

**Figure 1.** For a given ligand X and metal M, the map shows the reactivity and volatility of the organometallic complexes  $MX_n$  for various M-based substrates. If different M lie in different quadrants of the map, we can expect  $MX_n$  or HX to show different chemical behavior on those substrates, opening up the possibility of area-selective deposition or etch.