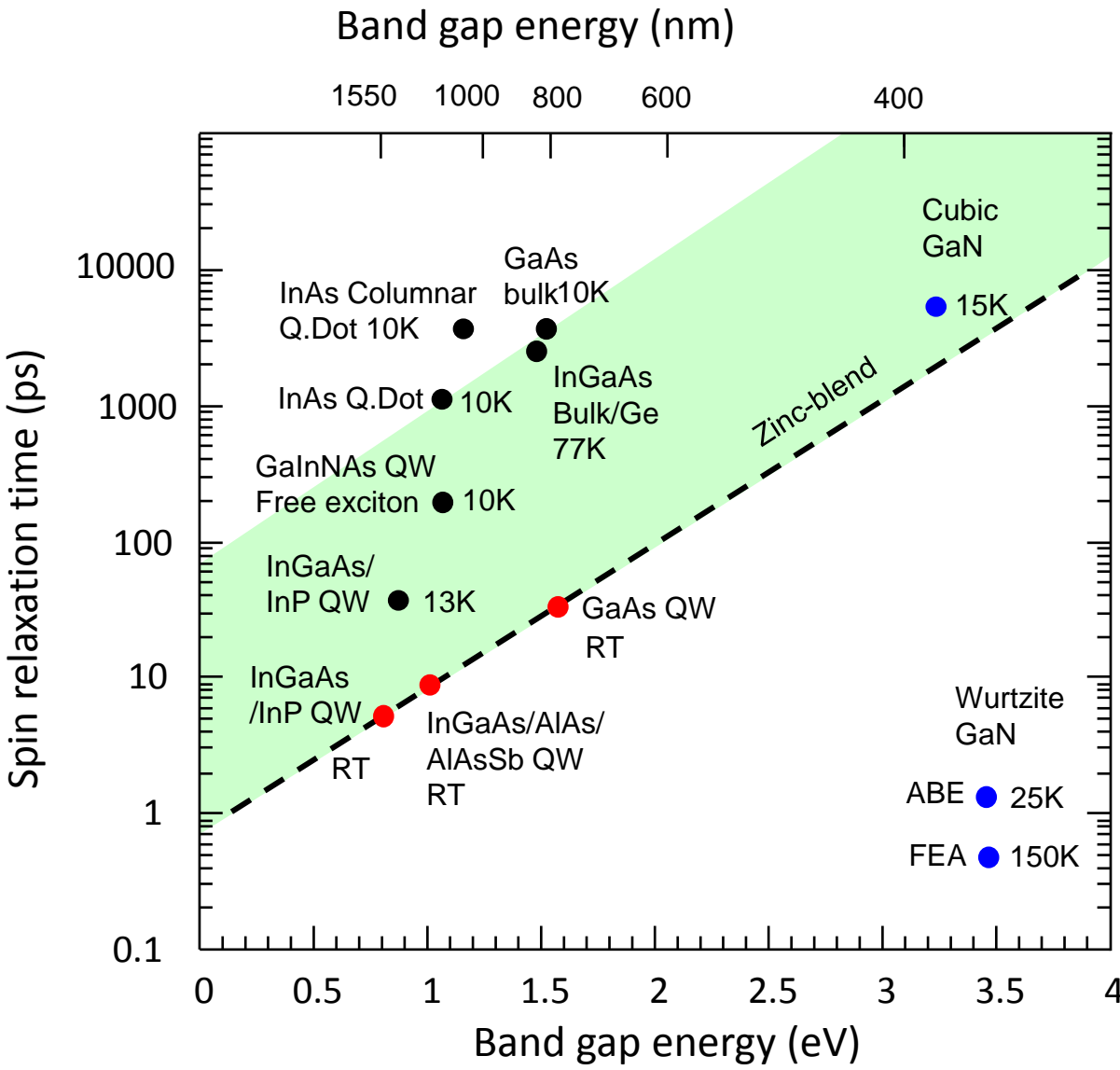


# Spin relaxation time vs Bandgap energy



InGaAs bulk/Ge substrate  
APL 100, 252414 (2012)

InGaAs/AIAsSb QW  
APL 100, 092401 (2012)

GaInNAs/GaAs QW  
APL 92, (2008) 051908

InAs Q.Dot & GaAs bulk  
APL 84 (2004) 3576

InGaAs/InP QW  
APL 70, 1131 (1997)

InGaAs/InP QW  
APL 85, 2083 (2004)

GaAs/AlGaAs QW  
APL 56, 2213 (1990)  
APL 68, 797 (1996)

Wurtzite GaN  
FEA: APL 85, 3116 (2004)  
ABE: APL 89, 182110 (2006)

Cubic GaN  
APL 88, 162114 (2006)

In the zinc-blend structure spin relaxation time becomes shorter for narrower band-gap semiconductors. It is because the spin-orbit interaction which is the origin of D'yakonov-Perel process becomes larger for the narrower band gap semiconductors. Tackeuchi Lab. Waseda Univ. Japan