

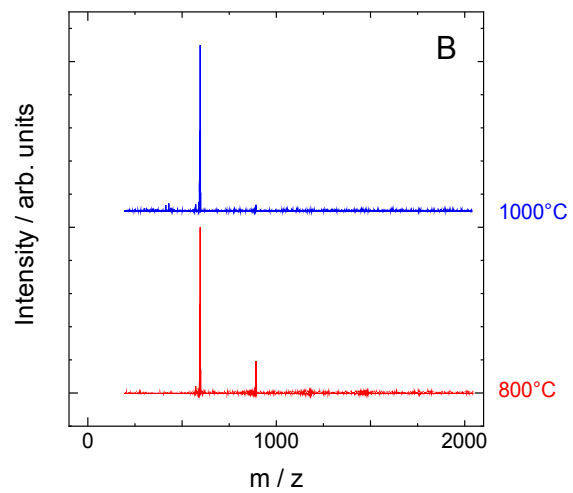
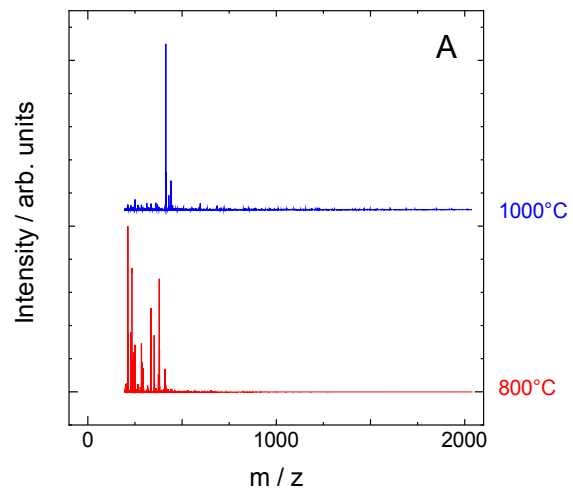
Electronic Supplementary Information

## Sodium ion battery anode properties of designed graphene-layers synthesized from polycyclic aromatic hydrocarbons

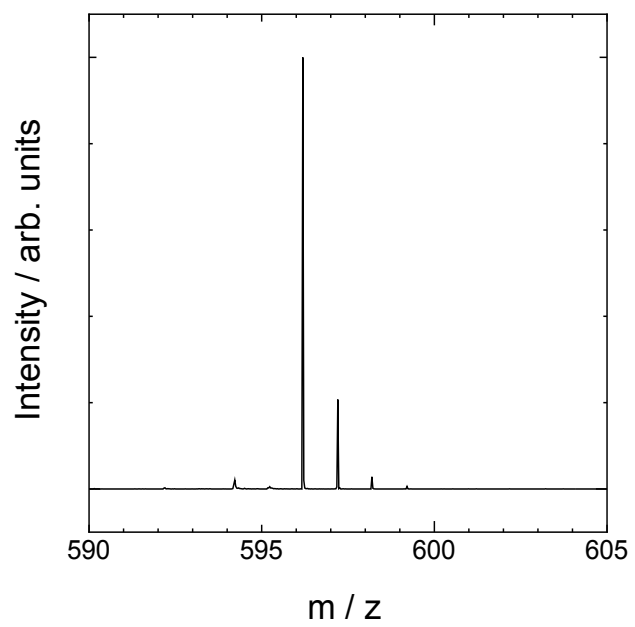
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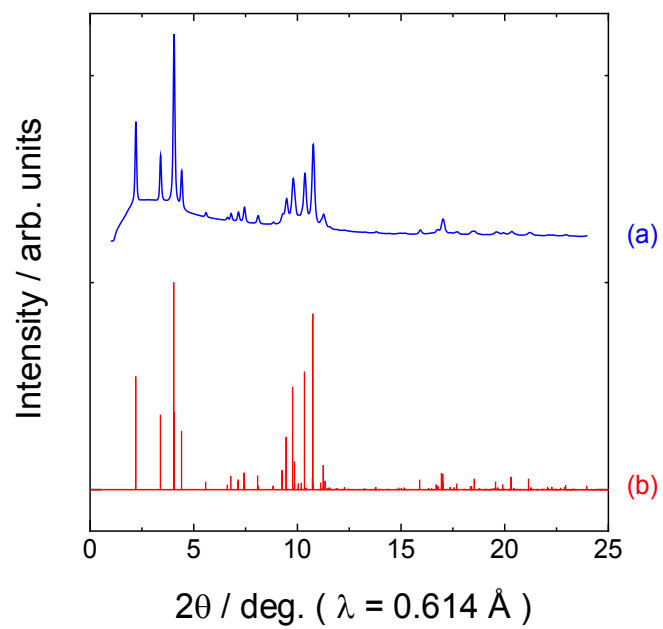
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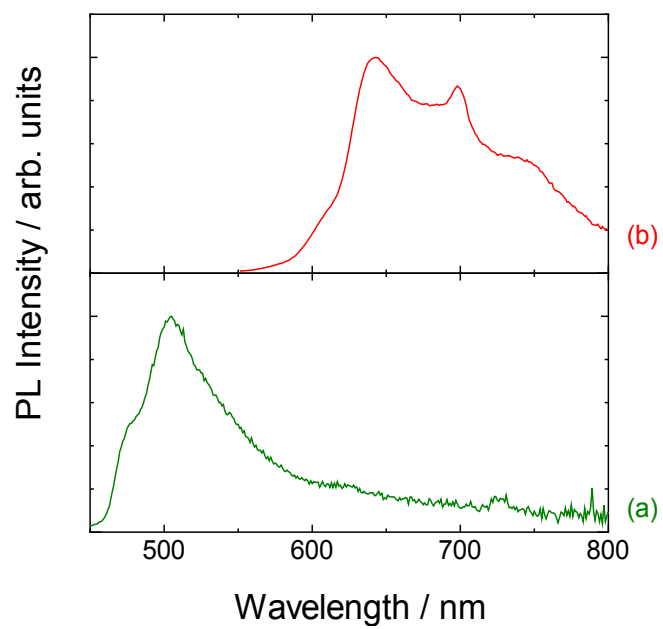
**Figure S1.** LDI-TOF-Mass spectra of heat-treated (A) pentacene and (B) coronene samples.



**Figure S2.** LDI-TOF-Mass spectra of the obtained dicoronylene sample.



**Figure S3.** (a) observed and (b) simulated XRD diffraction patterns of dicoronylene.



**Figure S4.** Photoluminescence spectra of (a) coronene and (b) dicoronylene sample.