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Time-Resolved Spectroscopy of Energy Transfers in Optoelectronic Media

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Symbols and Abbreviations

Greek symbols

α	absorption coefficient
ε	dielectric constant
δ	Dirac delta function
η	quantum efficiency
λ	wavelength
μ	micro-
ν	frequency
ξ	envelope function
π	number pi
σ	excitation cross section
τ	lifetime
ϕ	flux
ψ	wave function
ω	angular frequency

Abbreviations

BE	Bound Exciton
CB	Conduction Band
CMOS	Complementary Metal Oxide Semiconductor
c-Si	crystalline Si
DLTS	Deep-Level Transient Spectroscopy
EL	ElectroLuminescence
FE	Free Exciton
FEL	Free Electron Laser
FWHM	Full Width at Half Maximum
LO	Longitudinal Optical
(M)IR	(Mid-)InfraRed

viii Symbols and Abbreviations

PL(E)	PhotoLuminescence (Excitation)
RE	Rare Earth
(SS)MBE	(Solid Source) Molecular Beam Epitaxy
TO	Transversal Optical
TR	Time-Resolved
VB	Valence Band