

LIST OF TABLES

Table No.	Title	Page No.
2.1	Classification of organic dye and their applications	10
2.2	Some recent and important hydrothermally prepared graphene metal oxide hybrid with reaction time and particle size	18
3.1	X-ray diffraction parameter of different oxidized GO	23
4.1	Comparison of adsorption capacity of organic dyes on GO reported in literature and present study	39
4.2	Gibbs free energy for adsorption of MB onto GO with different degrees of oxidation	43
4.3	Thermodynamic parameters for adsorption of MB onto GO with different degrees of oxidation	44
4.4	Adsorption isotherm constants of GO samples with different degree of oxidation	46
8.1	Rate constant of different semiconductor-two dimensional carbon nano hybrids	114