

Supplementary information for H S Lee, M A Bratescu, T Ueno, N Saito

*Solution plasma exfoliation of graphene flakes from graphite electrodes*

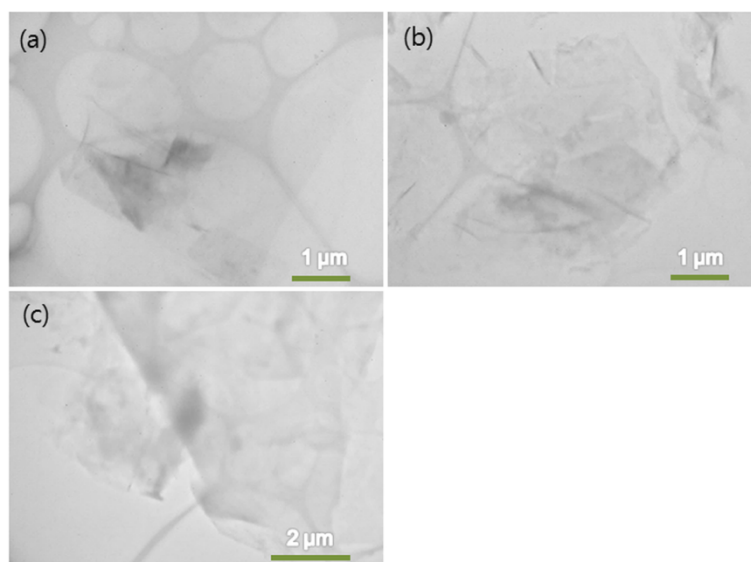


Figure S1 Disordered multilayers images at low-magnification TEM observed in graphene flakes.

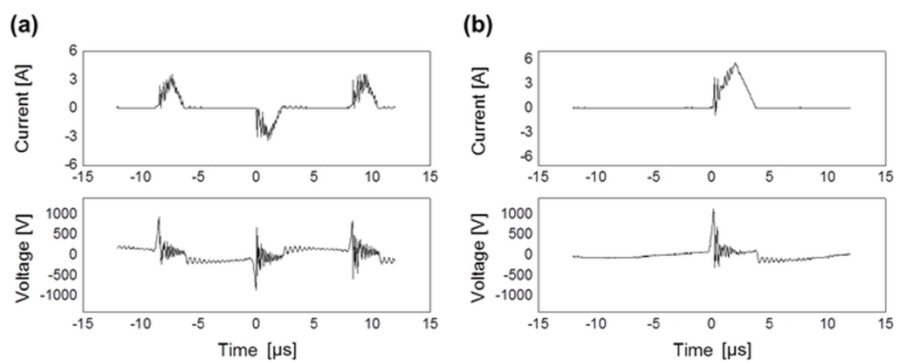


Figure S2 Typical current and voltage waveforms during production of (a) carbon onions and (b) graphene flakes by solution plasma processing.

Table S Identification of the excited species in OES [1S, 2S].

Species	$\lambda$ (nm)	Transition
H $_{\alpha}$	656.3	3d $\rightarrow$ 2p
H $_{\beta}$	486.1	4d $\rightarrow$ 2p
H $_{\gamma}$	434.0	5d $\rightarrow$ 2p
O	777.4	$^5P \rightarrow ^5S^0$
	844.6	$^3P \rightarrow ^3S^0$
C	247.8	$^1P^0 \rightarrow ^1S$
Si	288.1	$^1P^0 \rightarrow ^1D$
CH	389.0	B $^2\Sigma \rightarrow X^2\Pi$
CO	243.4	A $^1\Pi \rightarrow X^1\Sigma$
	251.1	A $^1\Pi \rightarrow X^1\Sigma$
	263.0	A $^1\Pi \rightarrow X^1\Sigma$
	643.3	d $^3\Delta \rightarrow a^3\Pi$
C $_2$	473.7	A $^3\Pi_g \rightarrow X'^3\Pi_u$
	516.5	A $^3\Pi_g \rightarrow X'^3\Pi_u$

[1S] Radzig AA, Smirnov BM, *Reference Data on Atoms, Molecules, and Ions*, Springer, 1985.

[2S] Pearse RWB and Gaydon AG 1976 *The Identification of Molecular Spectra*, Chapman and Hall (London, New York)