

Title (en)
EMISSIVE MULTICHROMOPHORIC SYSTEMS

Title (de)
EMITTIERENDE MULTICHROMOPHORISCHE SYSTEME

Title (fr)
SYSTEMES MULTICHROMOPHORQUES EMISSIFS

Publication
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Abstract (en)
[origin: WO02104072A2] Synthetic multichromophoric systems exhibiting low energy fluorescent excited states in which the transition dipoles of the pigment building blocks are correlated in defined phase relationships are provided. The polarized nature of these singlet excited states can be maintained over long (ns) timescales. In preferred embodiments ethyne- and butadiyne- bridged multiporphyrin species that manifest high excited-state anisotropies display exceptionally large emitting dipole strengths, establishing a new precedent for superradiant oligopigment assemblies.

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