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A Brief discussion on Hole-Transport Materials in Solar energy Conversion

S. Sarveswari*

Centre for organic and medicinal chemistry, School of advanced sciences, VIT University, Vellore-14, Tamil nadu, India.

Abstract: This review article highlights the development in the field of solid-state DSSC as an economical renewable energy resource. To harvest the solar energy the solar cells are being fabricated, with five main components among them a liquid redox electrolyte has been replaced with a solid-state hole-transporter material (HTM). Among the reported hole transport materials 2,2,7,7-tetrakis(N,N-di-*p*-methoxyphenylamine)9,9-spirobifluorene (Spiro-OMeTAD) reported to achieve 19.3% efficiency. In this review it was attempted to emphasis the developments in the design and synthesis of organic molecules and polymers to achieve an improved power conversion efficiency (PCE).

Key words: Organic molecules, alternative energy, Solar energy conversion, HTM.

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