

Synthesis and Properties of Luminophores Derived from Fluorinated Biphenyls

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Abstract—A procedure was developed for the synthesis of dimethyl 2-fluoro- and 2,2'-difluorobiphenyl-4,4'-dicarboxylates. The latter were converted into fluorinated 4,4'-bis[(E)-2-(1,3-benzoxazol-2-yl)ethenyl]- and 4,4'-bis[5-(4-octyloxyphenyl)-1,3,4-oxadiazol-2-yl]biphenyls which showed strong luminescence in the crystalline state and in solution; their spectral properties were examined.

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