

Synthesis of unsymmetrically substituted pyrene derivatives through (6-bromo-3,8-dibutylpyren-1-yl)trimethylsilane

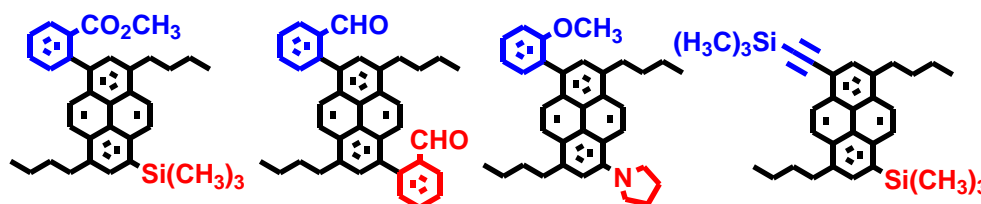
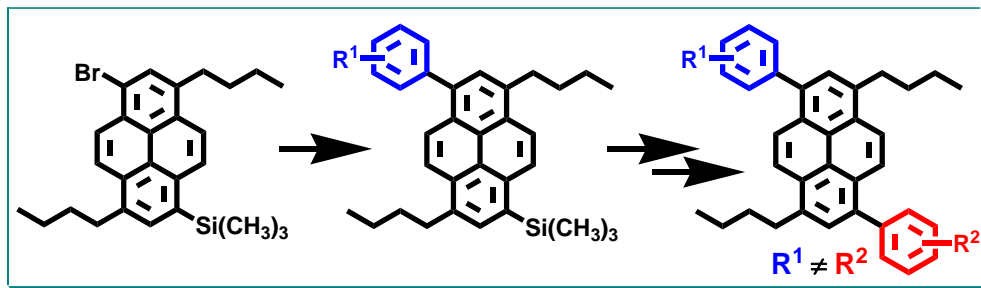
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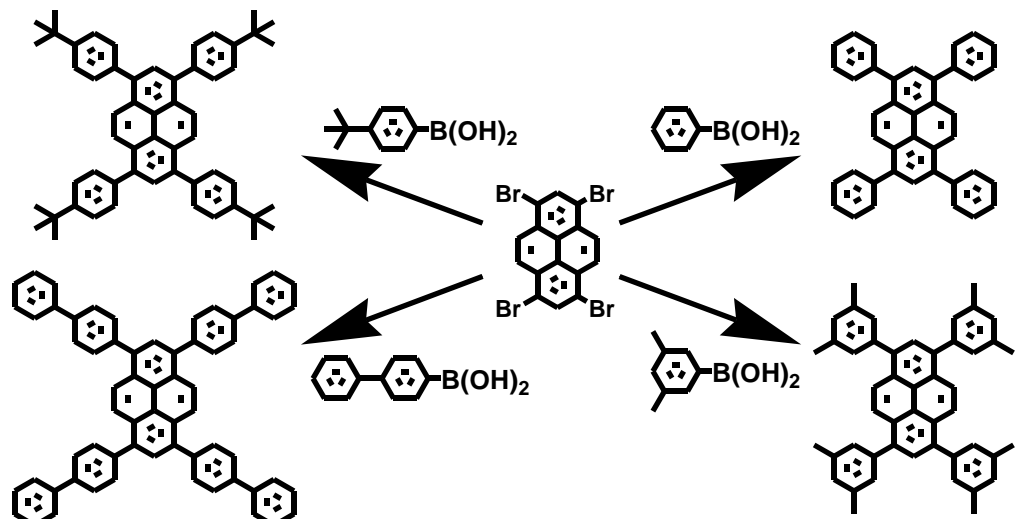


Conclusion

a) Japanese Patent Application No. 2011-021239 b) Japanese Patent Application No. 2011-205400 c) Sato, H. A.; Maeda, M.; Mihara, S.; Iwasawa, T. *Tetrahedron Lett.* **2011**, *52*, 6284-6287.

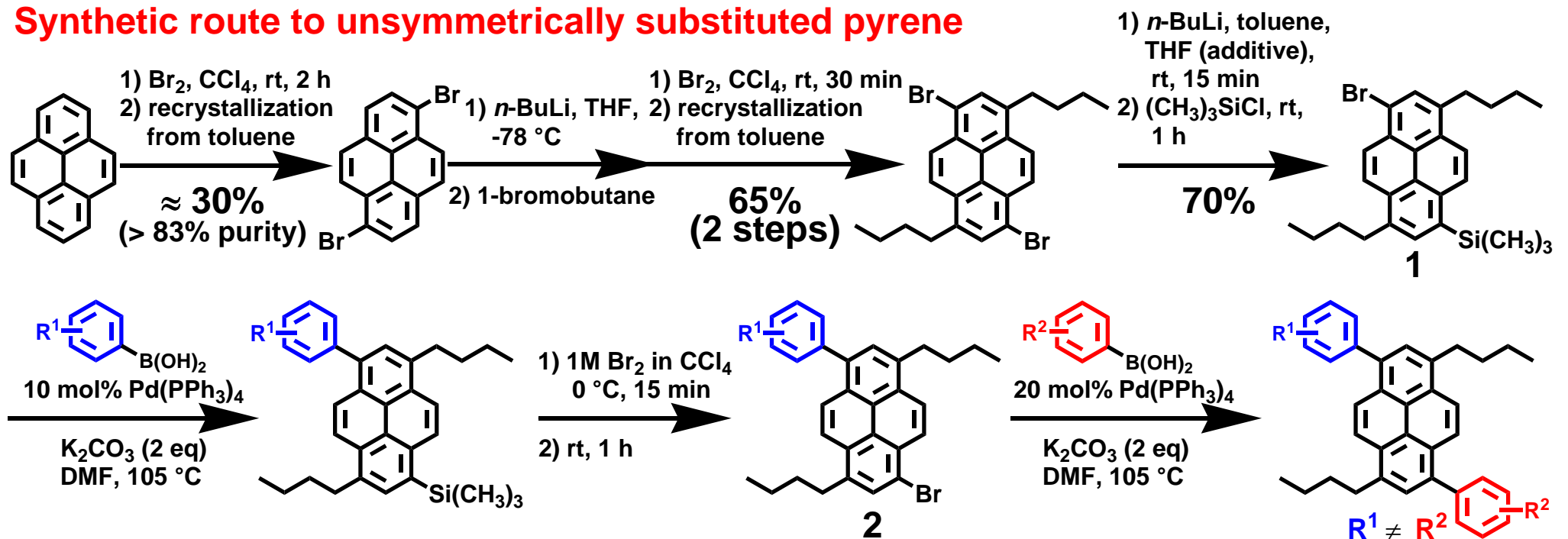


Background

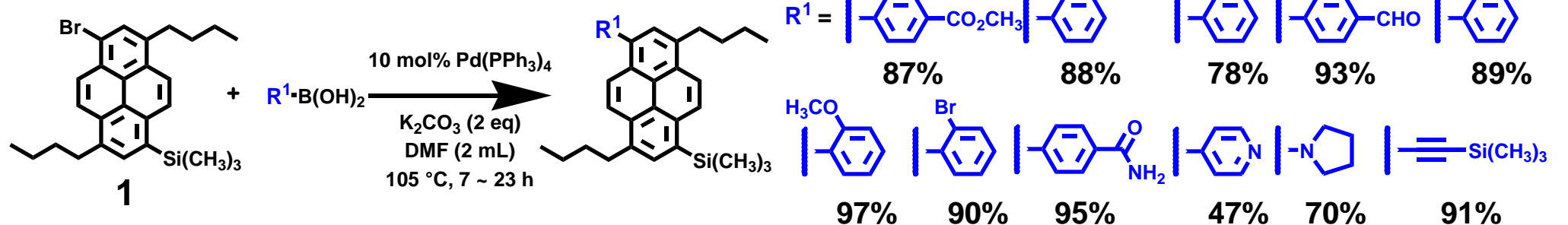


a) Bernhardt, S.; Kastler, M.; Enkelmann, V.; Baumgarten, M.; Müllen, K. *Chem.-Eur. J.* **2006**, *12*, 6117-6128. b) Figueira-Duarte, T. M.; Müllen, K. *Chem. Rev.* **2011**, *111*, 7260-7314.

Synthetic route to unsymmetrically substituted pyrene



1st cross-coupling



2nd cross-coupling

