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## White Polymer Light-Emitting Electrochemical Cells – Strategies for Obtaining White Emission from a Single Emission Layer.

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Polymer light-emitting electrochemical cells (PLECs) are area-lighting devices having a simple structure consisting of an active layer sandwiched between two electrodes. Because PLECs have a single-layer structure and are thus easier to manufacture, the technologies used to obtain white emission should make the most of this advantage. We have developed effective methods for obtaining white emission from a single emission layer. In one, a mixed layer consisting of blue light-emitting FCP and orange-red light-emitting materials was used and white emission was obtained by controlling Förster-type resonance energy transfer.[1,2] In the other, white light-emission originating from exciplexes was obtained by using a mixed layer consisting of blue light-emitting FCP and  $\pi$ -conjugated amine molecules.[3]

1. Y. Nishikitani et al., *J. Phys. Chem. C* **119**, 28701 (2015).
2. Y. Nishikitani et al., *Org. Electron.*, **51**, 168 (2017).
3. Y. Nishikitani et al., *J. Appl. Phys.* **118**, 225501 (2015).

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