

Bipodal dyes with bichromic triphenylamine architectures for use in dye-sensitized solar cell applications

Abdi O.K.

Fischer B.J.D.

Al-Faouri T.

Buguis F.L.

Devgan H.S.

Schott E.

Zarate X.

Koivisto B.D.

A family of four bipodal triphenylamine-based dyes, three of which incorporate two triphenylamine (TPA) units, have been studied to understand their potential in light-harvesting applications.

Compared to previously reported TPA-based dyes, these exhibit improved device performance.

Theoretical calculations correlate excited state dipole moments to device efficiency. © 2019 The Royal Society of Chemistry.