



Toward fully organic rechargeable charge storage devices based on carbon electrodes grafted with redox molecules

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Auteur	Lebègue, Estelle [1], Brousse, Thierry [2], Gaubicher, Joël [3], Retoux, Richard [4], Cougnon, Charles [5]
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Résumé en anglais	Activated carbon powders modified with naphthalimide and 2,2,6,6-tetramethylpiperidine-N-oxyl were assembled into a hybrid electrochemical capacitor containing an organic electrolyte. The fully organic rechargeable system demonstrated an increase in specific capacitance up to 51%, an extended operating voltage of 2.9 V in propylene carbonate, compared to 1.9 V for the unmodified system, and a power 2.5 times higher.
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