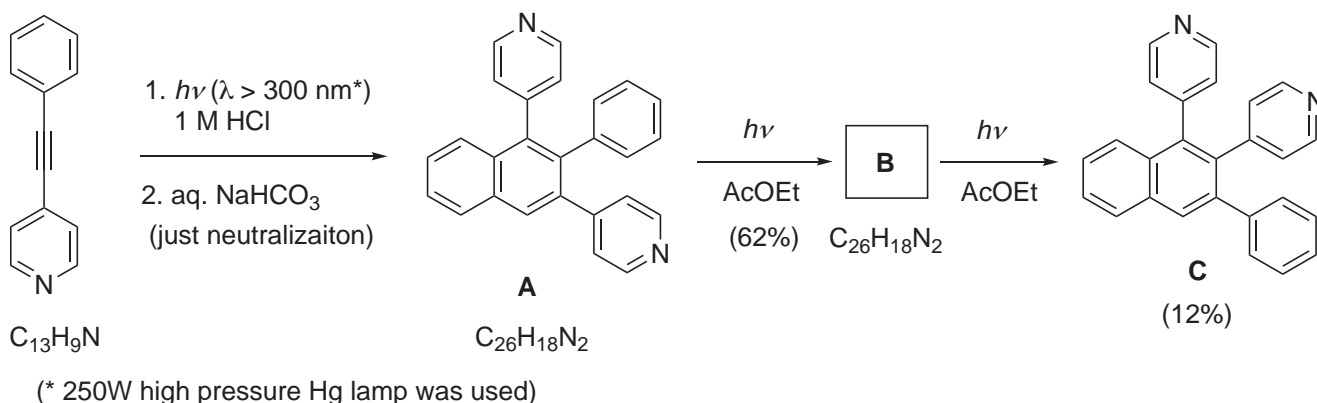
Gao, S. *et al. Org. Lett.* **2019**, *21*, 3741.

Q: Propose reasonable mechanisms of these transformations

Data for compound **B** ^1H NMR (CDCl_3): δ 8.62 (d, 2H, $J=3.2\text{Hz}$), 8.48 (s, 2H), 7.35~7.31 (m, 4H), 7.27 (d, 2H, $J=4.8\text{Hz}$), 7.21 (d, 2H, $J=5.2\text{Hz}$), 7.07 (t, 1H, $J=7.2 \text{ Hz}$), 7.05~7.01 (m, 3H), 6.98 (m, 1H), 3.37 (s, 1H); ^{13}C NMR (CDCl_3): δ 150.4, 149.8, 146.7, 146.2, 141.5, 130.7, 129.0, 128.8, 128.3, 125.1, 124.8, 124.5, 122.7, 120.2, 120.1, 70.2, 67.6, 57.2, 44.4; HRMS (ESI⁺) calcd for $\text{C}_{26}\text{H}_{19}\text{N}_2^+$ [$\text{M}+\text{H}$]⁺: 359.1543, found, 359.1544.Data for compound **C** ^1H NMR (CDCl_3): δ 8.56 (d, 2H, $J=3.2\text{Hz}$), 8.24 (d, 2H, $J=3.6\text{Hz}$), 8.03 (s, 1H), 8.00 (d, 1H, $J=8.4\text{Hz}$), 7.63~7.60 (m, 1H), 7.49 (d, 2H, $J=3.6\text{Hz}$), 7.24~7.22 (m, 3H), 7.18~7.14 (m, 4H), 6.83 (d, 2H, $J=4.8\text{Hz}$); ^{13}C NMR (CDCl_3): δ 149.4, 148.7, 147.9, 147.2, 140.5, 139.0, 136.1, 135.0, 133.0, 130.7, 129.9, 129.8, 128.2, 128.0, 127.1, 127.0, 126.3, 126.1; HRMS (ESI⁺) calcd for $\text{C}_{26}\text{H}_{19}\text{N}_2^+$ [$\text{M}+\text{H}$]⁺: 359.1543, found, 359.1545.F. Li, S. Zhang, H. Hao, D. Chen, J. Zhuang *Tetrahedron Lett.* **2019**, *60*, 1416-1420.