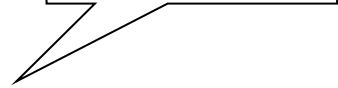
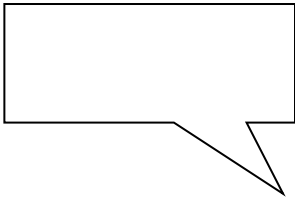
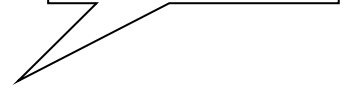
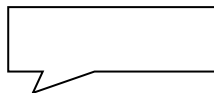


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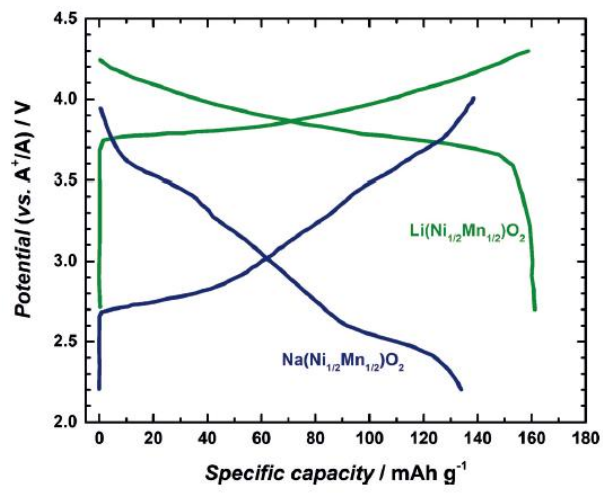
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1. LiNi

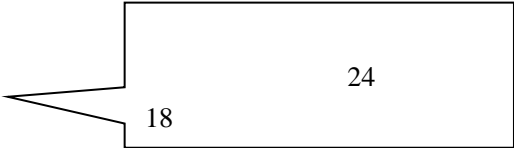
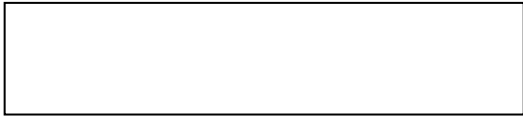
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1.1 Si@SiO_x/C 300

Table 1.1 Summary of specific capacities of lithiation/delithiation, Coulombic efficiency for the first cycle, and capacity retention ratio after 300 cycles of Si@SiO_x/C nanocomposite electrodes with different oxide layer thickness

	300	300			
	(mAh g ⁻¹)	(mAh g ⁻¹)			
	(%)	(mAh g ⁻¹)			
	(%)	(%)			
	2289	1891	83	709	37
	2580	2129	83	40	2
600°C, 20 min	2400	1968	82	159	8
750°C, 20 min	2209	1777	80	783	44
750°C, 30 min	1950	1595	82	120	8
750°C, 40 min	1658	1329	80	306	23
750°C, 60 min	1049	813	78	625	77
850°C, 5 min	1061	776	73	733	94
850°C, 20 min	459	279	61	387	139



[1] . []. , .
[2] . []. , , .
[3] . [XX]. , .
[4] . [M]. , 2008, 1-12.
[5] J. M. Tarascon, M. Armand. Issues and challenges facing rechargeable lithium batteries[J]. Nature, 2011, 414(6861):359-367.

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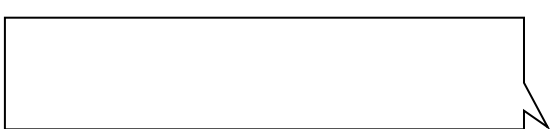
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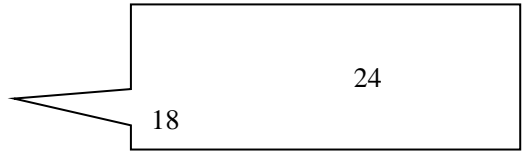
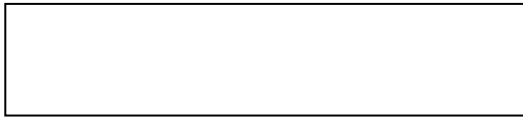
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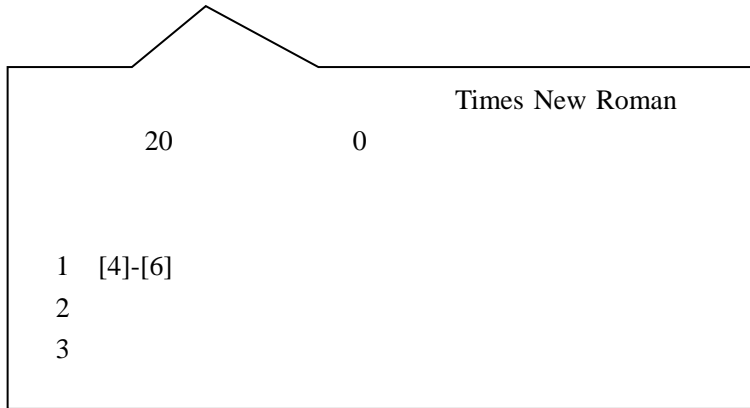
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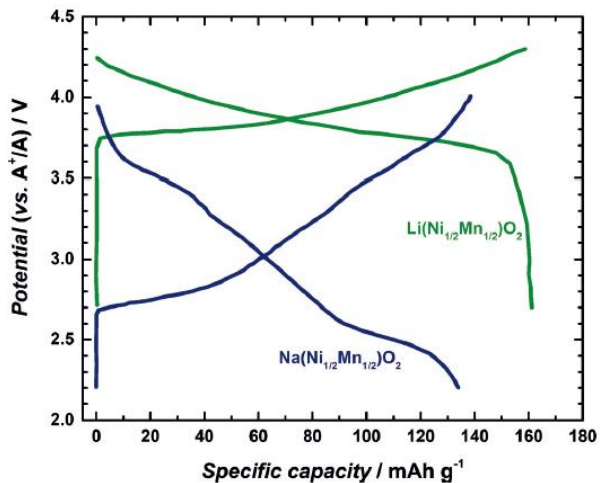
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1. $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ $\text{NaNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$

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1.

$\text{Si@SiO}_x/\text{C}$

300

300

300

	(mAh g ⁻¹)	(mAh g ⁻¹)	(%)	(mAh g ⁻¹)	(%)
	2289	1891	83	709	37
	2580	2129	83	40	2
600°C, 20 min	2400	1968	82	159	8
750°C, 20 min	2209	1777	80	783	44
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750°C, 40 min	1658	1329	80	306	23
750°C, 60 min	1049	813	78	625	77
850°C, 5 min	1061	776	73	733	94
850°C, 20 min	459	279	61	387	139

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