

Supporting Information

Controlling and Formation Mechanism of Oxygen-containing Groups on Graphite Oxide

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Table S1. Chemical states of C and O atoms on GO-1, GO-2, GO-3 and GO-4 with their binding energy (B.E./eV) and FWHM (F.M.)

samples	C-C/C-H		C-OH		C-O-C		C=O		O=C-O		O _I		O _{II}		O _{III}	
	B.E.	F.M.	B.E.	F.M.	B.E.	F.M.	B.E.	F.M.	B.E.	F.M.	B.E.	F.M.	B.E.	F.M.	B.E.	F.M.
GO-1	284.6	1.2	285.5	1.2	286.6	1.1	288.0	1.9	-		531.4	1.4	532.5	1.4	533.6	1.5
GO-2	284.6	1.2	285.5	1.2	286.6	1.2	288.0	1.9	290.1	2.0	531.3	1.4	532.4	1.4	533.6	1.5
GO-3	284.4	1.4	285.5	1.2	286.6	1.3	288.0	1.9	290.1	2.0	531.3	1.4	532.4	1.4	533.6	1.5
GO-4	284.5	1.4	285.5	1.2	286.6	1.2	288.0	1.9	290.1	2.0	531.4	1.4	532.4	1.4	533.6	1.5