

Development of electrochromic devices using
 π -conjugated polymers

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The electrochromic devices combining high contrast ratios, fast response times, and narrow potential windows of application with the perspective for long-term optical stability has been investigated. We demonstrated high performance electrochromic device using n-type conjugated polymer PDPP-TBT { Poly[3,6-bis-(thiophene-5-yl)-N,N'-bis(2-octyl-1-dodecyl)-1,4-dioxo-pyrrolo[3,4-c]pyrrole-alt-4',7'-benzothiadiazole] }.