

**Jake Selingo**

**Senior**

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Summary:

Tetraarylmethanes contain four aryl groups (typically phenyl) bonded to a central carbon atom. They are used in a wide range of high-tech materials including OLEDs, organic solar cells, and hydrogen storage devices. Despite their importance, there are only a few methods available for their preparation. My group recently reported a general method to prepare tetraarylmethanes with all-phenyl groups and diverse substitution/electronics using an intramolecular Friedel-Crafts reaction followed by a nickel-mediated desulfurization. In this presentation, I will describe my progress toward developing a second-generation approach to tetraarylmethanes that does not require desulfurization.