



Solution-processable single-material molecular emitters for organic light-emitting devices

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Auteur	Zhu, Xu-Hui [1], Peng, Junbiao [2], Cao, Yong [3], Roncali, Jean [4]
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Résumé en anglais	<p>This tutorial review presents some recent developments in the design, synthesis and implementation of organic solution-processable molecular fluorophores for non-doped electroluminescent light-emitting devices. After a brief presentation of the basic principles of operation and main characteristics of electroluminescent devices, some examples of active emitters representative of the main classes of non-doped molecular electrofluorophores will be discussed. Emphasis is placed on the relationships between the molecular structure and the electronic properties of molecular emitters, in which high photoluminescence efficiency, synthetic accessibility and processability are combined by design with additional functions such as hole and/or electron injection and transport.</p>
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Liens

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