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Pd-catalyzed synthesis of substituted triphenylenes by aromatic annulation

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After a decade of research, developing one-step synthetic methods for selective C-H arylation is still a massive challenge for synthetic chemists. The focus of our research, had been on designing an efficient route to access tailored triphenylenes by using palladium as catalyst and cyclic iodonium salts as annulating agent. Moreover, the work was extended to application of field-effect transistor sensor for alcohol vapor detection.

