

1, 2, 3, 3, 3, 1

(1. 132013;

2. 136000;

3. 130012)

:  $Li^+$   $NiO$   $Ni^{2+}$   $Li_{0.29}Ni_{0.71}O$   $Li^+$   $Ni^{2+}$

EIS

$Li_{0.29}Ni_{0.71}O$   $NiO$

$Li_2O$

SEI

:

: O469

: A

: 1671-5489(2013)01-0120-04

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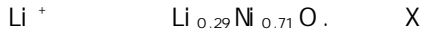
(1. 132013, ;

2

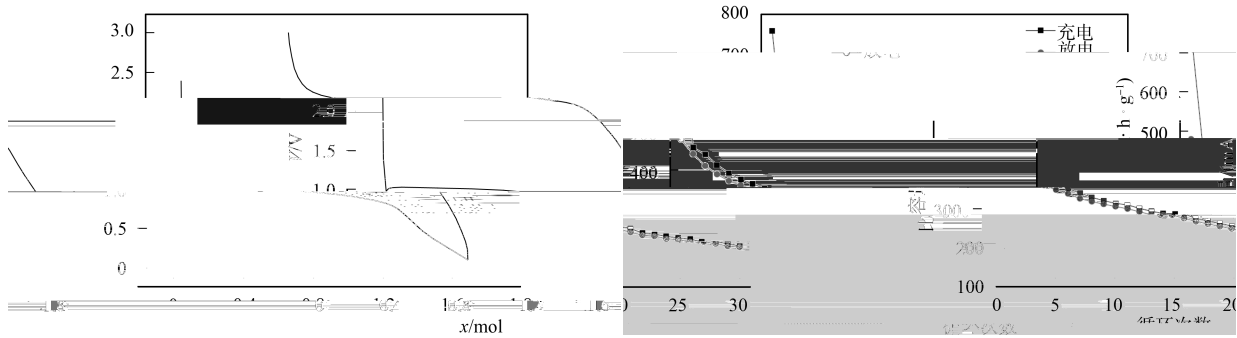
136000, ;

3. 1300

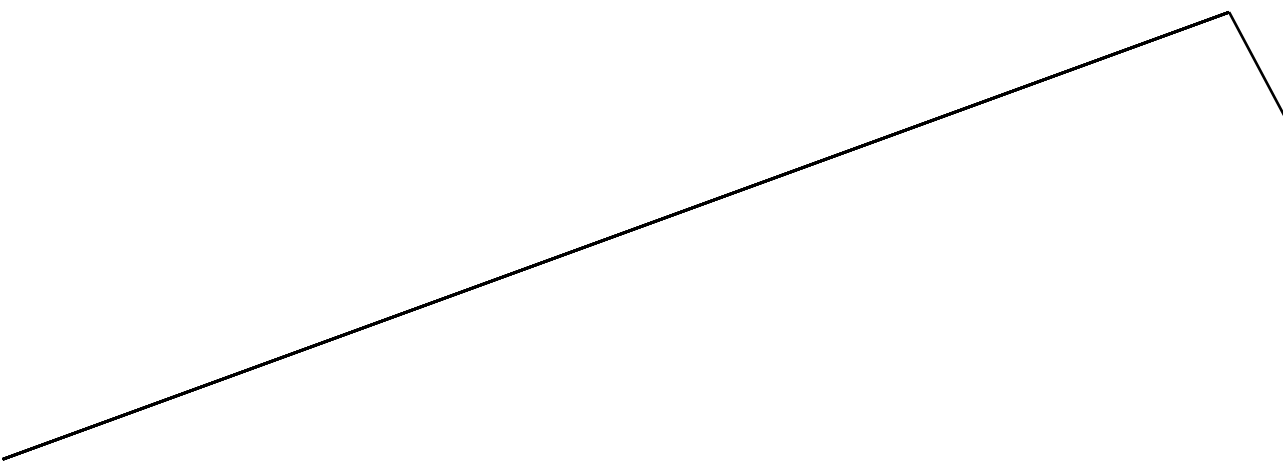
i

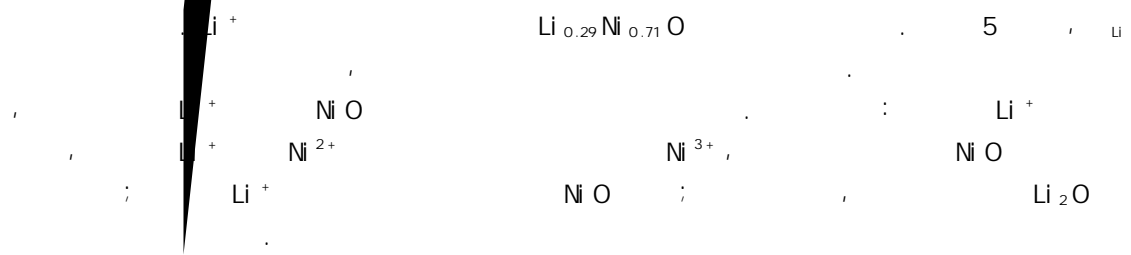


$\text{Li}_{0.29}\text{Ni}_{0.71}\text{O}$       (      )      (      ) = 2      ,      4 h  
 .      400      2 h ,      650      48 h .  
 1 / min .      ,      .      200      .  
 Bruker AXS      X      (      )      . X  
 [15] ,      Ni O      ,       $\frac{1}{3}$   
 = = = 0 415 nm . Li Ni<sub>1-x</sub> O      ( CP )  
 $\text{Li}^+$        $\text{Ni}^+$       29.5%      71.2% .       $\text{Li}_{0.29}\text{Ni}_{0.71}\text{O}$  .  
 ,      80%      +      ±  
 10%      +      10%      (PVDF) N      .  
 1 ml/L  $\text{LiPF}_6$  EC/DMC      . Land  
 VSP      (Bio-Lo<sup>®</sup>)      !      !



	$s/$	$r/$	$a/$	$u/ (cm^2 \cdot s^{-1})$
3	3.463	108.8	73.42	$3.83 \times 10^{-12}$
	3.594	96.9	98.21	7.31





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