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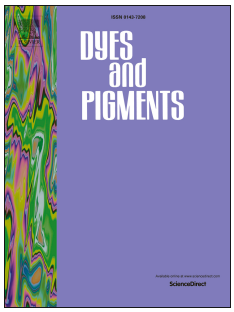

Synthesis of carboline-based host materials for forming copper(I) complexes as emitters: A promising strategy for achieving high-efficiency and low-cost phosphorescent organic light-emitting diodes

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