List of Tables

3.1	Theoretical and experimental values of lattice constant (a) and energy band gap.	64
5.1	Adsorption and Gibbs free energy at different basal sites of LiMgAs with and without spin-orbit interactions (SOI)	142
5.2	Adsorption and Gibbs free energy at different sites of zig-zag nanoribbon	
	configuration	144
5.3	Adsorption and Gibbs free energy at different sites of planar nanoribbon	
	configuration	144
5.4	Gibbs free energy and exchange current density for various materials	146