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Diversification of Indoles via Microwave-Assisted Ligand-Free Copper-Catalyzed N-Arylation

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Abstract

A simple, efficient Cu_2O catalyst system under microwave irradiation was developed for *N*-arylation of various indoles without ligands and additives. Diverse *N*-heteroarylated indoles were prepared by coupling indoles with various heteroaryl halides within 1 h. The selective reactivity of bromoindole with aryl iodide provided *N*-aryl bromoindoles, which could be useful intermediates for palladium-catalyzed Heck and Suzuki coupling reactions.

Number of times cited: 1

- A. Reum Park and Eul Kgun Yum, Introduction of Diverse Functional Groups to Isoquinolines by Microwave-Assisted Transition Metal-Catalyzed Coupling Reactions, *Bulletin of the Korean Chemical Society*, , (2018).

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```

```
var _prum=[[id,'59e8fecb3847311aab7b23c6'],[mark,'firstbyte',(new Date()).getTime()]];function(){var s=document.getElementsByTagName('script')[0],p=document.createElement('script');p.async='async';p.src='//rum-static.pingdom.net/prum.min.js';s.parentNode.insertBefore(p,s);})();
```