Electronic Supplementary Material for CrystEngComm

Gold…π aryl interactions as supramolecular synthons†

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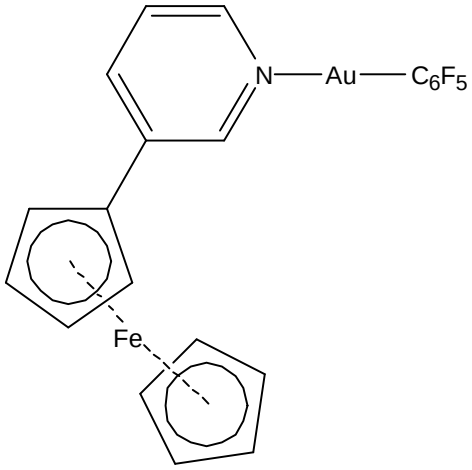
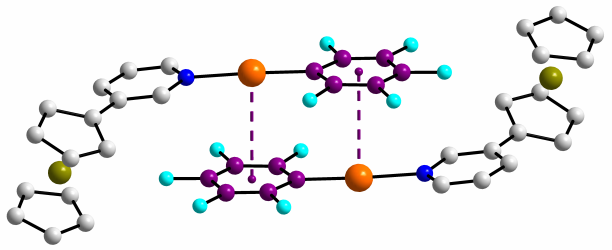
Table S(2) Chemical structures and other descriptors describing intermolecular Au….π interactions in spherical aggregates, (**11**) – (**33**). Species not engaged in Au….π interactions are shown in blue.

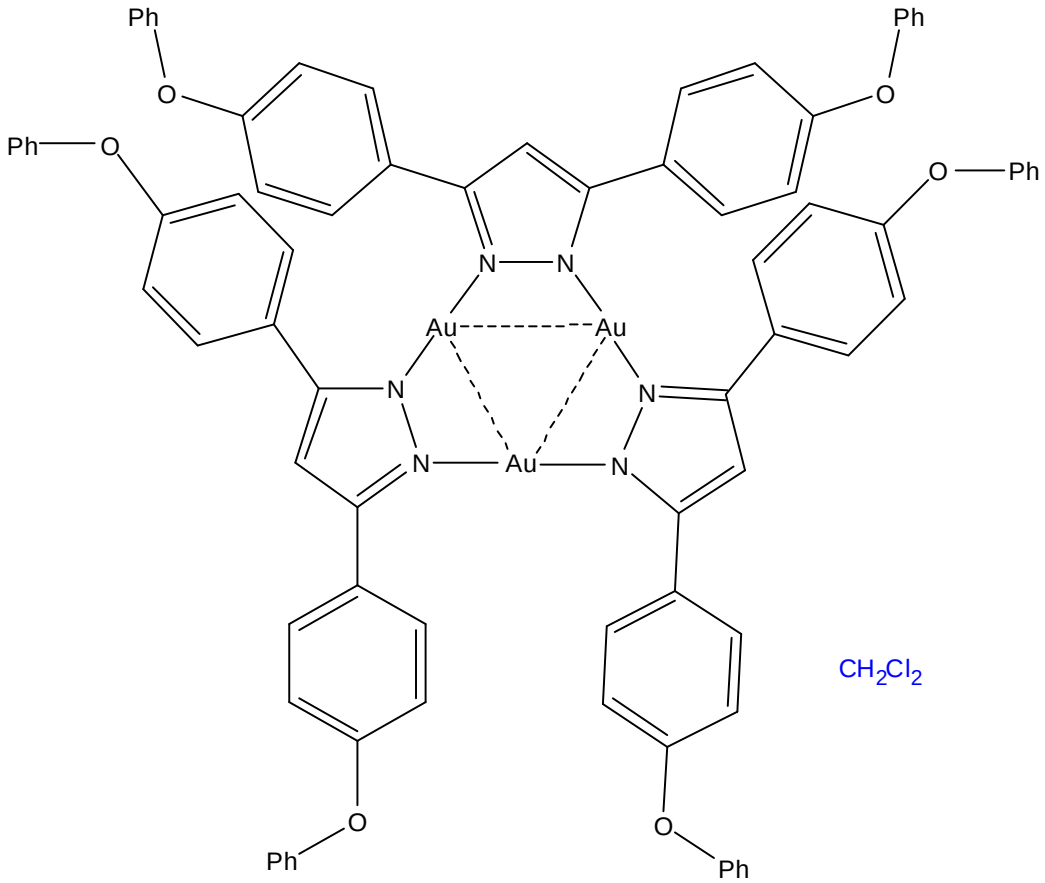
Compound number; Au…C(g), *d* (Å); Au…C(g)…plane, α^{a} (º); [ref.] and REFCODE

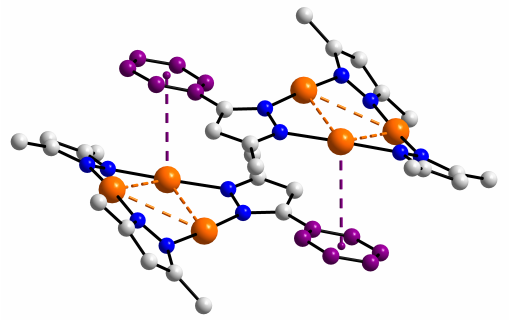
(**11**), 3.51, 5.1 [E. M. Barranco, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa, *J. Organomet. Chem.*, 1999, **592**, 258] KETLUQ



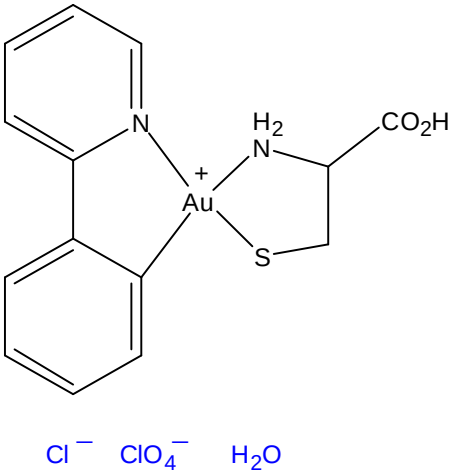


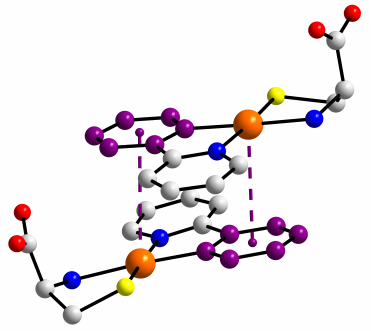
(**12**), 3.51, 17.1 [M. C. Torralba, P. Ovejero, M. J. Mayoral, M. Cano, J. A. Campo, J. V. Heras, E. Pinilla and M. R. Torres, *Helv. Chim. Acta*, 2004, **87**, 250] ATOWEL



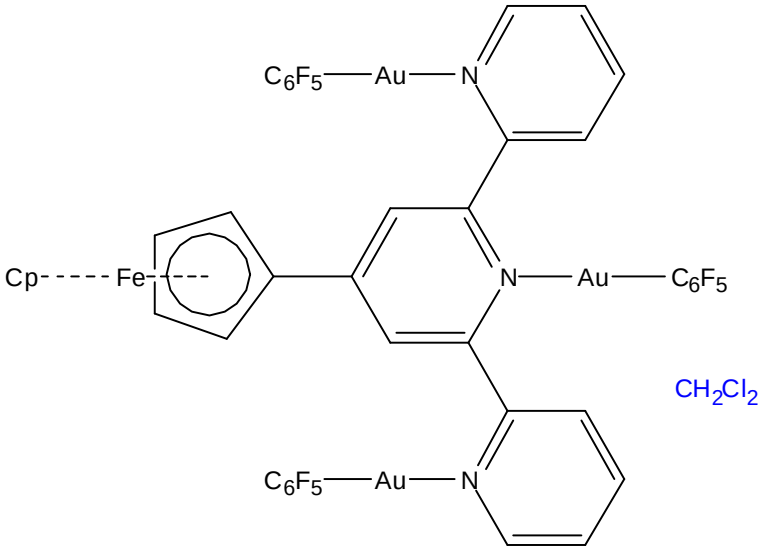


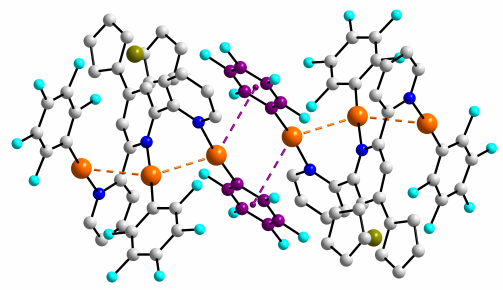
(**13**), 3.54, 12.7 [D. Fan, C.-T. Yang, J. D. Ranford, J. J.Vittal and P. F. Lee, *Dalton Trans.*, 2003, 3376] ITELEY



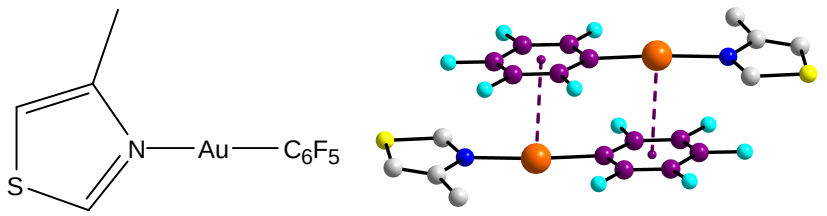


(**14**), 3.58, 7.5 [E. Aguado, M. J. Calhorda, M. C. Gimeno and A. Laguna, *Chem. Commun.* 2005, 3355] QARFIZ

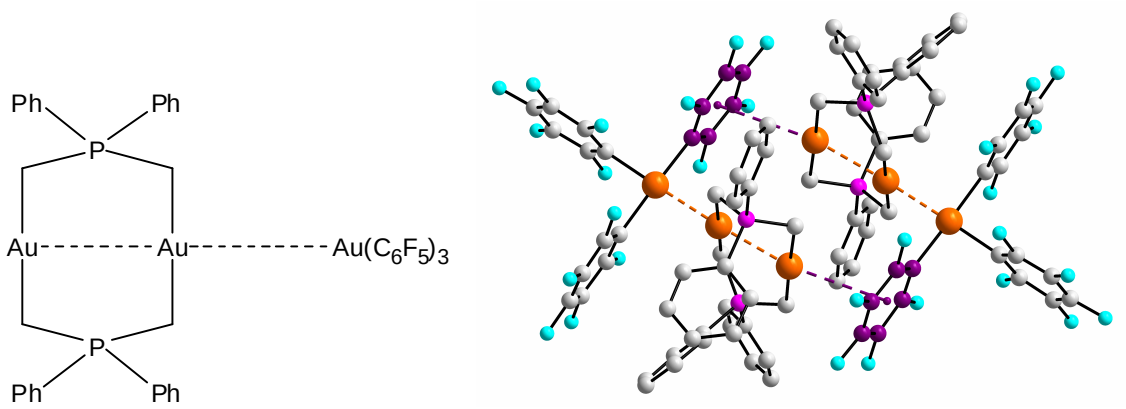




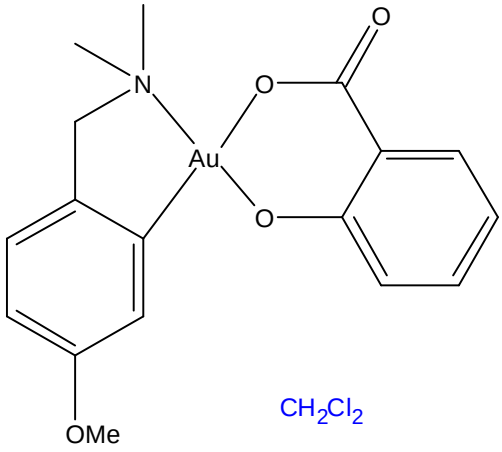
(**15**), 3.59, 16.6 [S. Cronje, H. G. Raubenheimer, H. S. C. Spies, C. Esterhuysen, H. Schmidbaur, A. Schier and G. J. Kruger, *Dalton Trans.*, 2003, 2859] IKABAX

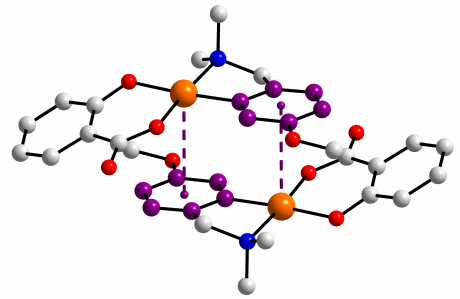


(**16**), 3.61, 11.3 [R. Uson, A. Laguna, M. Laguna, M. T. Tarton and P. G. Jones, *Chem. Commun.*, 1988, 740] GAVXEG

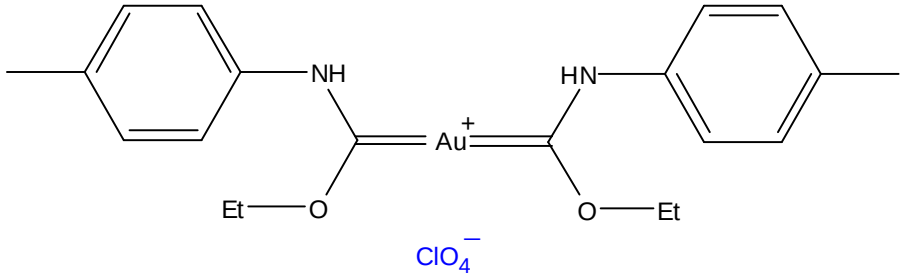


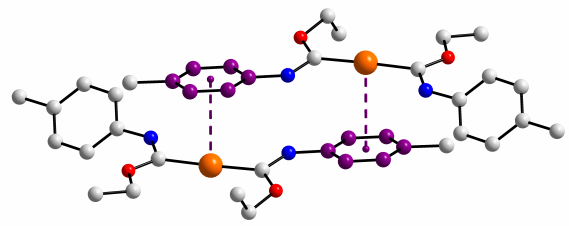
(**17**), 3.62, 5.2 [M. B. Dinger and W. Henderson, *J. Organomet. Chem.*, 1998, **560**, 233] GOVBUO



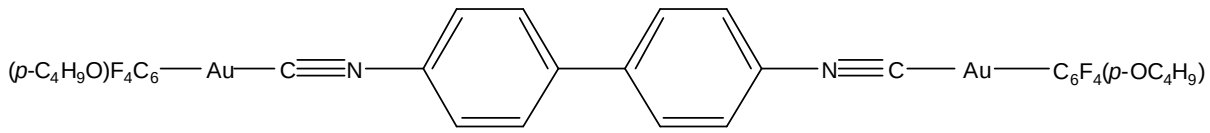


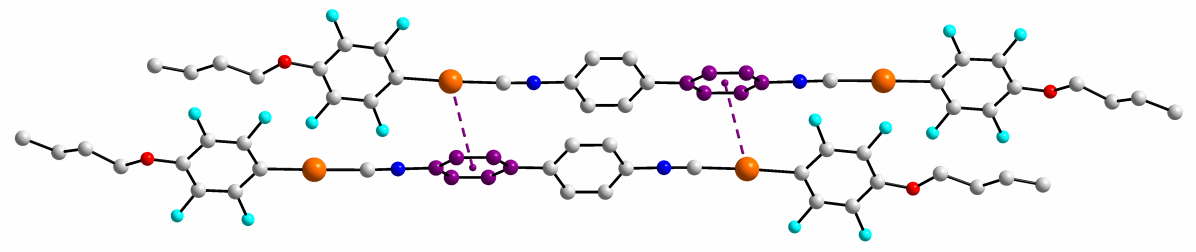
(**18**), 3.63, 10.1 [G. Banditelli, F. Bonati, S. Calogero, G. Valle, F. E. Wagner and R. Wordel, *Organometallics*, 1986, **5**, 1346] DUHZEL



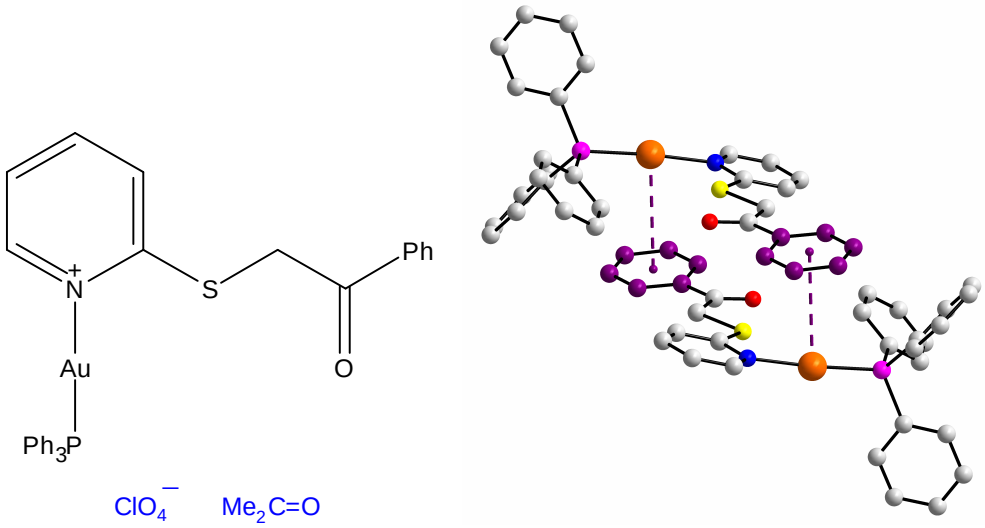


(**19**), 3.65, 15.0 [S. Coco, C. Cordovilla, P. Espinet, J. M. Martin-Alvarez and P. Munoz, *Inorg. Chem.* 2006, **45**, 10180] NETQUZ

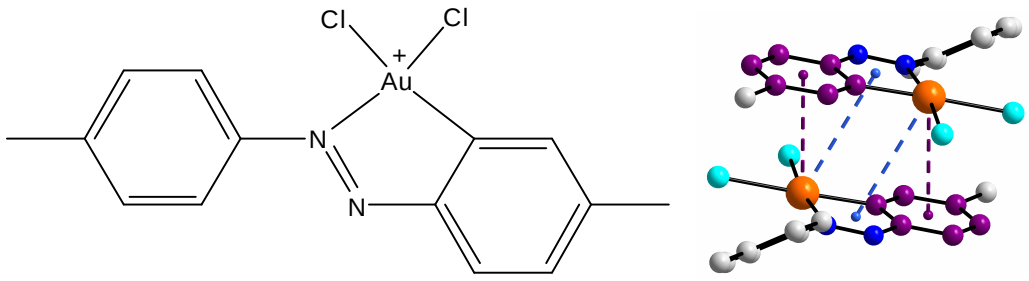




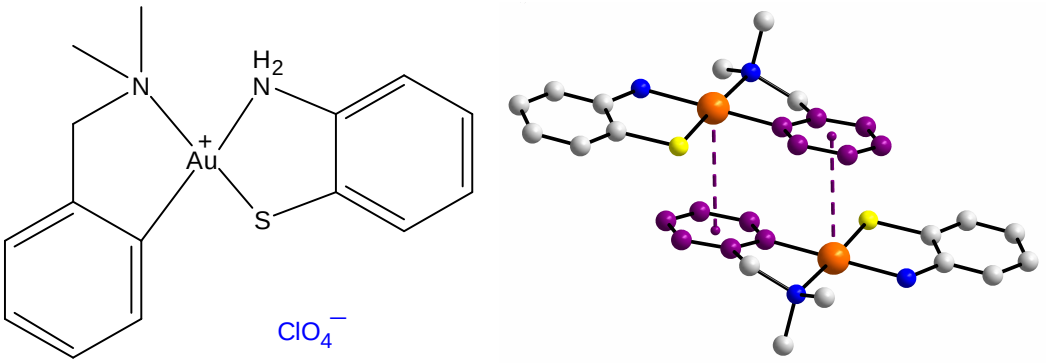
(**20**), 3.68, 9.1 [J. Vicente, M.-T. Chicote, S. Huertas, M. C. Ramirez de Arellano and P. G. Jones, *Eur. J. Inorg. Chem.*, 1998, 511] NUGGOL



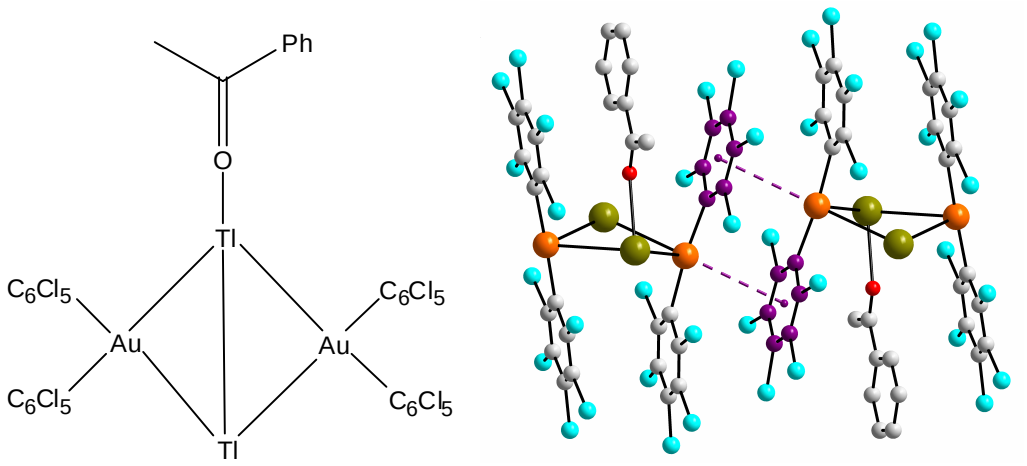
(**21**), 3.73, 16.8 [J. Vicente, M.-D. Bermudez, M.-P. Carrillo and P. G. Jones, *J. Chem. Soc., Dalton Trans.*, 1992, 1975] KUDSAD



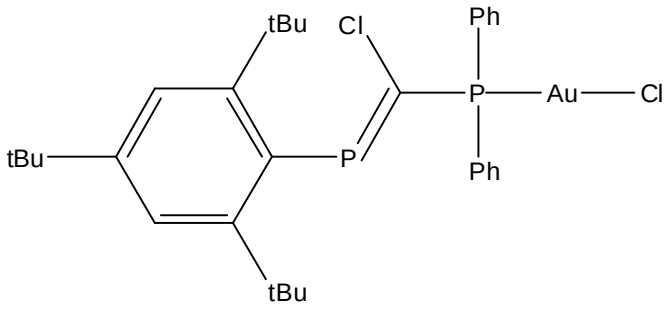
(**22**), 3.77, 10.9 [J. Vicente, M.-T. Chicote, M. D. Bermudez, P. G. Jones, C. Fittschen and G. M. Sheldrick, *J. Chem. Soc., Dalton Trans.*, 1986, 2361] FANLAH

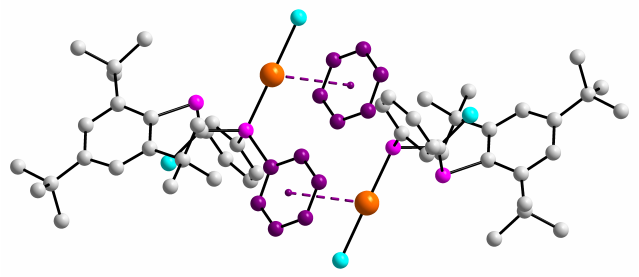


(**23**), 3.78, 16.6 [G. Jia, N. C. Payne, J. J. Vittal and R. J. Puddephatt, *Organometallics*, 1993, **12**, 4771] WATHIJ

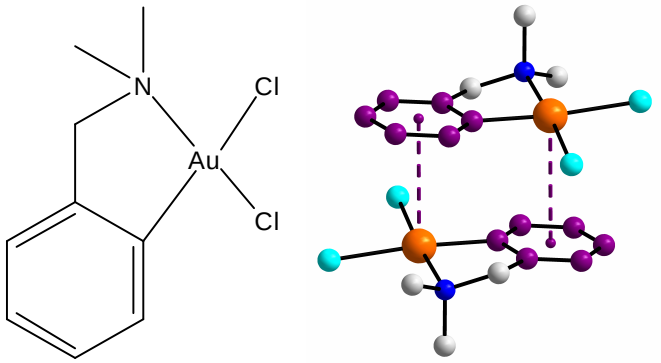


(**24**), 3.80, 12.8 [M. Freytag, S. Ito and M. Yoshifuji, *Chem. Asian J.*, 2006, **1**, 693] JETCIV

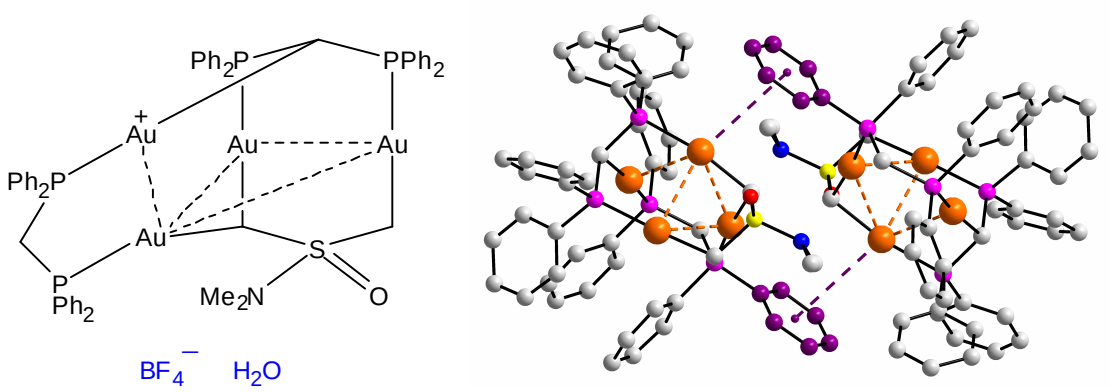




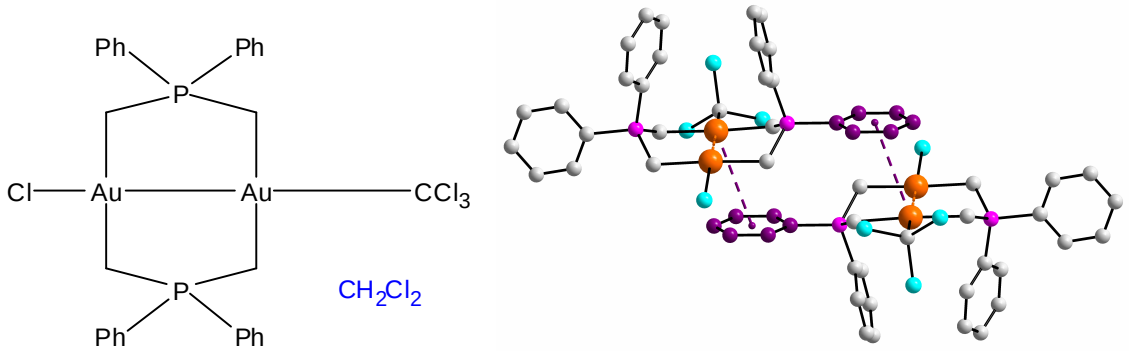
(**25**), 3.85, 12.2 [J. Mack, K. Ortner, U. Abram and R. V. Parish, *Z. Anorg. Allg. Chem.*, 1997, **623**, 873] RAFZON



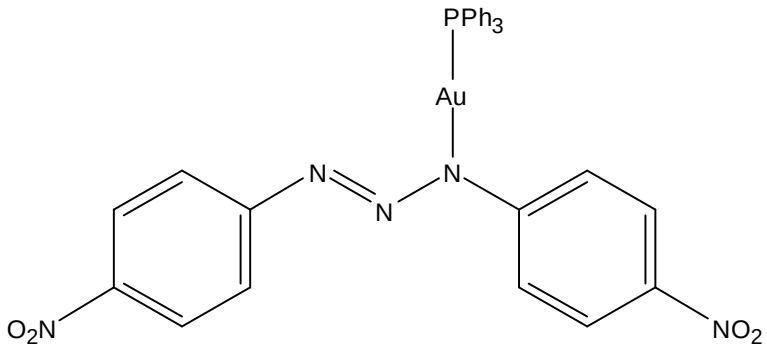
(**26**), 3.86, 12.5 [D.-F. Feng, S. S. Tang, C. W. Liu, I. J. B. Lin, Y.-S. Wen and L.-K. Liu, *Organometallics*, 1997, **16**, 901] KUCRAB

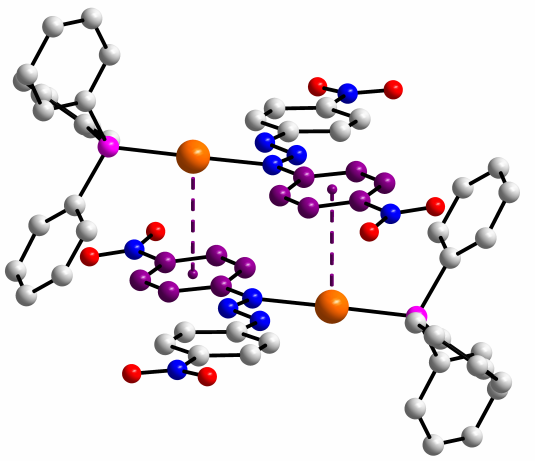


(**27**), 3.87, 17.9 [M. H. Murray III, J. P. Fackler Jr., L. C. Porter and A. M. Mazany, *Chem. Commun.*, 1986, 321] DIJJOV

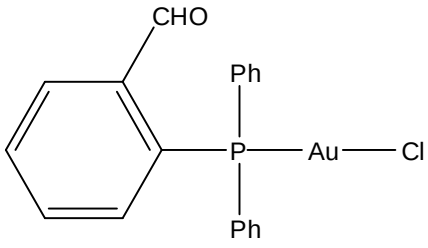


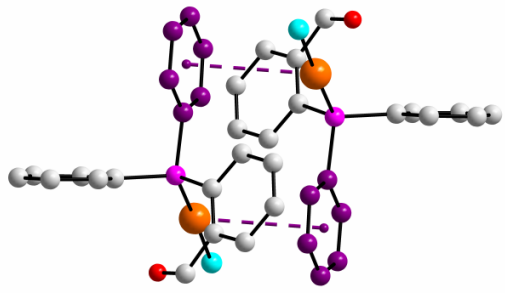
(**28**), 3.87, 18.5 [M. Horner, I. C. Casagrande, H. Fenner, J. Daniels and J. Beck, *Acta Crystallogr., Sect. C: Cryst. Struct. Commun.*, 2003, **59**, m424] OLIZEO



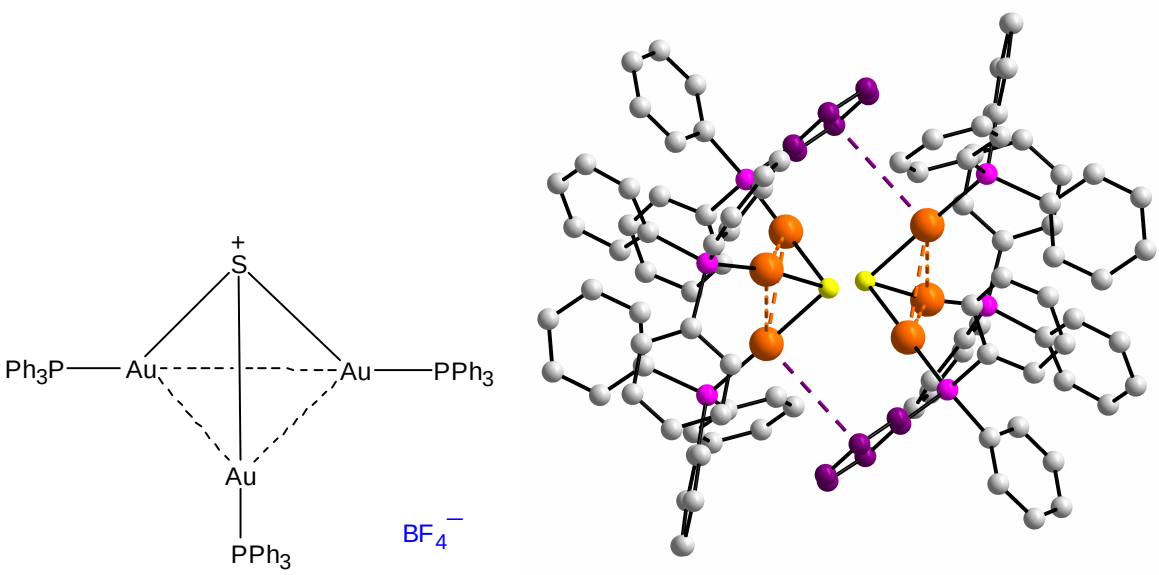


(**29**), 3.88, 18.9 [M. R. J. Elsegood, M. B. Smith and S. H. Dale, *Acta Crystallogr., Sect. E: Struct. Rep. Online*, 2006, **62**, m1850] PELRUU

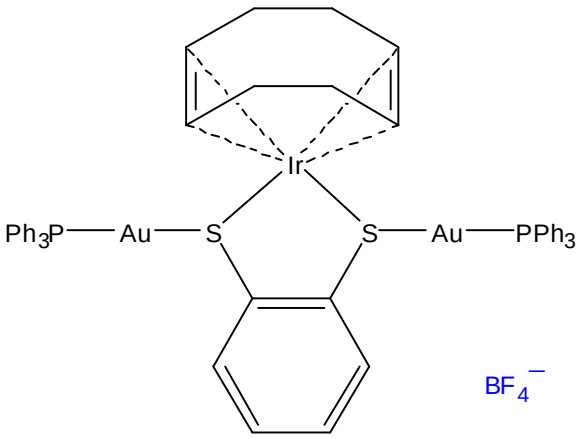


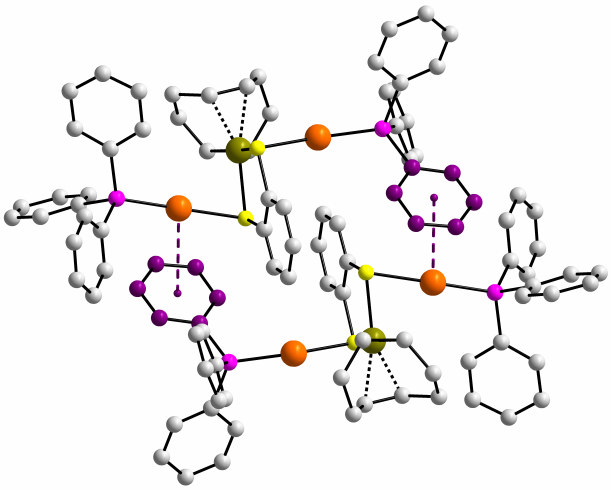


(**30**), 3.90, 11.4 [H. Schmidbaur, A. Kolb, E. Zeller, A. Schier and H. Beruda, *Z. Anorg. Allg. Chem.*, 1993, **619**, 1575] PEWKIL

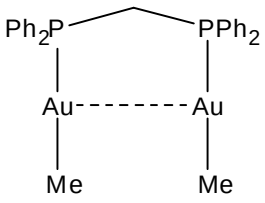


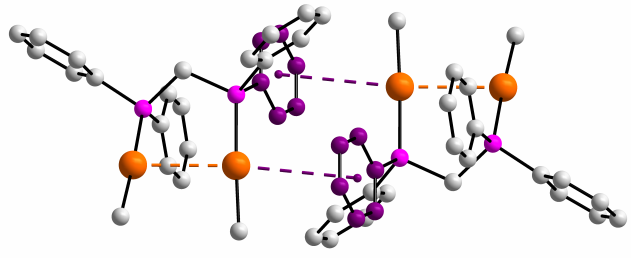
(**31**), 3.93, 15.5 [I. del Rio, R. Terroba, E. Cerrada, M. B. Hursthouse, M. Laguna, M. E. Light and A. Ruiz, *Eur. J. Inorg. Chem.*, 2001, 2013] ABUGAF





(**32**), 3.97, 18.1 [X. Hong, K.-K. Cheung, C.-X. Guo and C.-M. Che, *J. Chem. Soc., Dalton Trans.* 1994, 1867] LEYMAD





(**33**), 3.99, 19.0 [W. Schneider, A. Bauer and H. Schmidbaur, *J. Chem. Soc., Dalton Trans.*, 1997, 415] REXRUH