Supporting Information

Reactions of a gold(I) thiolate complex [Au(Tab)$_2$]$_2$(PF$_6$)$_2$
(Tab = 4-(trimethylammonio)benzenethiolate) with
diphosphine ligands†

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ESI mass spectrum of compound 1

AuS2+dppe 216 (8.002) 1: Scan ES+ 1.94e7

AuS2+dppe 146 (5.403) 1: Scan ES+ 2.37e8

AuS2+dppe 128 (4.734) 1: Scan ES+ 1.78e7

AuS2+dppe 25 (0.910) 1: Scan ES+ 1.67e8
ESI mass spectrum of compound 2

Au(dppp) 138 (5.105) 1: Scan ES+

Au(dppp) 92 (3.397) 1: Scan ES+

Au(dppp) 159 (5.885) 1: Scan ES+

Au(dppp) 25 (0.909) 1: Scan ES+

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ESI mass spectrum of compound 3

Au(dppb) 211 (7.816) 1: Scan ES+ 1.69e7

Au(dppb) 160 (5.922) 1: Scan ES+ 2.21e8

Au(dppb) 136 (5.031) 1: Scan ES+ 4.93e7

Au(dppb) 92 (3.397) 1: Scan ES+ 3.86e6

Au(dppb) 24 (0.872) 1: Scan ES+ 1.78e8
ESI mass spectrum of compound 4

Au₄S₆ 91 (3.379) 2: Scan ES-

Au₄S₆ 153 (5.662) 1: Scan ES+

Au₄S₆ 141 (5.217) 1: Scan ES+

Au₄S₆ 91 (3.360) 1: Scan ES+

Au₄S₆ 24 (0.872) 1: Scan ES+

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