA RAWAT	 <p>1</p>	dx.doi.org/10.1021/ja2048072 <i>J. Am. Chem. Soc.</i> 2011, 133, 11482–11484	
2 7	2015CY S7027	PRANGYA PARIMITA JANI	 <p>BrF₃-KHF₂</p>	DOI: 10.1021/cr500706a <i>Chem. Rev.</i> 2015, 115, 9073–9174	
2 8	2015CY S7028	PRASHAN T GUPTA	 <p>DMPU/HF</p>	DOI: 10.1021/cr500706a <i>Chem. Rev.</i> 2015, 115, 9073–9174	
2 9	2015CY S7029	PRATIKSH A SHARMA	 <p>IPy₂BF₄</p>	DOI: 10.1021/cr500706a <i>Chem. Rev.</i> 2015, 115, 9073–9174	

3 0	2015CY S7030	R KARTIK LAKSHMI	 <p>DOI: 10.1021/ja209215a</p>	
3 1	2015CY S7031	RAKI MANDAL	 <p>NFSI</p> <p>DOI: 10.1021/cr500706a <i>Chem. Rev.</i> 2015, 115, 9073–9174</p>	
3 2	2015CY S7032	RAKTIM SEN	 <p>Accufluor</p> <p>DOI: 10.1021/cr500706a <i>Chem. Rev.</i> 2015, 115, 9073–9174</p>	
3 3	2015CY S7033	RICHA BELWAL	 <p>fluoriodane</p> <p>DOI: 10.1021/cr500706a <i>Chem. Rev.</i> 2015, 115, 9073–9174</p>	
3 4	2015CY S7034	RUCHIKA BHATGHARE	 <p>4,4'-diF-NFSI</p> <p>DOI: 10.1021/cr500706a <i>Chem. Rev.</i> 2015, 115, 9073–9174</p>	
3 5	2015CY S7035	SAHIL	<p>DOI: 10.1021/cr500706a <i>Chem. Rev.</i> 2015, 115, 9073–9174</p>	

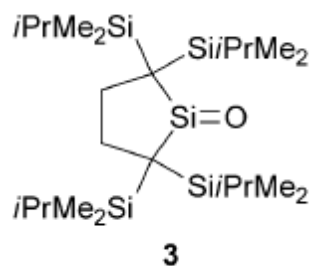
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3 6	2015CY S7036	SANDEEP			
3 7	2015CY S7037	SAYAN PALUI	 <p>Fluolead</p>	DOI:10.1021/cr500706a <i>Chem. Rev.</i> 2015, 115, 9073–9174	
3 8	2015CY S7038	SAYONI KEDIA	Make a writeup of NHC's coordinated to p block elements	26 JUNE 2014 VOL 510 NATURE 485 <u>doi:10.1038/nature13384</u>	
3 9	2015CY S7039	SHEENAM	 <p>Eind-Ge=O Eind C</p> <p>Eind =</p>	<i>doi:10.1038/nchem.1305</i>	
4 0	2015CY S7040	SHIVEND RA KUMAR PANDEY		R. S. Simons and P. P. Power. (h ⁵ -C ₅ H ₅)(CO) ₂ MoGeC ₆ H ₃ -2,6-Mes ₂ : A Transition-Metal Germylyne Complex. <i>Journal of the American Chemical Society</i> , 1996 , 118, 11966-11967.	
4 1	2015CY S7041	SHUBHAM SHARMA		F. Lips, J. C. Fetting, A. Mansikkamaki, H. M. Tuononen, and P. P. Power. Reversible Complexation of Ethylene by a Silylene under Ambient Conditions. <i>Journal of the American Chemical Society</i> . 2014, 136, 634-637	
4 2	2015CY S7042	SIMRAN BAREJA	Make a writeup of NHC's as organocatalysts	26 JUNE 2014 VOL 510 NATURE 485	

				doi:10.1038/nature13384	
4 3	2015CY S7043	SOUVIK BARMAN		Y. Peng, B. D. Ellis, X. Wang, J. C. Fettinger and P. P. Power. Reversible σ -Complexation of Ethylene by Main Group Molecules under Ambient Conditions, <i>Science</i> , 2009 , 325, 1668-1670.	
4 4	2015CY S7044	SRADDHA AGRAWAL	Make a writeup of NHC's coordinated to transition elements	26 JUNE 2014 VOL 510 NATURE 485 doi:10.1038/nature13384	
4 5	2015CY S7045	SRISHTI GUPTA		D. Phillips, R. J. Wright, M. M. Olmstead and P. P. Power. Synthesis and Characterization of 2,6-Dipp ₂ -H ₂ C ₆ SnSnC ₆ H ₃ -2,6-Dipp ₂ (Dipp = C ₆ H ₃ -2,6-Pr ⁱ): A Tin Analogue of an Alkyne. <i>Journal of the American Chemical Society</i> , 2002 , 124, 5930-5931.	
4 6	2015CY S7046	SUMIT KUMAR		J. W. Dube, C. M.E. Graham, C. L. B Macdonald, Z. D Brown, P. P. Power and P. J. Ragnogna. Reversible, Photoinduced Activation of P4 by Low-Coordinate Main Group Compounds. <i>Chemistry: A European Journal</i> . 2014, 20, 6739-6744	
4 7	2015CY S7047	SUNEEL KUMAR		dx.doi.org/10.1021/ic502231m <i>Inorg. Chem.</i> 2014, 53, 11815–11832	
4 8	2015CY S7048	TAMANNA		dx.doi.org/10.1021/ic502231m <i>Inorg. Chem.</i> 2014, 53, 11815–11832	



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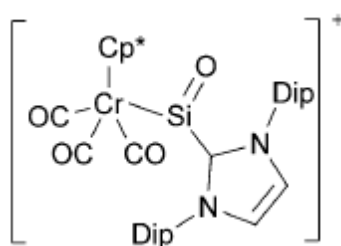
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<http://dx.doi.org/10.1002/chem.201501478>.

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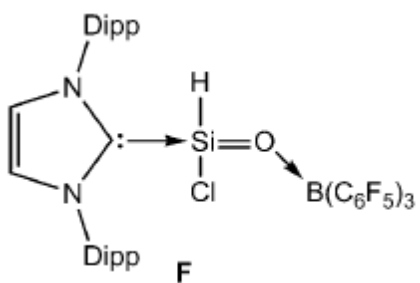
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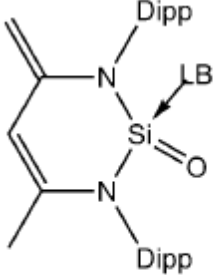
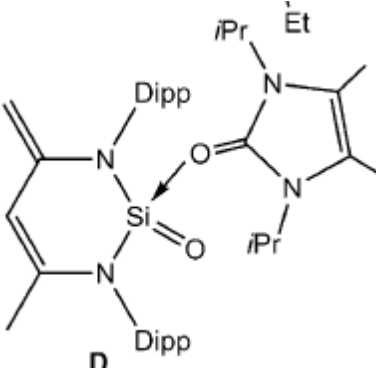
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5 2015CY
1 S7051

UPANSHU
GANGWA
R



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5 2	2015CY S7052	VAISHALI THAKKUR	 <p>LB=NHC; B LB=DMAP; C</p>	Angew. Chem. Int. Ed. 2014, 53, 8820–8822	
5 3	2015CY S7053	VARUN			
5 4	2015CY S7054	VIKAS KUMAR GAUTAM		Angew. Chem. Int. Ed. 2014, 53, 8820–8822	