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Photophysics of solar fuel materials

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2015

document version

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citation for published version (APA)

Ravensbergen, J. (2015). *Photophysics of solar fuel materials*.

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List of abbreviations

Car	carotenoid
CB	conduction band
Chl	chlorophyll
DADS	decay associated difference spectrum
EADS	evolution associated difference spectrum
EET	excitation energy transfer
ESA	excited state absorption
ET	electron transfer
GSB	ground state bleach
HOMO	highest occupied molecular orbital
IC	internal conversion
IRF	instrument response function
LUMO	lowest unoccupied molecular orbital
NPQ	nonphotochemical quenching
OPA	optical parametric amplifier
Pc	phthalocyanine
PC	Pockels cell
PCET	proton-coupled electron transfer
PEC	photoelectrochemistry
pKa	acid dissociation constant
Por	porphyrin
PSD	power spectral density
PSII	photosystem II
PV	photovoltaics
qE	quenching of excitation energy
SCE	saturated calomel electrode
SDG	signal delay generator
SE	stimulated emission
SI	supporting information
TAS	transient absorption spectroscopy
THF	tetrahydrofuran
TLC	thin layer chromatography
Tyr	Tyrosine-Z
VB	valence band