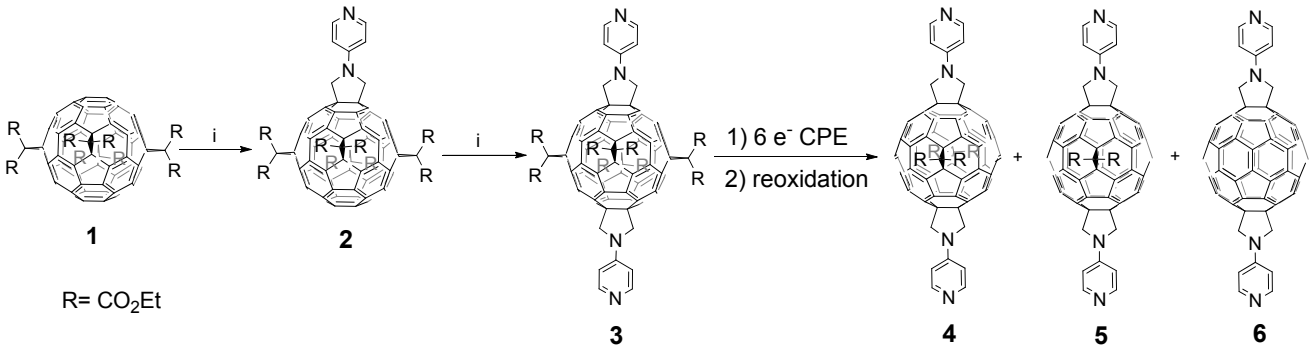
Supplementary Material (ESI) for Journal of Materials Chemistry

Supplementary Information

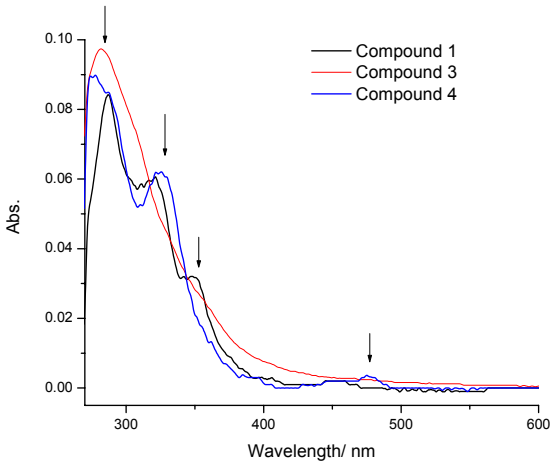
Unexpected and selective formation of an (*e*,*e*,*e*,*e*)-*tetrakis*-[60]fullerene derivative *via* electrolytic retro-cyclopropanation of a D_{2h}-*hexakis*-[60]fullerene adduct

Angy L. Ortiz,[a] and Luis Echegoyen*[a]

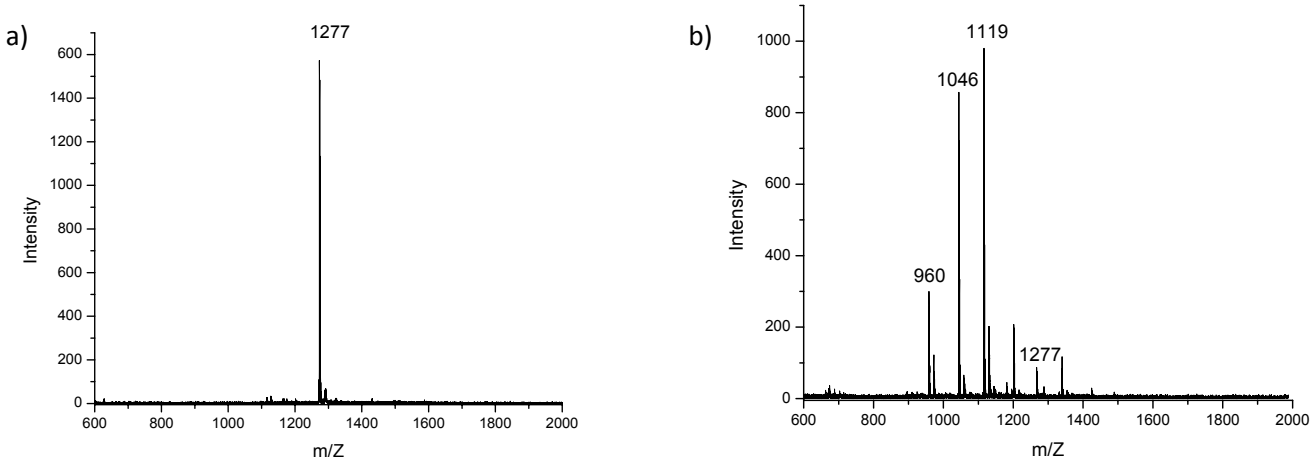
1. **Scheme 1.** Retro-cyclopropanation of **3** by control potential electrolysis (CPE). i) Pyridine glycine, paraformaldehyde, *o*-dichlorobenzene, reflux, Ar.



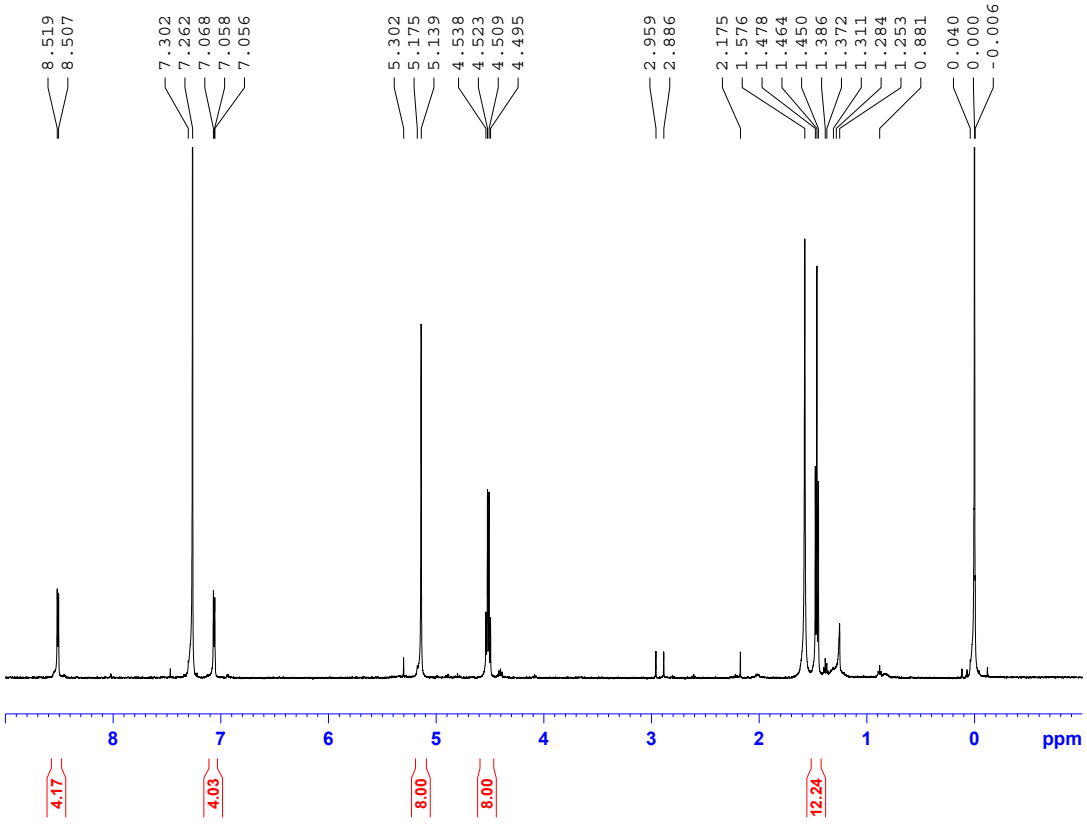
2. UV-vis spectrums of compounds **1**, **3** and **4** in CH_2Cl_2.



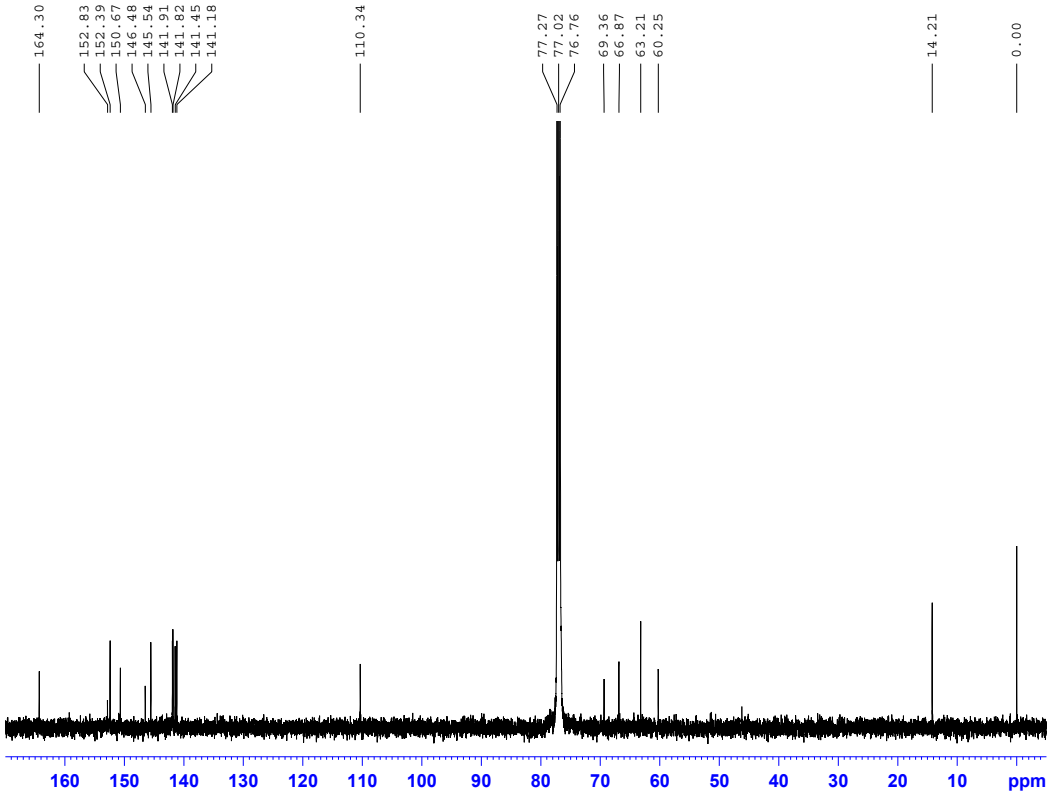
3. MALDI-TOF MS spectrums: a) compound **4** and b) reaction crude after CPE of **3**. *m/Z*: 1277 (- 2 malonates groups); 1119 (- 3 malonates groups) and 960 (- 3 malonates groups).



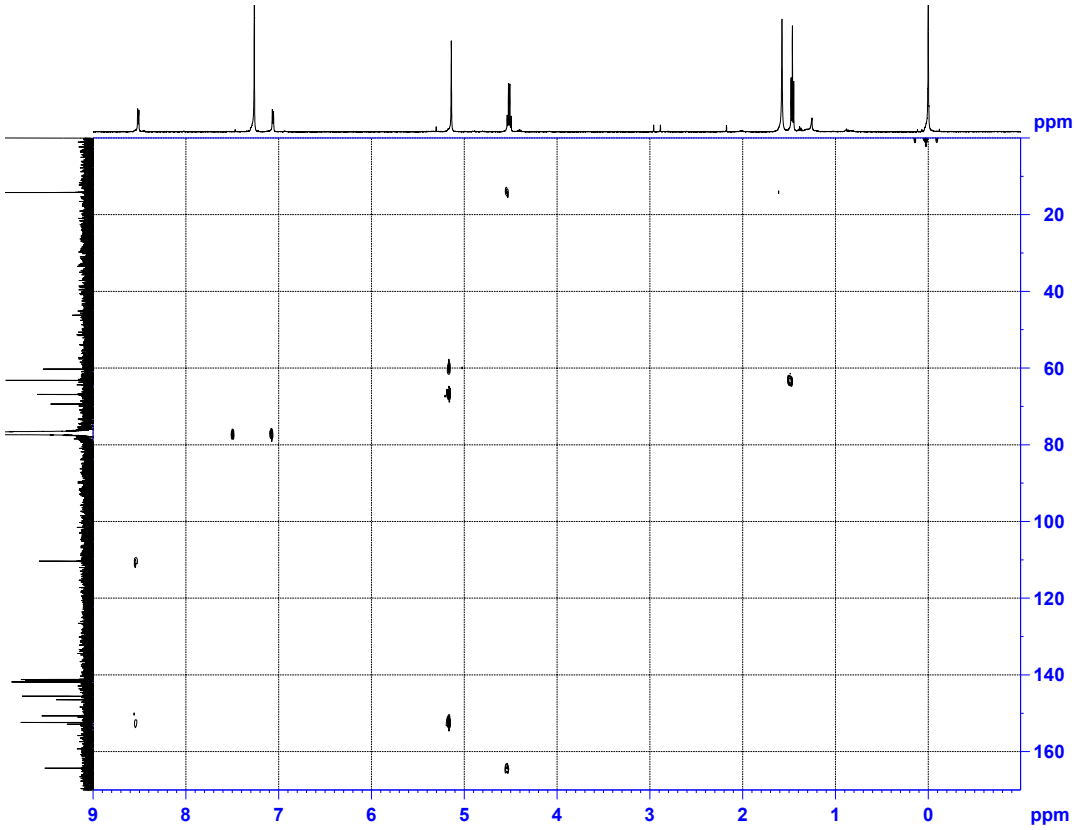
4. ^{1}H-NMR of compound **4**.



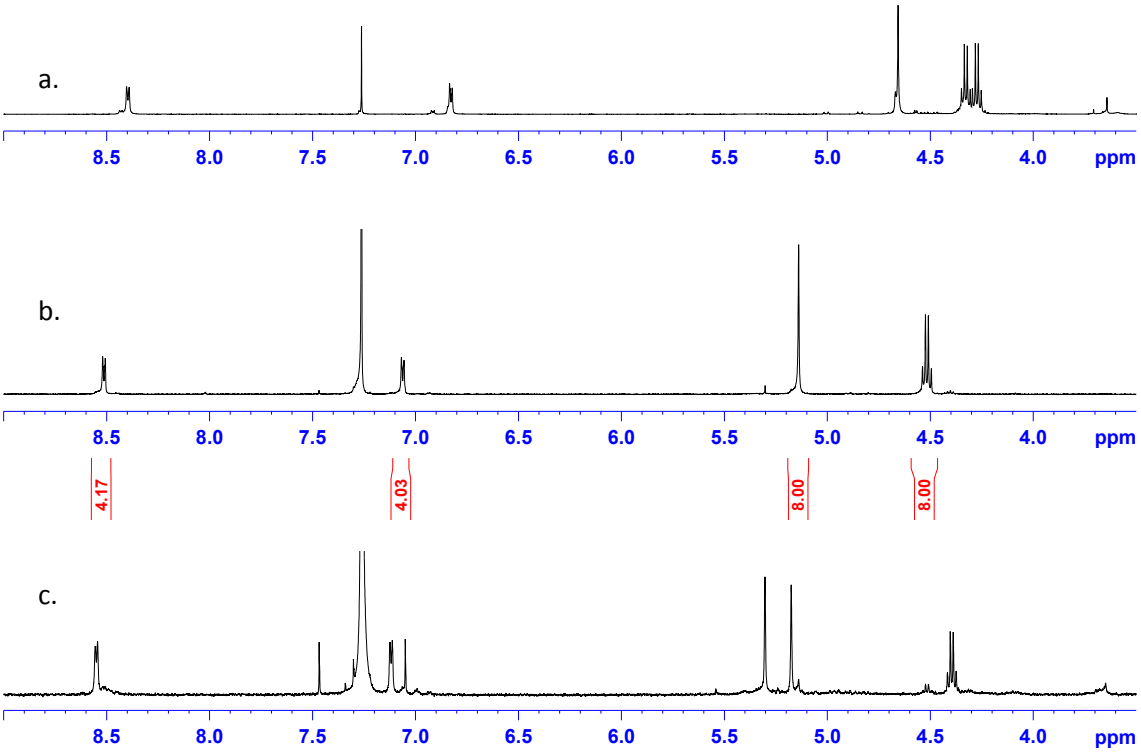
5. ^{13}C-NMR of compound **4**.



6. HMBC-NMR of compound **4**.



7. ^{1}H-NMR spectrums of: a) compound **3**; b) compound **4** and c) compound **5**.



8. ^{1}H-NMR spectrums before and after CPE of compound **4**.