

Center for Integrated Quantum Materials Wiki



Welcome to the Center for Integrated Quantum Materials Wiki

GLOSSARY of TERMS

Artificial Atoms

Band Gap

Bulk State

Carrier Density

Carrier Depletion

Capacitance

Chemical Vapor Deposition (CVD)

Complementary Metal-oxide-semiconductor (CMOS)

Confocal Laser Scanning Fluorescence Microscopy

Coupling

Doping

Dynamic Actuation

Electrical Double Layers (EDLs)

Entanglement

Epitaxial Growth

Excitons

Far-infrared

Ferromagnetic

Fractional Quantum Hall Effect (FQHE)

Dielectrophoretic Transduction

Gapless Semiconductor

Graphene: is pure carbon in the form of a very thin, nearly transparent sheet, one atom thick. It is remarkably strong for its very low weight (100 times stronger than steel) and it conducts heat and electricity with great efficiency.

Hexagonal Boron Nitride

Hot Filament Chemical Vapor Deposition (HFCVD)

In-situ

Laser Reflectance Interferometer

Majorana Fermions

Monolayer

Nanobeams

Nanodiamond
Nanopillar
Nitrogen Vacancy Center
Noise Margin
Optical Cavities
Optical-pump Terahertz-probe Spectroscopy
Photoconductivity
Photonic Crystals
Piezoelectric Stage
Plasmonic Crystals
Plasmonic Resonance
Quantum Anomalous Hall Effect (QAHE)
Quantum Hall Effect (QHE)
Quantum Information Processing
Quantum Networks
Raman Spectroscopy
Reactive Ion Etching
Scanning Electron Microscopy (SEM)
Spin Dependent Fluorescence
Spin Orbit Coupling
Spintronic
Substrate
Thin Films
Topological Insulator (TI)
Topological Crystalline Insulators (TCI)
Topological Field Effect Transistor
Topological Phase Transition
Transitional Metal Dichalcogenides (TMDCs)
van der Waals Heterostructures
Waveguides
Zero Phonon Line (ZPL)