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Altri autori (Persone)	SiebbelesLaurens D. A GrozemaFerdinand C
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Sommario/riassunto	As functional elements in opto-electronic devices approach the singlemolecule limit, conducting organic molecular wires are the appropriateinterconnects that enable transport of charges and charge-like particles such as excitons within the device. Reproducible syntheses and athorough understanding of the underlying principles are therefore indispensable for applications like even smaller transistors, moleculararmachines and light-harvesting materials. Bringing together experiment and theory to enable applications in real-life devices, this handbookand ready reference provides ess