Supplementary information:

Experimental review: Chemical reduction of graphene oxide (GO) to reduced graphene oxide (rGO) by aqueous chemistry

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Table S1. Assignment and relative percentage of the functionalities arising from the deconvolution of the C 1s XPS spectra.

Sample	Peak BE (eV)	%	Functionalities
GO	284.6	27.11	C–C (sp^2)
	285.6	16.28	C–C (sp^3)
	286.9	46.65	C–O
	288.8	9.95	C=O
$rGO_{2'}$	284.5	46.96	C–C (sp^2)
	285.3	19.86	C–C (sp^3)
	286.8	24.42	C–O
	288.9	8.76	C=O
$rGO_{4'}$	284.6	50.62	C–C (sp^2)
	285.3	22.45	C–C (sp^3)
	286.9	17.98	C–O
	288.8	8.95	C=O
$rGO_{8'}$	284.6	54.28	C–C (sp^2)
	285.7	25.03	C–C (sp^3)
	287.0	11.54	C–O
	288.8	9.15	C=O
$rGO_{16'}$	284.6	57.00	C–C (sp^2)
	285.5	23.54	C–C (sp^3)
	286.9	11.65	C–O
	288.8	7.81	C=O
$rGO_{32'}$	284.6	59.72	C–C (sp^2)
	285.6	22.05	C–C (sp^3)
	287.0	11.76	C–O
	288.8	6.47	C=O
$rGO_{64'}$	284.6	58.96	C–C (sp^2)
	285.6	22.07	C–C (sp^3)
	287.0	12.28	C–O
	288.9	6.69	C=O
$rGO_{128'}$	284.6	58.19	C–C (sp^2)
	285.6	22.09	C–C (sp^3)
	287.0	12.80	C–O
	288.9	6.91	C=O
$rGO_{192'}$	284.6	64.42	C–C (sp^2)
	285.6	21.95	C–C (sp^3)
	287.0	8.45	C–O
	288.9	5.19	C=O
$rGO_{1440'}$	284.6	63.40	C–C (sp^2)
	285.6	21.77	C–C (sp^3)
	286.9	9.18	C–O
	288.8	5.65	C=O