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Single and double branched organic dyes based on carbazole and red-absorbing cationic indolium for p-type dye-sensitized solar cells: A combined experimental and theoretical investigation

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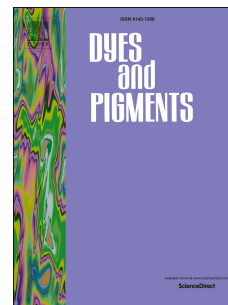
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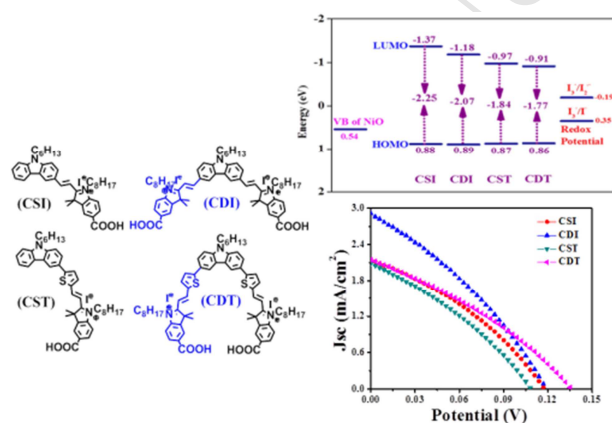
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Graphical Abstract**Single and double branched organic dyes based on carbazole and red-absorbing cationic indolium for p-type dye-sensitized solar cells: a combined experimental and theoretical investigation**

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Double branched dyes showed better interfacial charge transfer and hole lifetime over single branched dyes leading to enhanced photovoltaic performance.



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