

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Computed phosphine features utilized in the third optimization campaign.

File Name: Supplementary Data 2

Description: Chemspeed dispense volumes automatically generated through Python for autonomous dispensing.

File Name: Supplementary Movie 1

Description: Short recording of the Chemspeed robot deck during experimental execution.

File Name: Supplementary Movie 2

Description: Animated chart of 2-E yield over time in the second optimization campaign. Time is represented by Experiment ID. Color is correlated to reaction temperature and size is correlated to phosphine to palladium ratio.