

Abbreviations

ARP	adiabatic rapid passage
BS	beam splitter
CBG	circular Bragg grating
CCD	charge-coupled device
CdSe	cadmium selenide
CdTe	cadmium telluride
cQED	cavity quantum electrodynamics
CW	continuous wave
DBR	distributed Bragg reflector
DNSP	dynamic nuclear spin polarization
EID	excitation-induced dephasing
F_p	Purcell factor
FPI	Fabry–Perot interferometer
FSS	fine-structure splitting
FWHM	full width at half maximum
GaAs	gallium arsenide
HBT	Hanbury–Brown and Twiss
HOM	Hong–Ou–Mandel
ICP-RIE	inductively coupled plasma reactive ion etching
InAs	indium arsenide
InGaAs	indium gallium arsenide
InP	indium phosphide
MBE	molecular beam epitaxy
MCA	multi channel analyzer
MOVPE	metalorganic vapor-phase epitaxy
MZI	Mach–Zehnder interferometer
NA	numerical aperture
NRC	nonresonant QD-cavity coupling
OH	Overhauser field
PCFS	photon-correlation Fourier spectroscopy
PBS	polarizing beam splitter
PSB	phonon side bands
PD	pure dephasing
PhC	photonic crystal
PhCWG	photonic crystal waveguide
PIC	photonic integrated circuit
PL	photoluminescence
μ -PL	microphotoluminescence
QD	quantum dot
QCSE	quantum confined Stark effect
RIE	reactive ion etching
SD	spectral diffusion
SIL	solid-immersion lens
SNSPD	superconducting nanowire single-photon detector
SPLED	single-photon light emitting diode
SPS	single-photon source
TAC	time-to-amplitude converters

TCSPC	time-correlated single-photon counting
TIR	total internal reflection
TLS	two-level system
TPE	two-photon excitation
TPI	two-photon interference
X	exciton
X^+, X^-	positive, negative trion (or positively, negatively charged exciton)
XX	biexciton
ZnSe	zinc selenide
ZnTe	zinc telluride
ZPL	zero-phonon line