

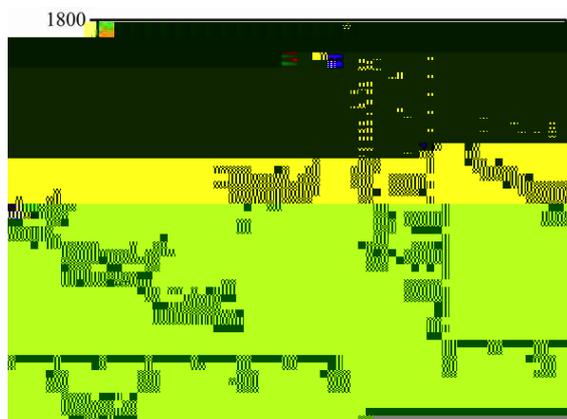


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Fe₃O₄@N C

Fe₂O₃

Fe₂O₃



1.

1	0.1 g	-Fe ₂ O ₃	30 mL	0.2	0.6 mol L ⁻¹	5
min				160	12 h	
				3	60	2 h
		-Fe ₂ O ₃				
2	0.3 g			-Fe ₂ O ₃	150 mL	10 mM Tris
	10 min	0.15 g			6 h	
	3	60	2 h			
	500	600	2 4 h			
	Fe ₃ O ₄	@N-C				
2.		1				
		1			0.4 mol L ⁻¹	

$\text{Fe}_3\text{O}_4\text{-}0.6\text{@N-C}$ 500 4 h $\text{Fe}_3\text{O}_4\text{@N-C}$ $\text{Fe}_3\text{O}_4\text{-}0.2\text{@N-C}$ $\text{Fe}_3\text{O}_4\text{-}0.4\text{@N-C}$
 PVDF 7: 2: 1
 60 μm 14 mm 2025

- Fe_2O_3

$\text{Fe}_3\text{O}_4\text{@N-C}$

1 SEM 1 PDF#
 33-0664 - Fe_2O_3 Hemite syn - Fe_2O_3

2 SEM 2 - Fe_2O_3

N_2 2 d-o

- Fe_2O_3 2 m

o - Fe_2O_3

3 XRD 3 - Fe_2O_3

Fe_3O_4 PDF#19-0629

- $\text{Fe}_2\text{O}_3\text{-}0.2\text{@PDA}$ - $\text{Fe}_2\text{O}_3\text{-}0.4\text{@PDA}$ - $\text{Fe}_2\text{O}_3\text{-}0.6\text{@PDA}$

$\text{Fe}_3\text{O}_4\text{-}0.2\text{@N-C}$ $\text{Fe}_3\text{O}_4\text{-}0.4\text{@N-C}$ $\text{Fe}_3\text{O}_4\text{-}0.6\text{@N-C}$

4 TEM Mapping 4 a -

Fe_2O_3

- Fe_2O_3

4 c

$\text{Fe}_3\text{O}_4\text{-}0.4\text{@N-C}$ $\text{Fe}_3\text{O}_4\text{-}0.6\text{@N-C}$

