Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A. This journal is © The Royal Society of Chemistry 2014 Charge Total co

al [	s © The Royal Soc	iety of Che	mistry 2014 Reversible	Charge	Total cycle	Degradation	Sulfur	Ref.
		discharg	discharge	rate	number	rate per	Loading	
		e	capacity	(mA/g)		cycle		
		Capacity	(mAn/g)					
	SULEUN	1000-	520 (300 <sup>th</sup> .	335 (0 2C)	>500	0.24%	65 wt%	Current
		1400	0.2C)	3350 (2C)		(0.2C)	$(2mq/cm^2)$	work
			290 (500 <sup>th</sup> ,	( )		0.36% (2C)	( )	
			0.2C)					
ł	S-TiO <sub>2</sub> volk-shell		400 (230°, 20)				53 wt %	12
	nanocomposite	1,030	690	836	1,000	0.033%	0.4–0.6	
				(C/2)			mg/cm <sup>2</sup>	
	Solvent-in-salt	1,041	770	335 (C/5)	100	0.26%	48 wt %	15
	Ordorod							27
	mesonorous C-S	1,070	700	1675 (1C)	100	0.35%	57 wt %	
ł								28
	Double-shelled C-	1,020	690	167 (C/10)	100	0.32%	45 wt %	20
								10
	composite	1,071	974	836 (C/2)	100	0.09%	65 wt %	19
İ	Hollow CNF-						~1.0 mg /	25
	encapsulated S	~1,400	730	836(C/2)	150	0.48%	cm <sup>2</sup>	
ł	Amphinhilic							29
	surface-modified	828	~660	836 (C/2)	300	0.07%	~1.0 mg /	
	hollow CNF-S	020		000 (0/2)			cm <sup>2</sup>	
ľ	Ultrasound-							30
	assisted S-C with	1,195	836	230	100	0.30%	29 wt %	
	fluorinated ether							
	S molecules in a	1 670	1 142	167.5 (C/	200	0 16%	32 wt %	31
	C/CNT matrix	1,070	1,172	10)	200	0.1070	02 Wt 70	
	Li-S with				>300	0.0011%		14
	interlayers with	1,483	600 and 1000	335 (C/5)	(600mAh/g)	(600mAh/g)	70 wt%	
	modified recharge	,		(	>200 (1000mAb/a)	0.0027%		
l	setting				(1000IIIAII/g)	(1000IIIAII/g)		











Fig. S5







