

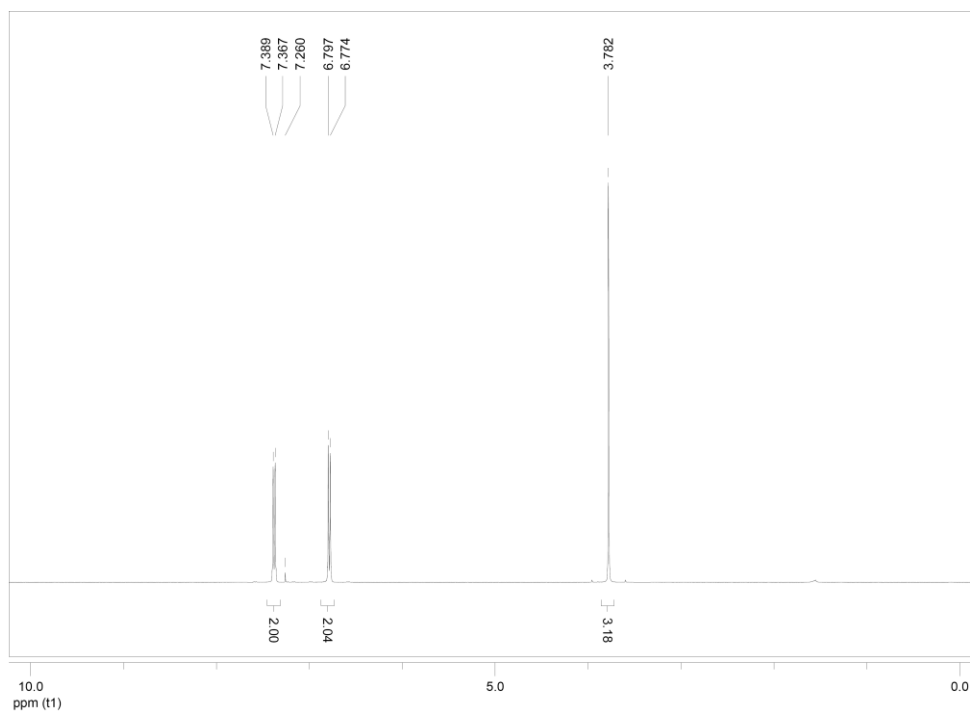
Supplementary Materials

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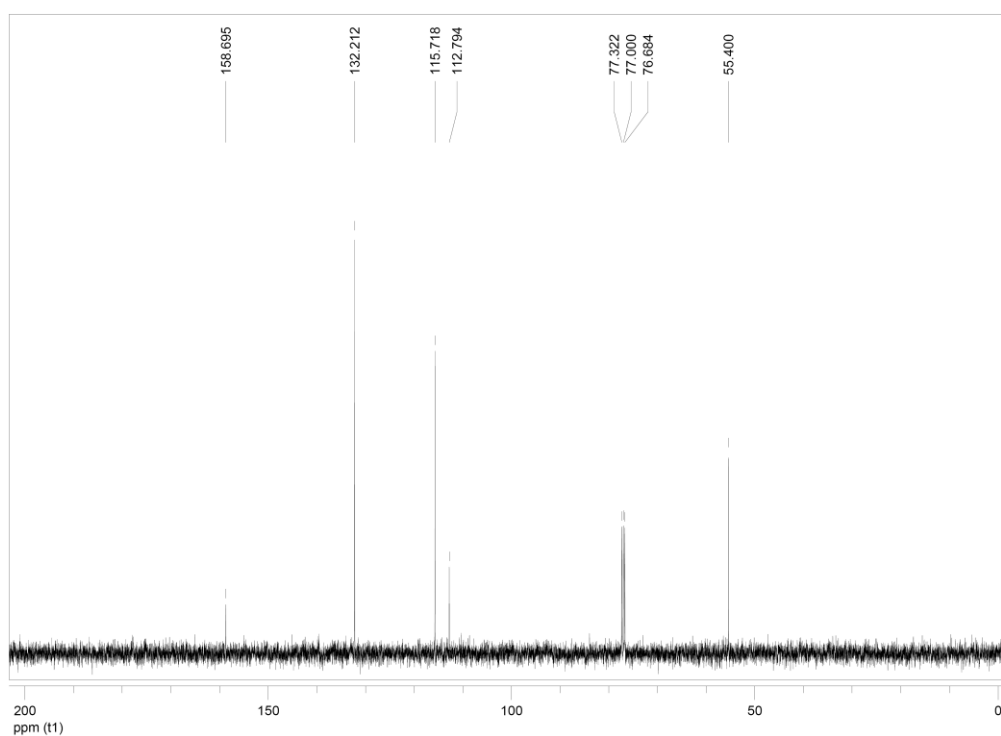
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1. NMR Spectra

Compound **6a** ^1H -NMR (400 MHz, CDCl_3).



Compound **6a** ^{13}C -NMR (100 MHz, CDCl_3).



For the NMR Spectra of compound **18a**, see the Supporting Information of the following paper:

1. Wu, Y.C.; Liron, M.; Zhu, J.P. Asymmetric total synthesis of (–)-quinocarcin. *J. Am. Chem. Soc.* **2008**, *130*, 7148–7152.

For the NMR Spectra of compound **22a**, see the Supporting Information of the following paper:

2. Wu, Y.C.; Bernadat, G.; Masson, G.; Couturier, C.; Schlama, T.; Zhu, J.P. Synthetic studies on (–)-lemonomycin: An efficient asymmetric synthesis of lemonomycinone amide. *J. Org. Chem.* **2009**, *74*, 2046–2052.

For the NMR Spectra of compound **28a** and compound **28b**, see the Supporting Information of the following paper:

3. Wu Y.C.; Zhu, J.P. Asymmetric total syntheses of (–)-renieramycin M and G and (–)-jorumycin using aziridine as a lynchpin. *Org. Lett.* **2009**, *11*, 5558–5561.

2. Diagram of Calculation Targets

Figure S1. Charge distribution of the arenium ion.

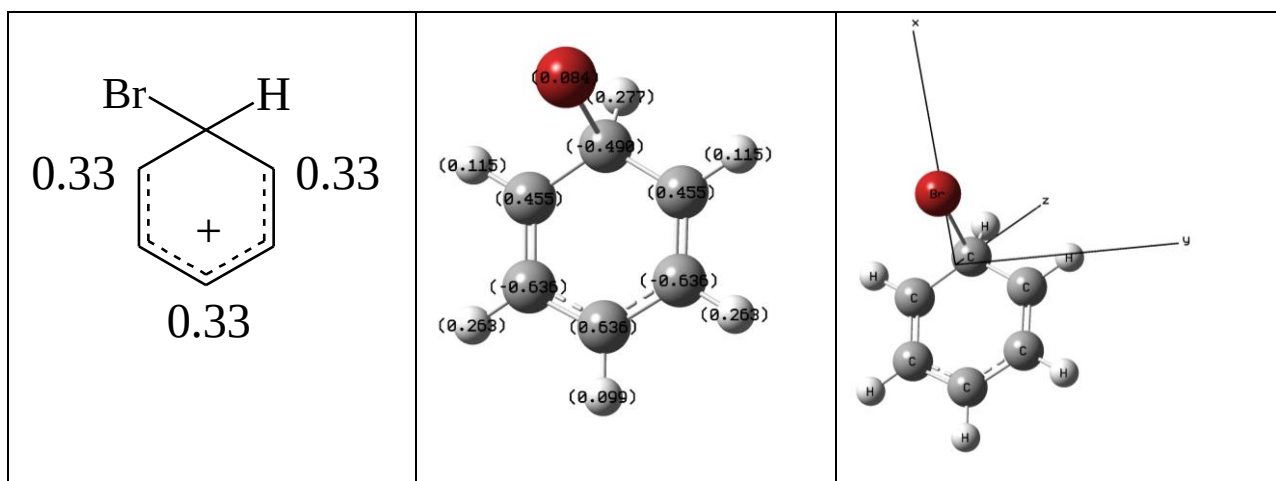


Figure S2. Total of electronic energy (Hartree) of the transition-state of the *ortho*-isomer product in the electrophilic aromatic bromination of anisole.

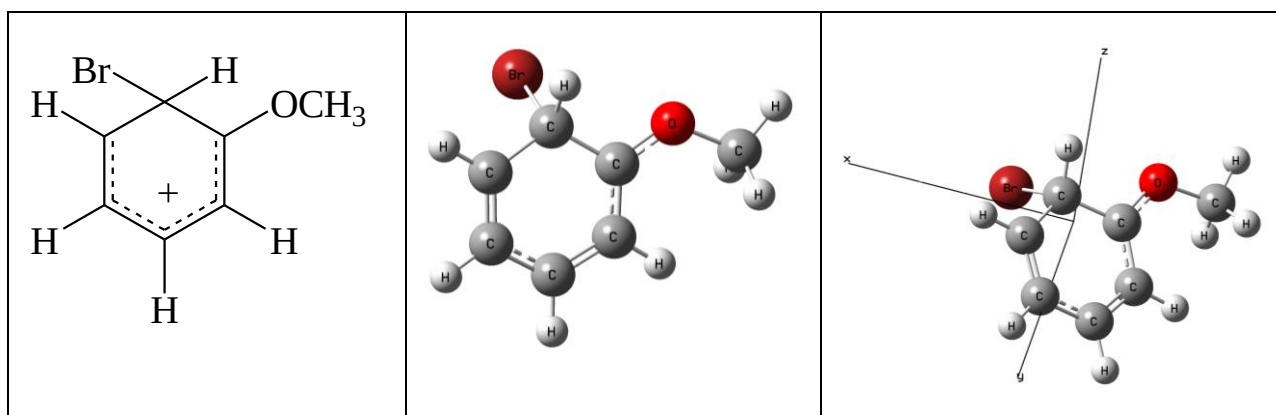


Figure S3. Total of electronic energy (Hartree) of the transition-state of the *meta*-isomer product in the electrophilic aromatic bromination of anisole.

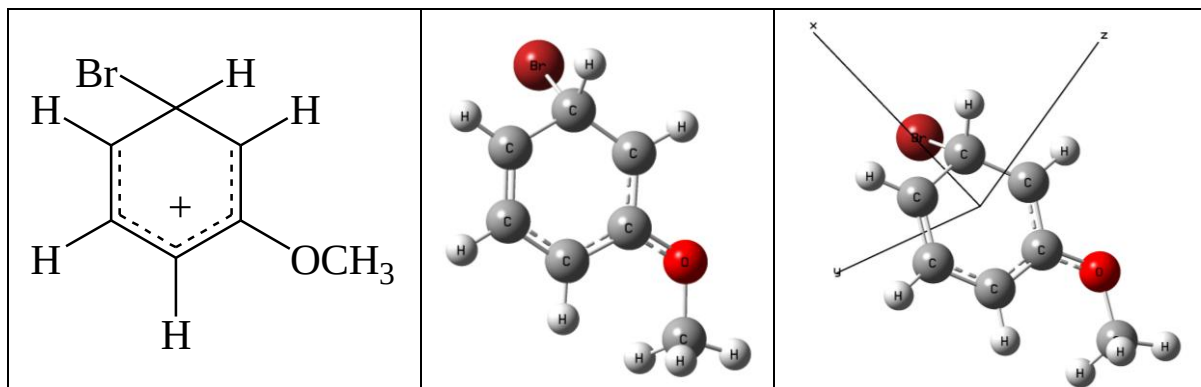


Figure S4. Total of electronic energy (Hartree) of the transition-state of the *para*-isomer product in the electrophilic aromatic bromination of anisole.

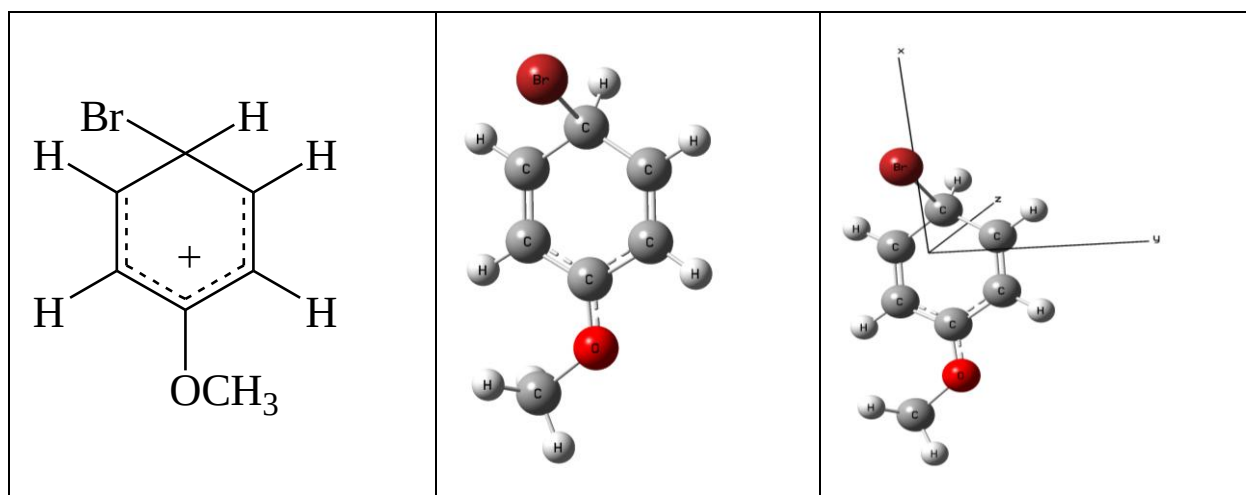


Figure S5. Total of electronic energy (Hartree) of the *ortho*-isomer product in the electrophilic aromatic bromination of anisole.

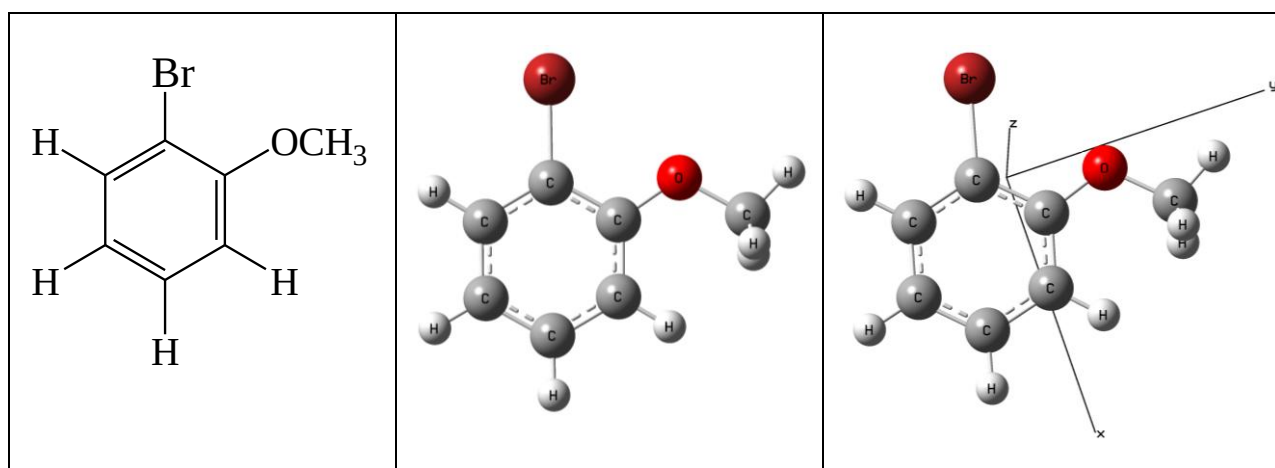


Figure S6. Total of electronic energy (Hartree) of the *meta*-isomer product in the electrophilic aromatic bromination of anisole.

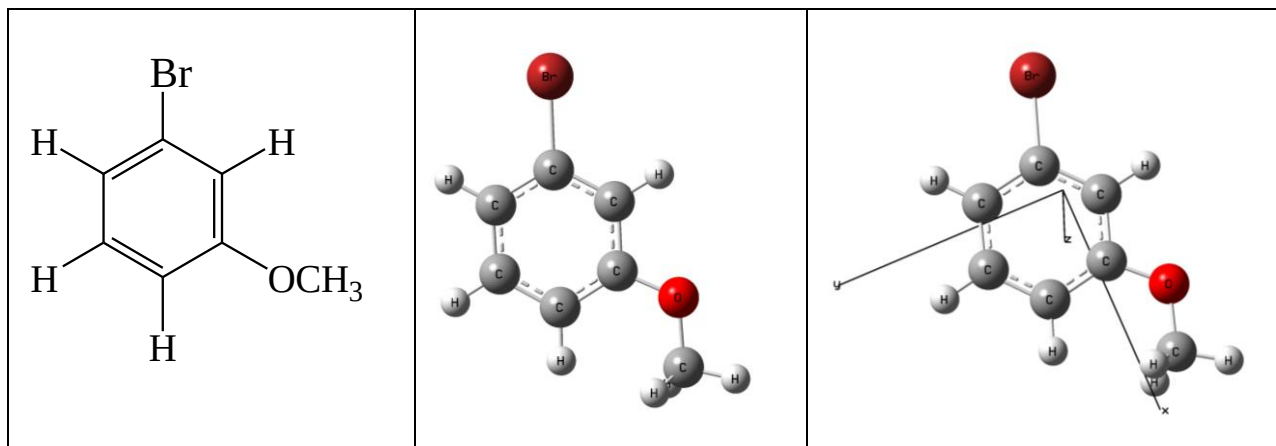


Figure S7. Total of electronic energy (Hartree) of the *para*-isomer product in the electrophilic aromatic bromination of anisole.

