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Influence of molecular distortion on the exciton quenching for quaterthiophene-terminated self-assembled monolayers on Au(111)

Hiroyuki S. Kato , Yoshinari Murakami , Riyo Saitoh , Yuji Osumi ,
Daijiro Okaue , Yoshiaki Kiriya , Takahiro Ueba ,
Takashi Yamada , Yutaka Ie , Yoshio Aso , Toshiaki Munakata

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Highlights

- We found n -parity-dependent lifetime τ for photoexcited 4T-(CH₂) _{n} S-SAMs on gold.
- Independent of n , the quenching is due to an excitation energy transfer mechanism.
- The n parity dependence of τ results from conformation change of -(CH₂) _{n} S- chains.
- Importance of molecular design even in aliphatic parts for organic device is shown.

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