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Filename Symbols and abbreviations

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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 |