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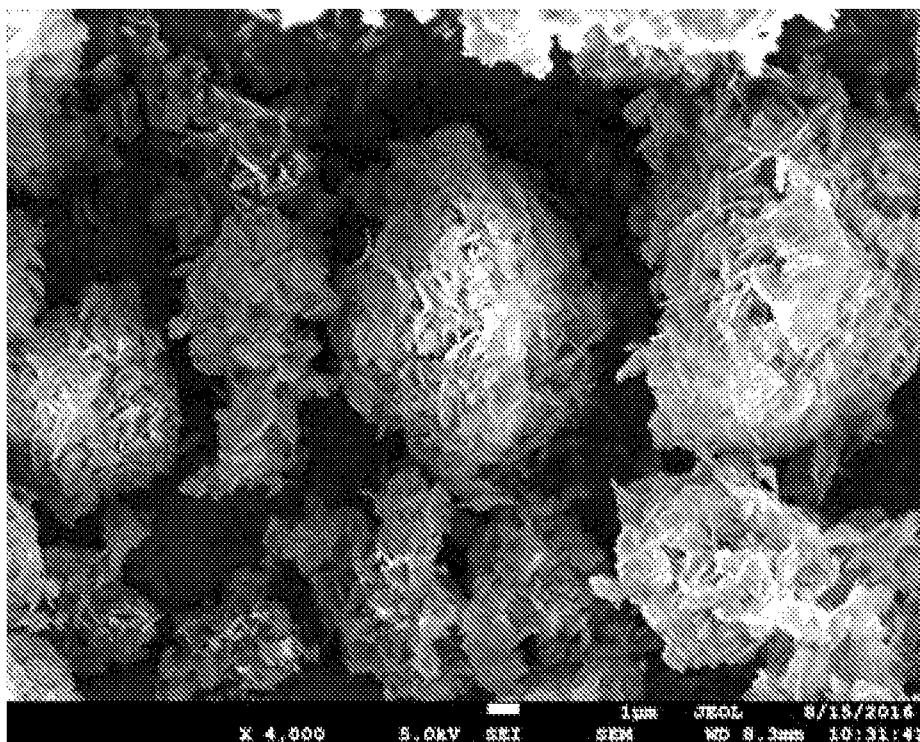
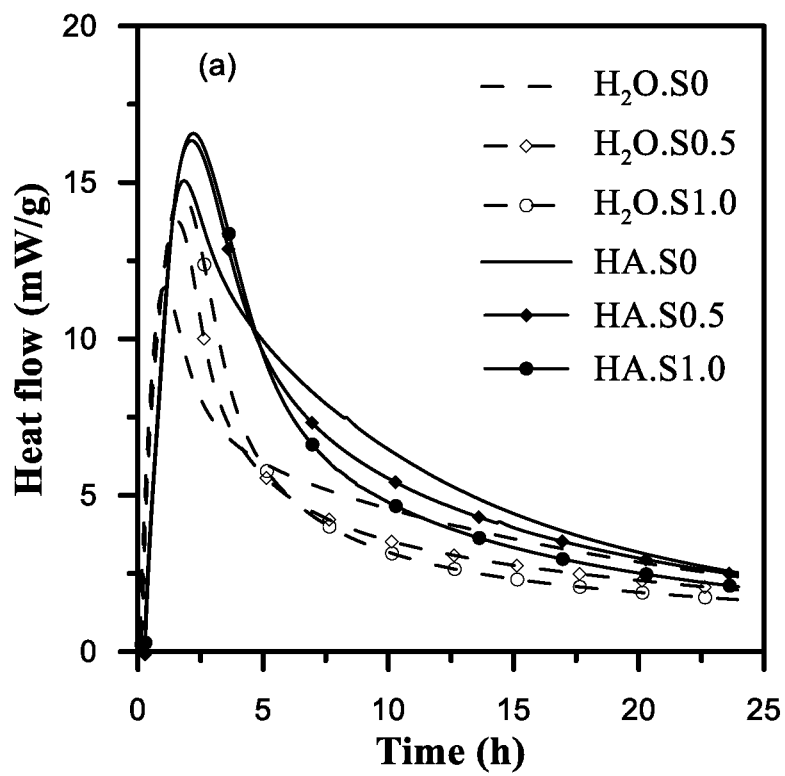
FIG. 1**FIG. 2a**

FIG. 2b

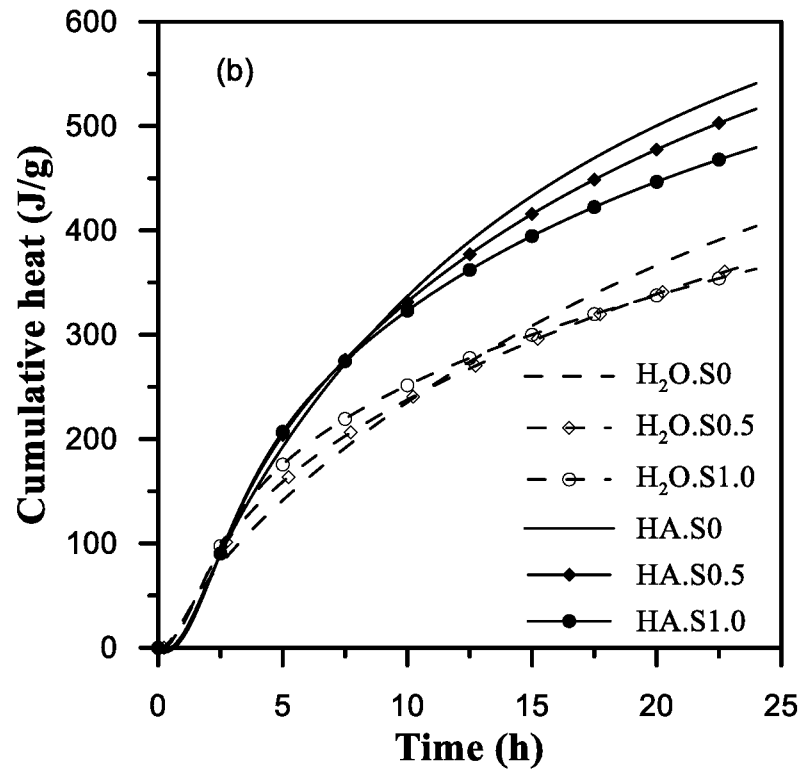
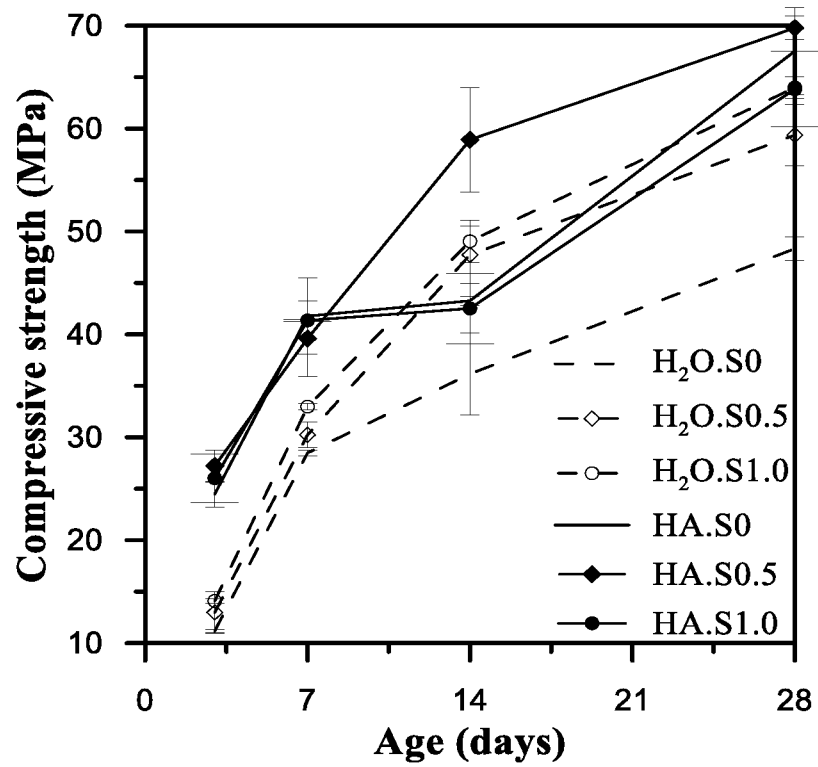
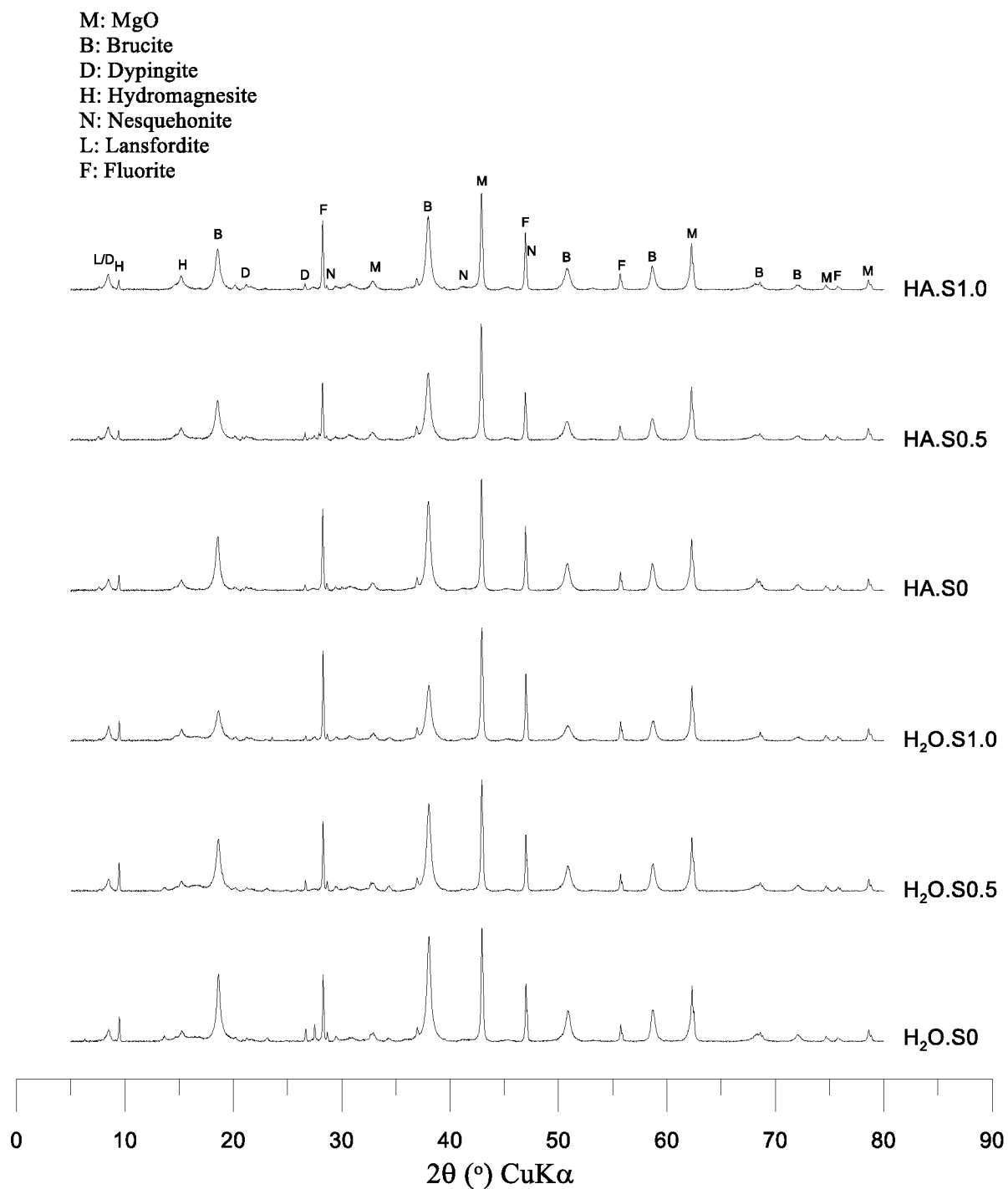


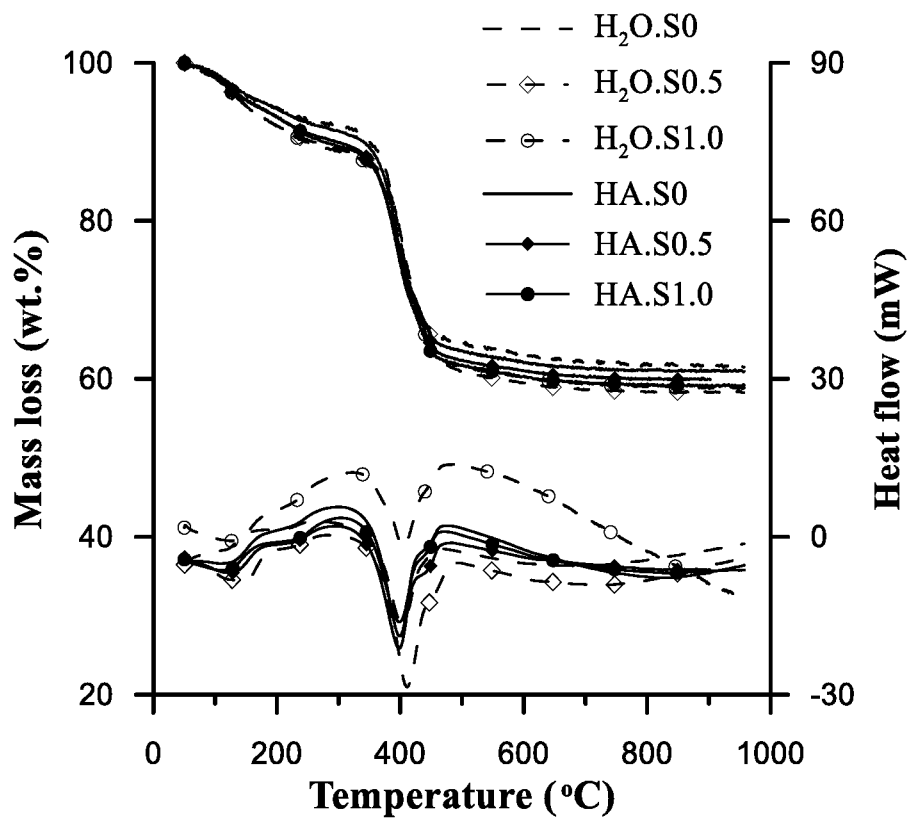
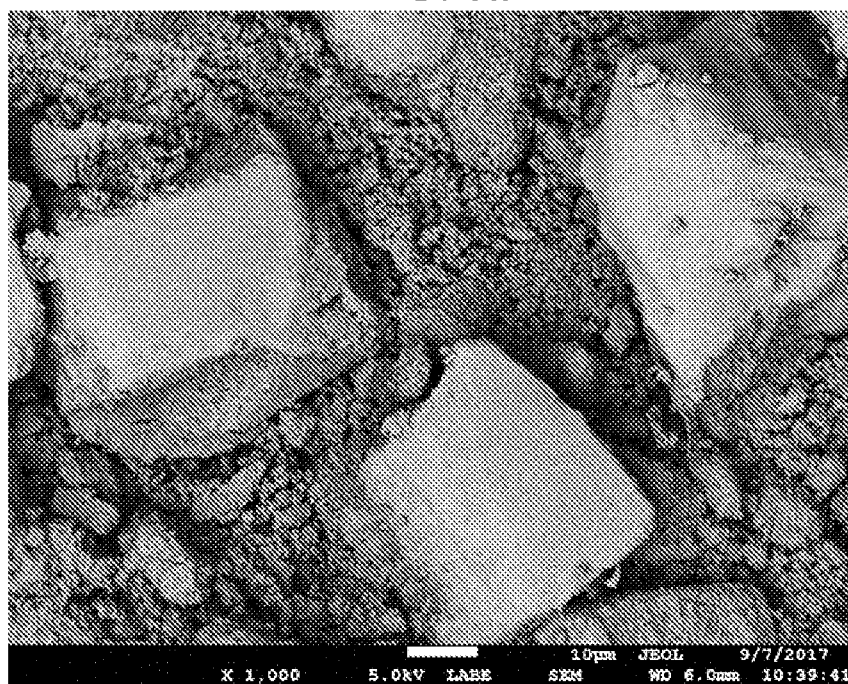
FIG. 3



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FIG. 4

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FIG. 5**FIG. 6a**

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FIG. 6b

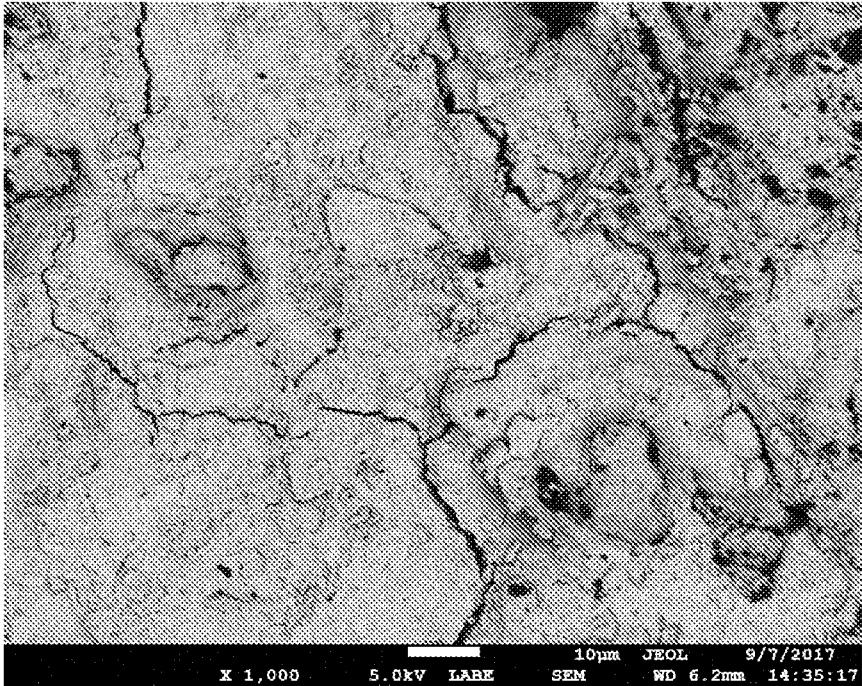
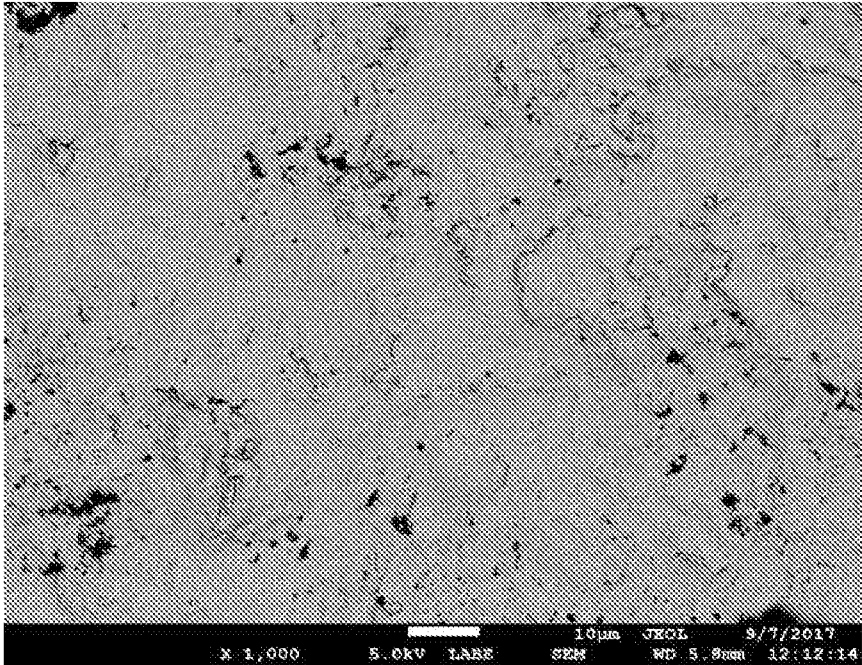


FIG. 6c



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FIG. 6d

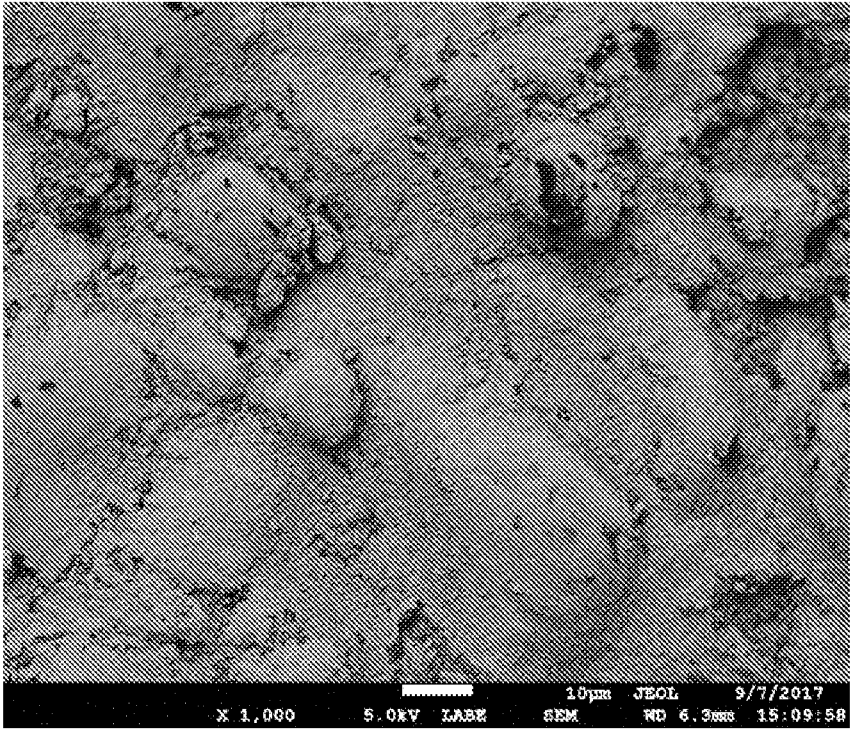
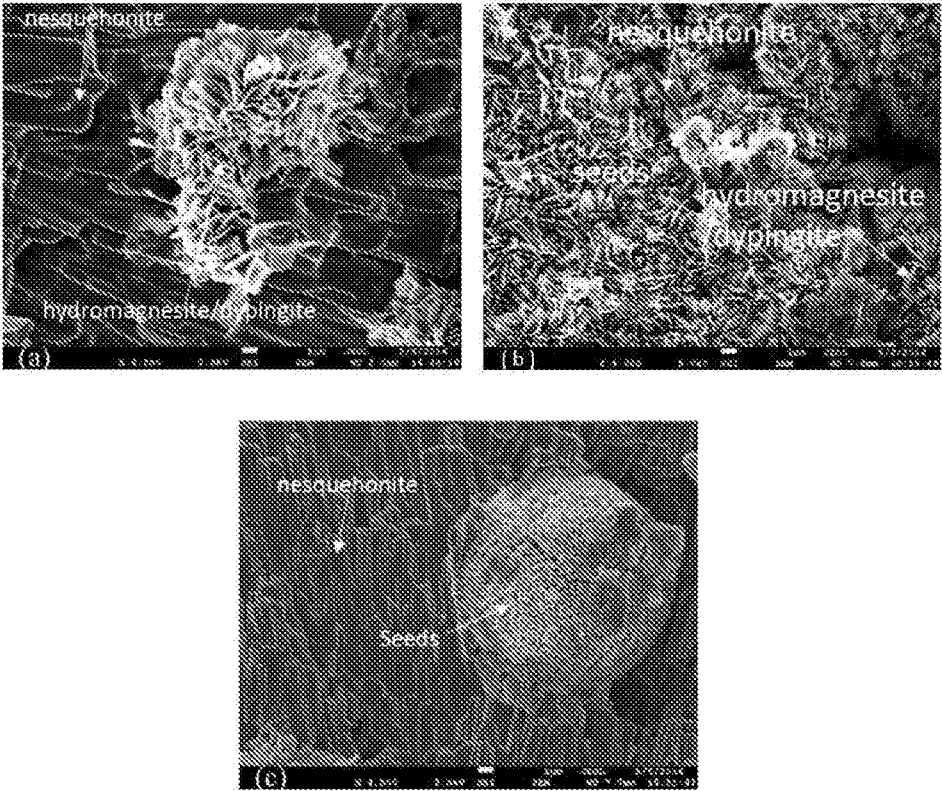


FIG. 7



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FIG. 8

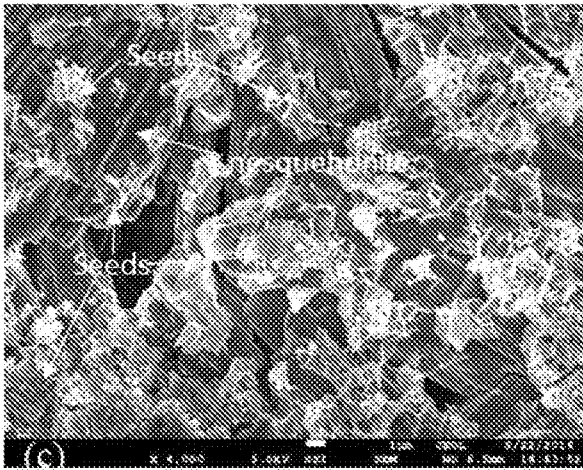
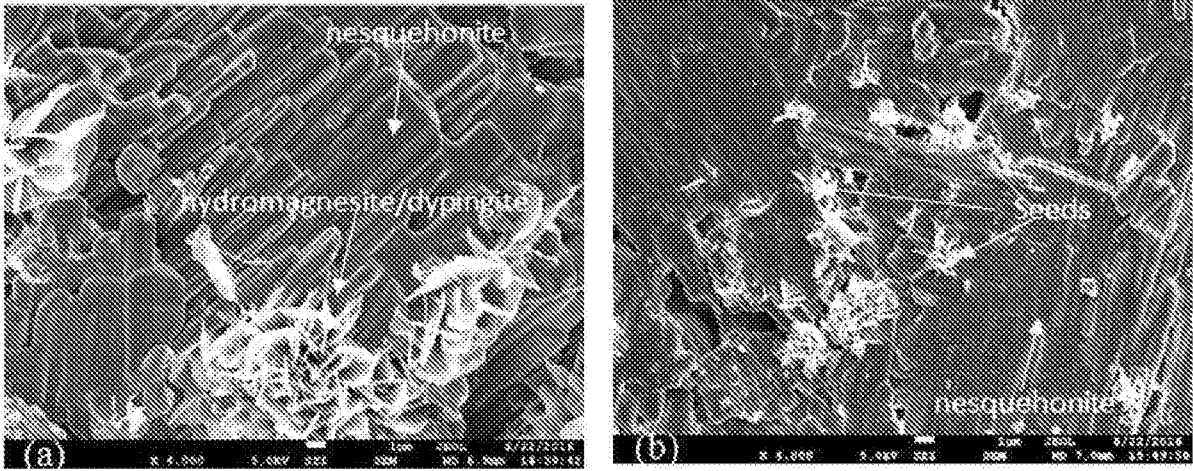
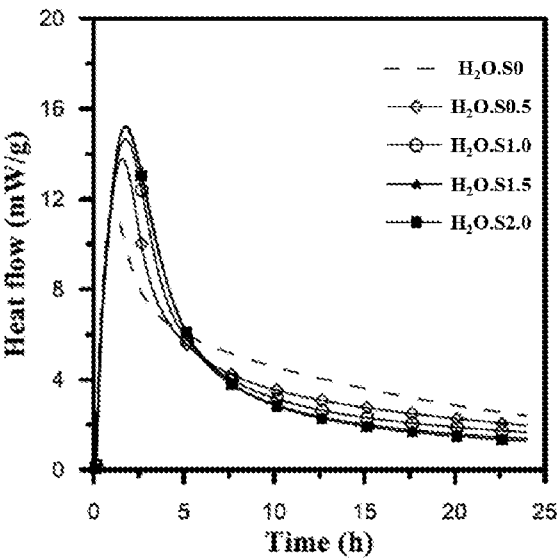
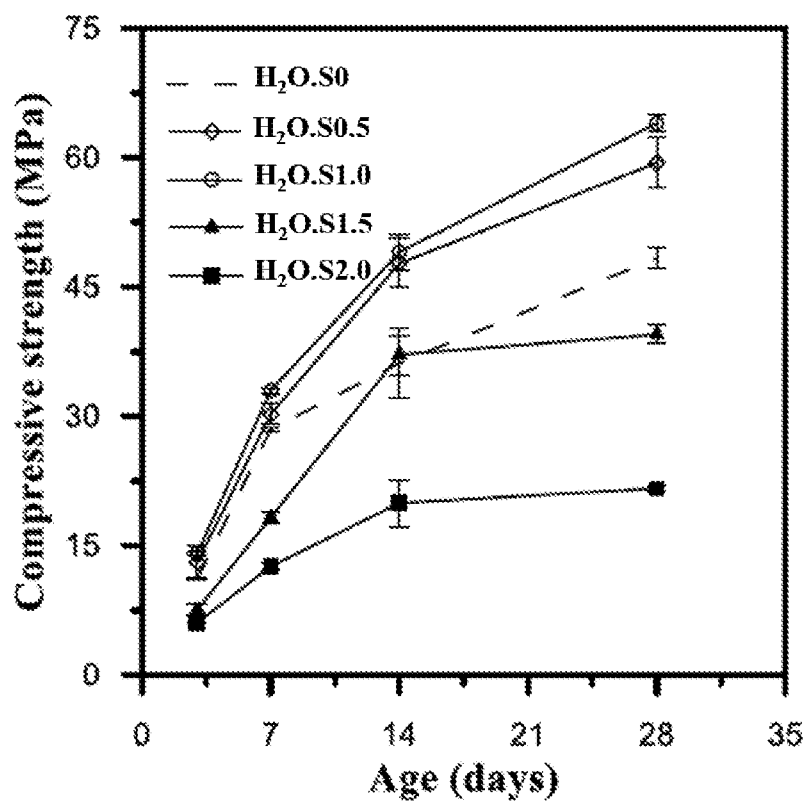


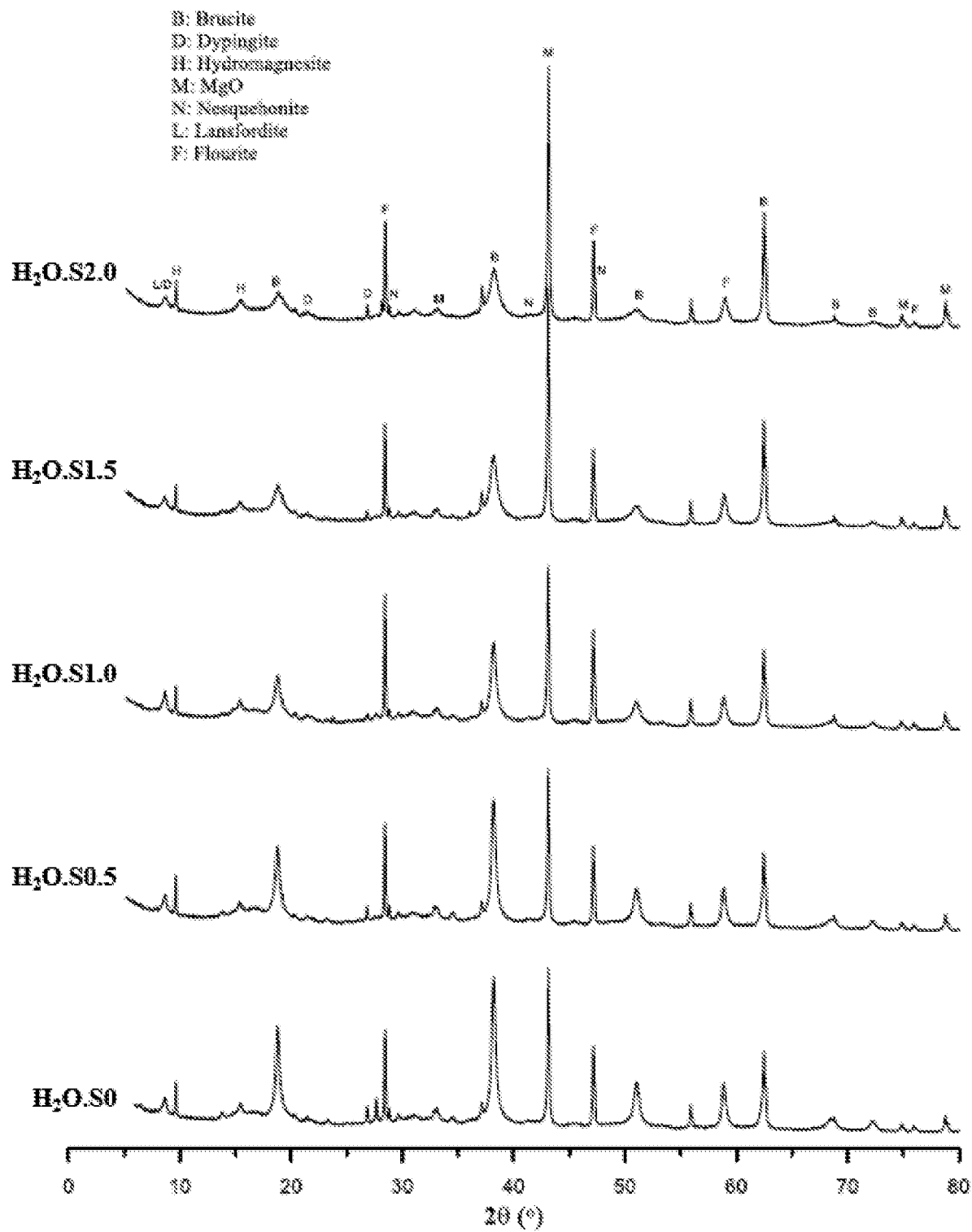
FIG. 9



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FIG. 10

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FIG. 11

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FIG. 12a

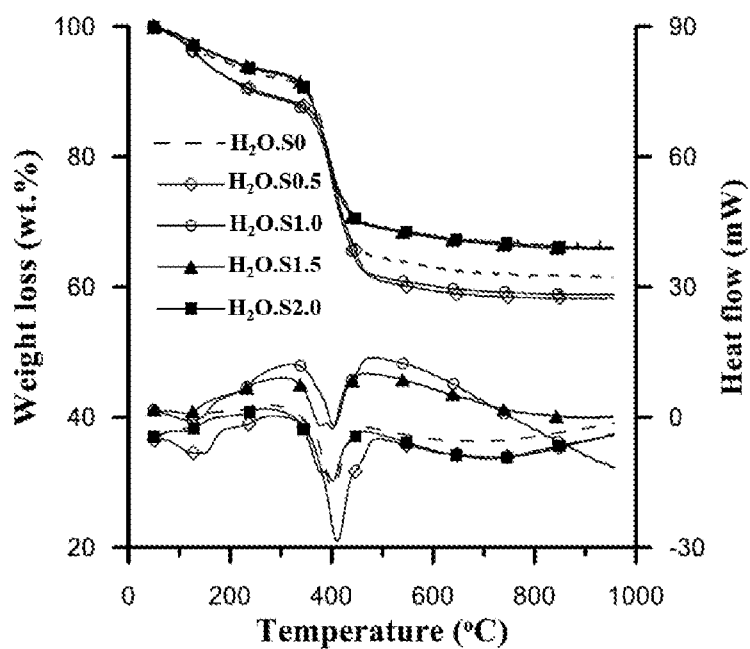
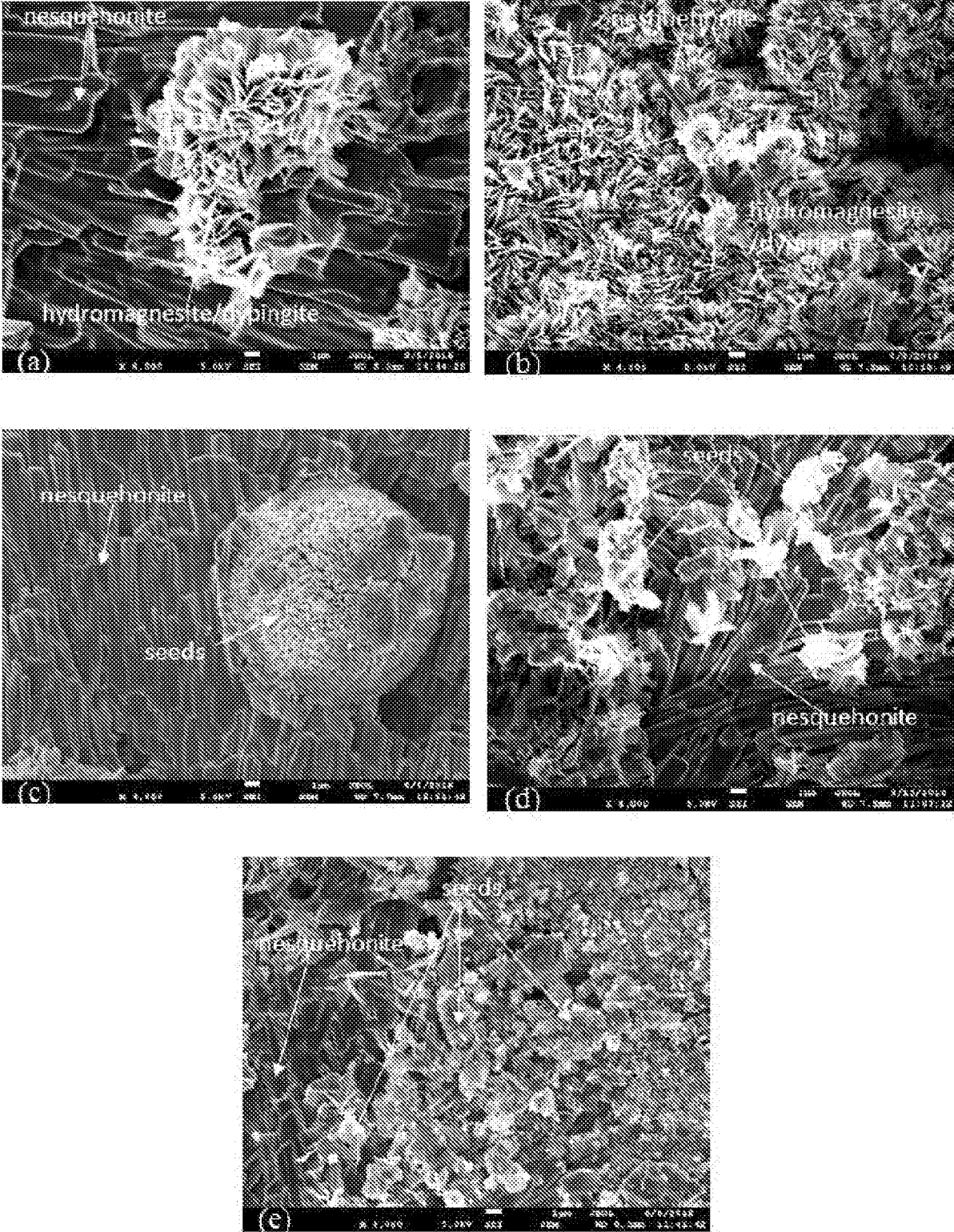


FIG. 12b

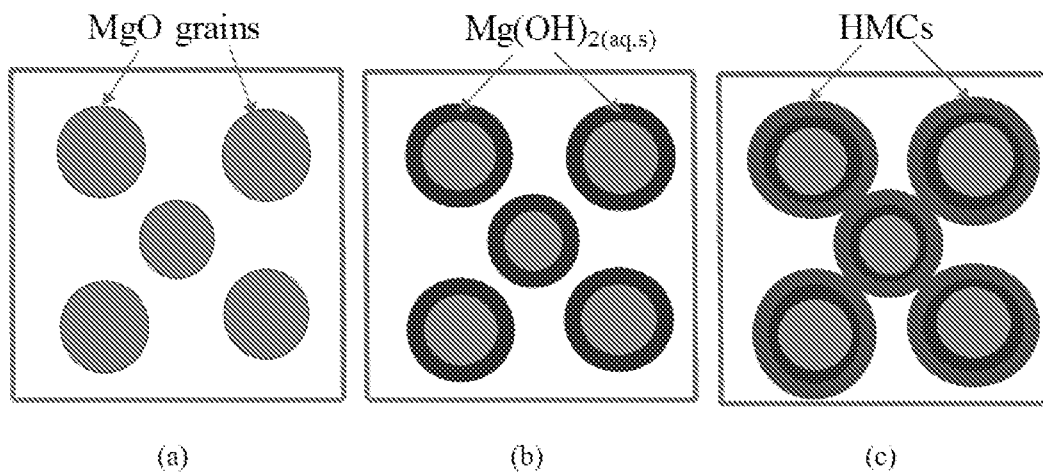
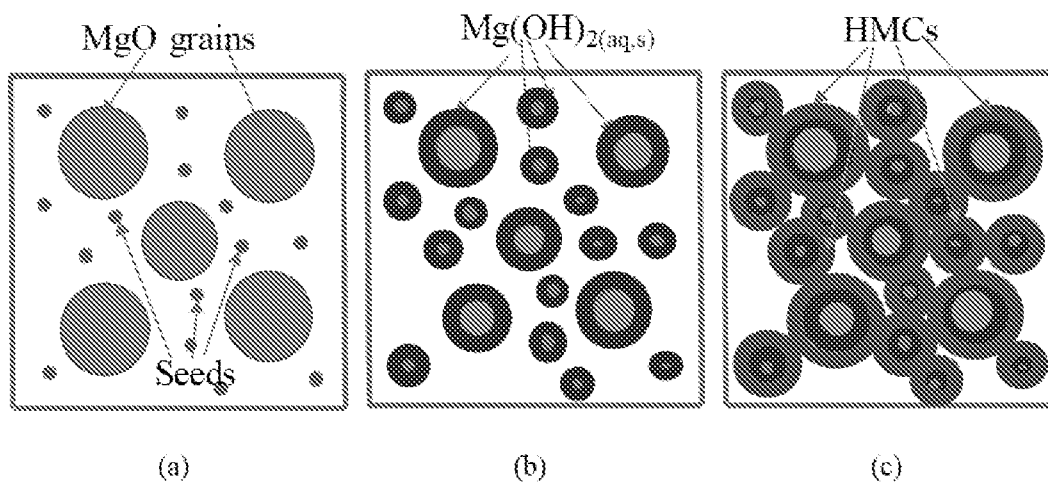
Phases	Decomposition reactions		
	50 – 300 °C	300 – 500 °C	500 – 900 °C
Brucite		$\text{Mg}(\text{OH})_2 \rightarrow \text{MgO}$	
$\text{Mg}(\text{OH})_2$	-	+ H_2O	-
Nesquehonite	$\text{MgCO}_3 \cdot 3\text{H}_2\text{O} \rightarrow \text{MgCO}_3$	$\text{MgCO}_3 \rightarrow \text{MgO} + \text{CO}_2$	$\text{MgCO}_3 \rightarrow \text{MgO} + \text{CO}_2$
$\text{MgCO}_3 \cdot 3\text{H}_2\text{O}$	+ $3\text{H}_2\text{O}$		
Hydromagnesite	$4\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \cdot 4\text{H}_2\text{O} \rightarrow 4\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 + 4\text{H}_2\text{O}$	$4\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \rightarrow 4\text{MgCO}_3 + \text{MgO} + \text{H}_2\text{O}$	$\text{MgCO}_3 \rightarrow \text{MgO} + \text{CO}_2$
Dypingite	$4\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \cdot 5\text{H}_2\text{O} \rightarrow 4\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 + 5\text{H}_2\text{O}$	$4\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \rightarrow 4\text{MgCO}_3 + \text{MgO} + \text{H}_2\text{O}$	$\text{MgCO}_3 \rightarrow \text{MgO} + \text{CO}_2$

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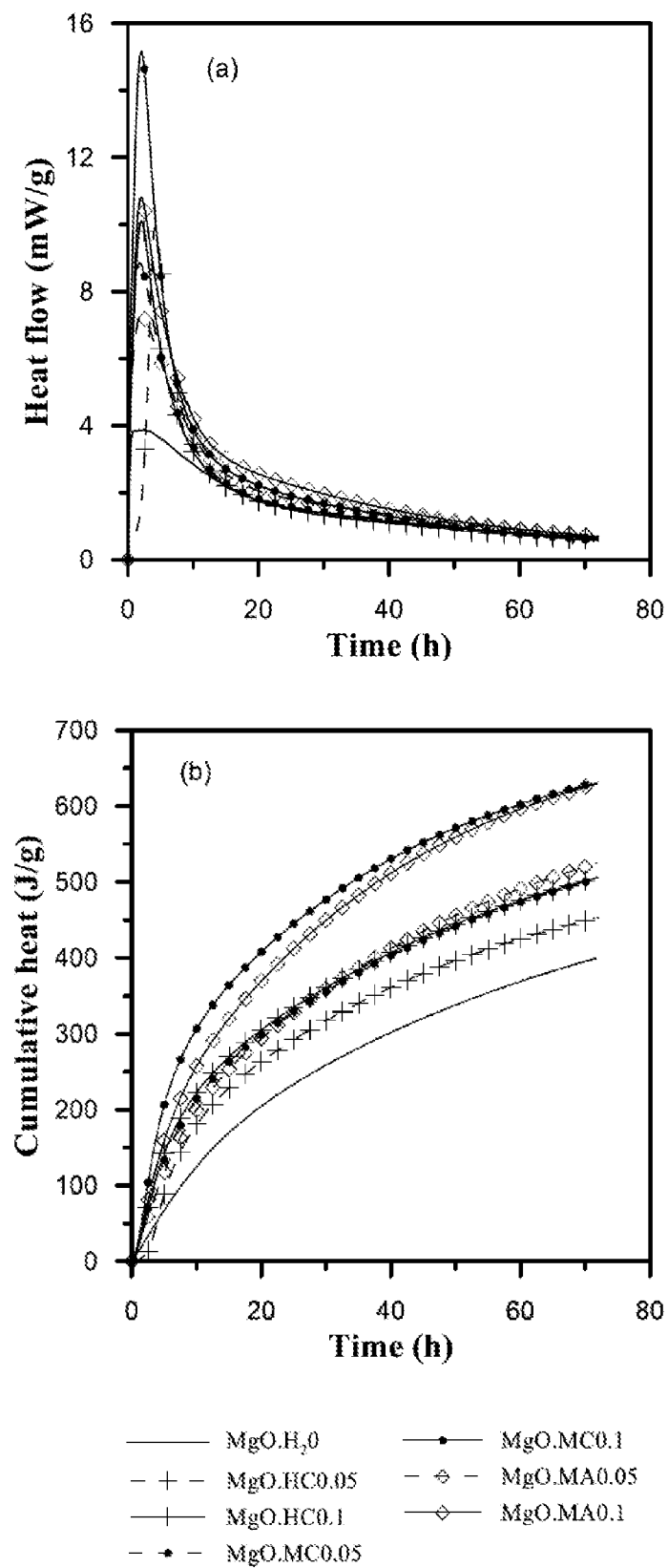
FIG. 13



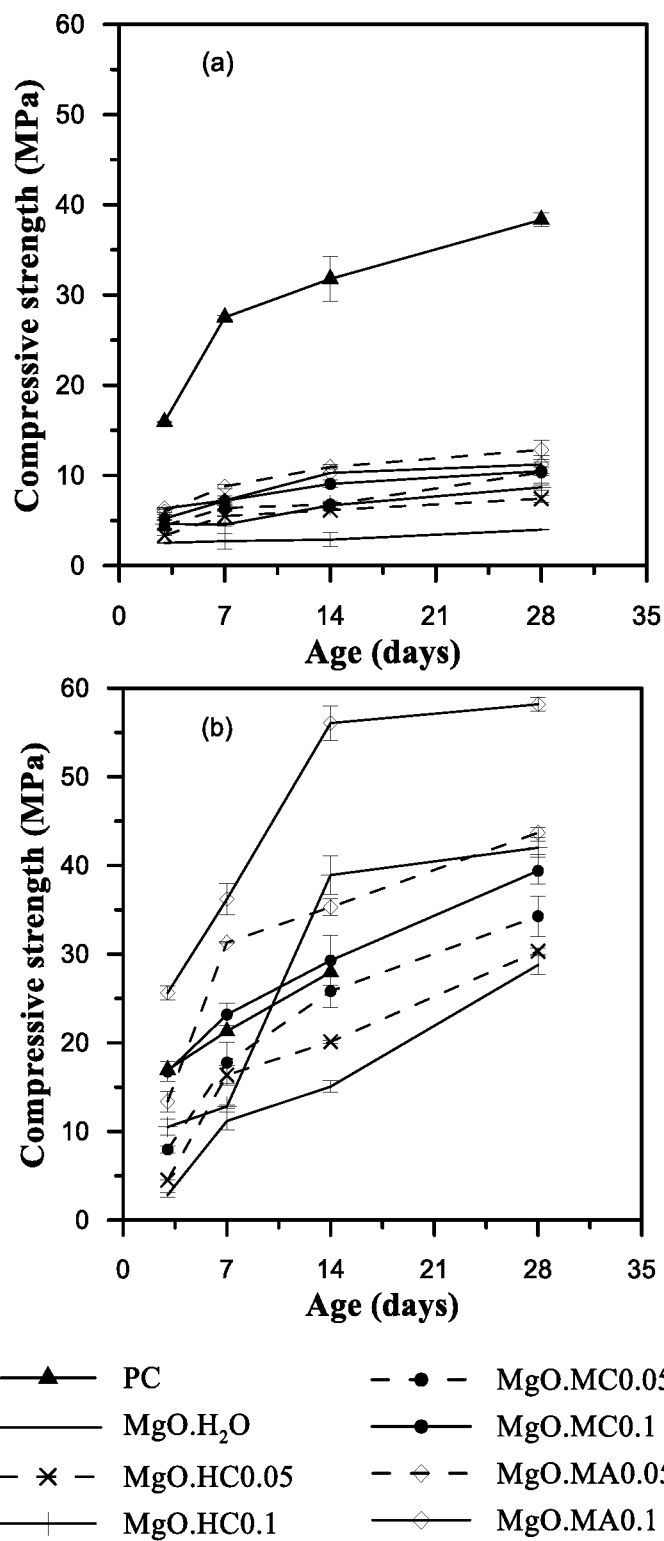
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FIG. 14**FIG. 15**

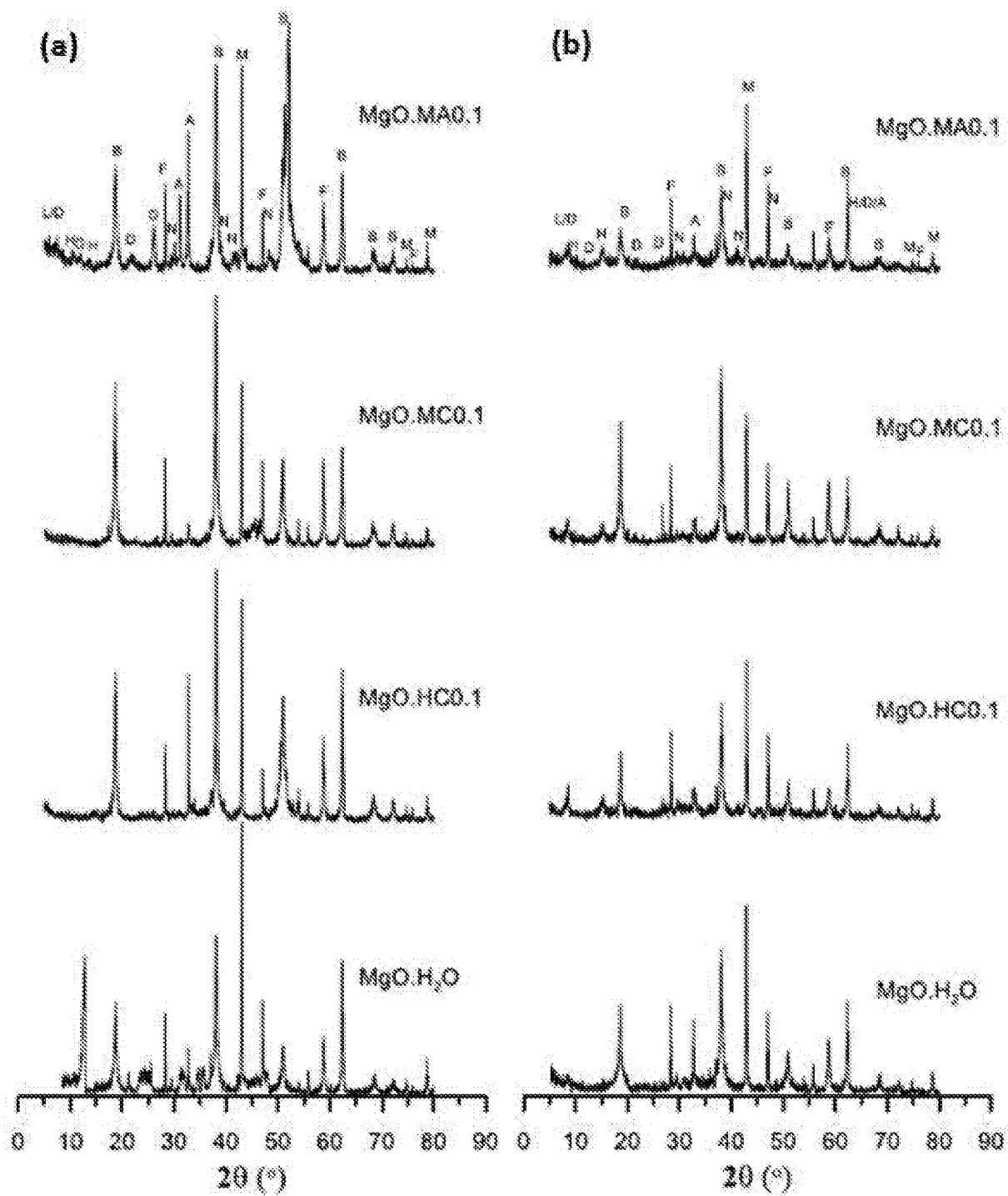
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FIG. 16

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FIG. 17

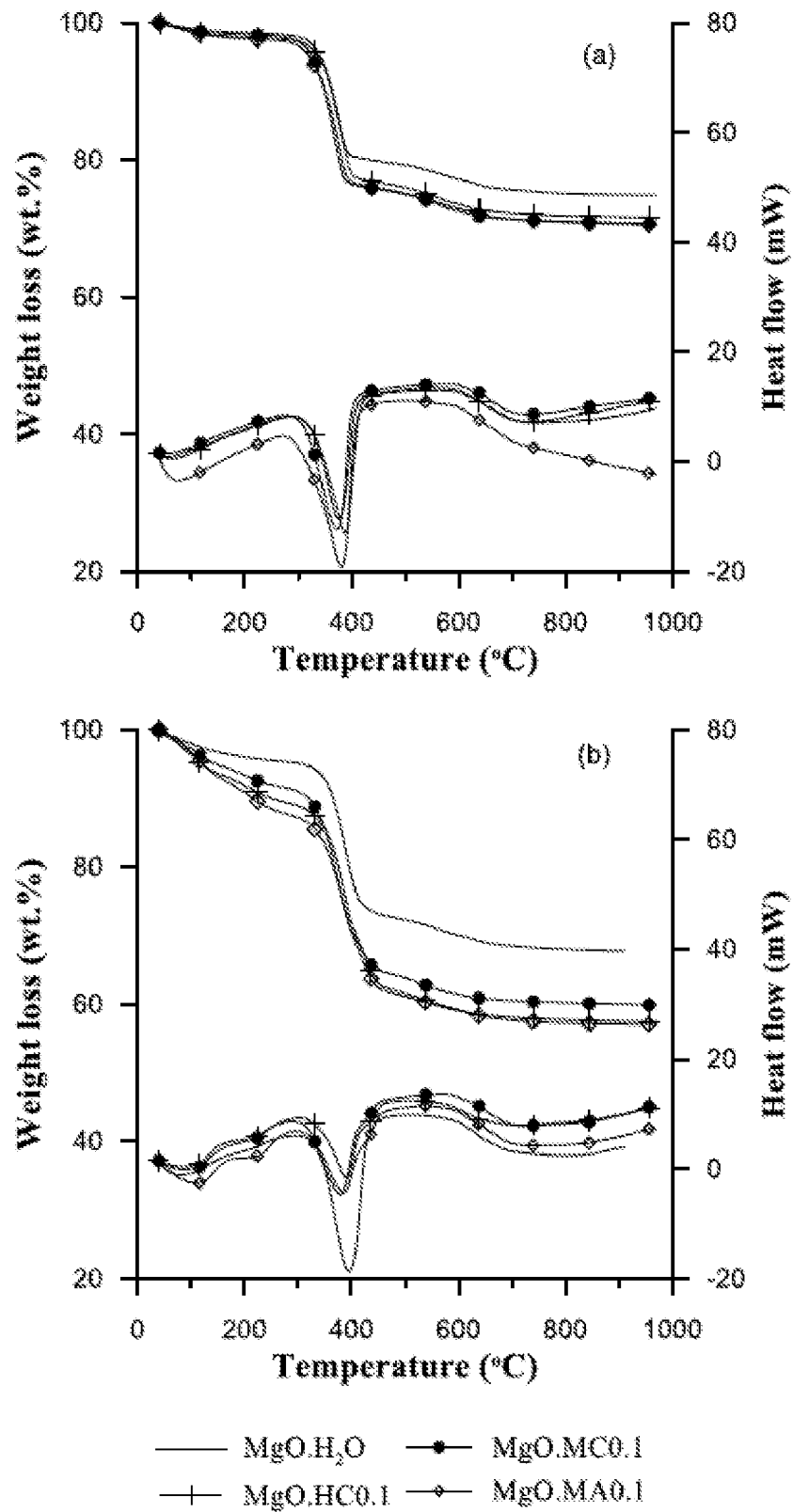
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FIG. 18

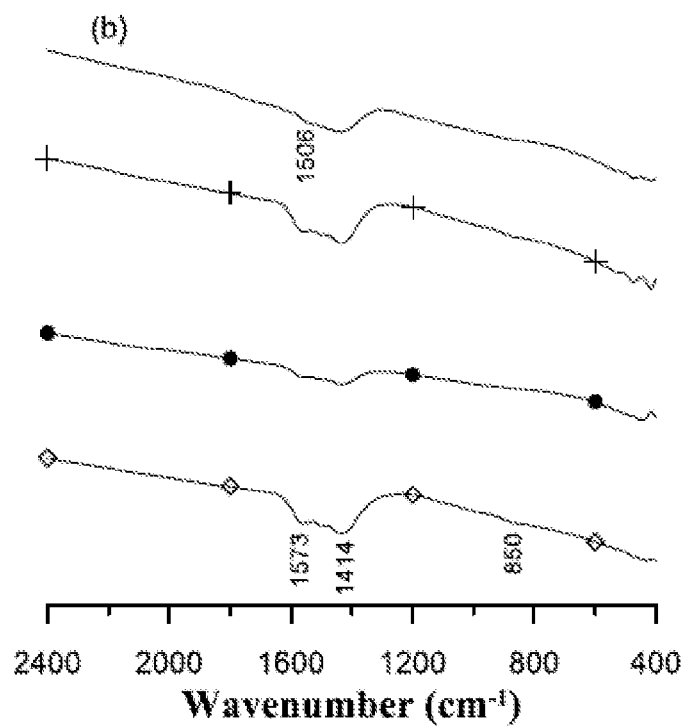
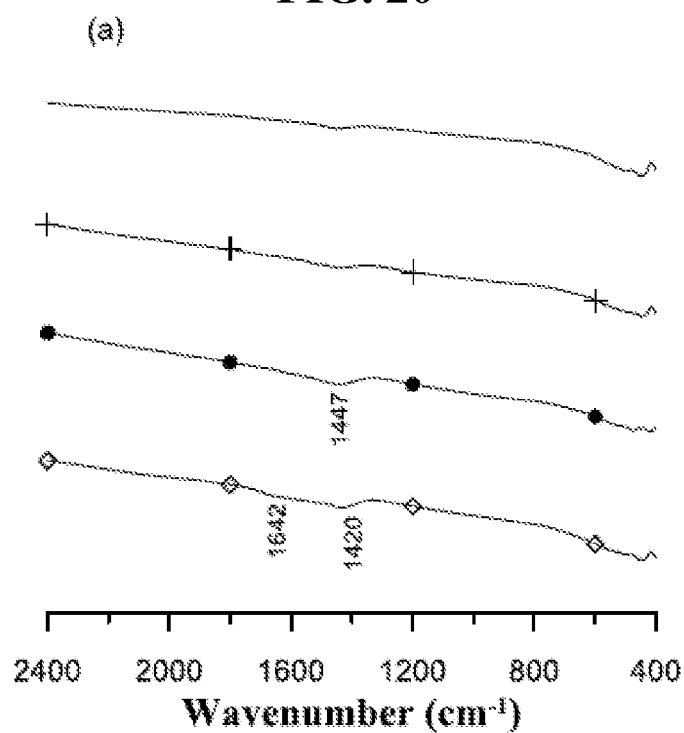
B: Brucite D: Dypingite
 M: MgO H: Hydromagnesite
 F: Flourite N: Nesquehonite
 A: Artinite L: Lansfordite

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FIG. 19



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FIG. 20

— $\text{MgO.H}_2\text{O}$ —●— MgO.MC0.1
—+— MgO.HC0.1 —◇— MgO.MA0.1

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FIG. 21

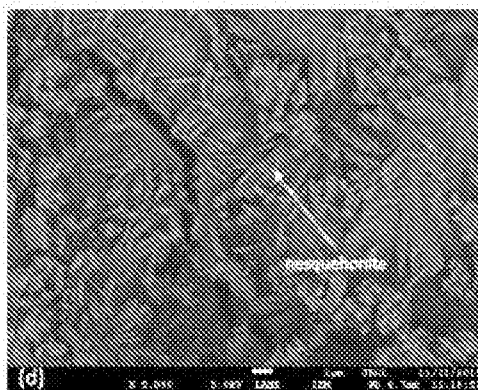
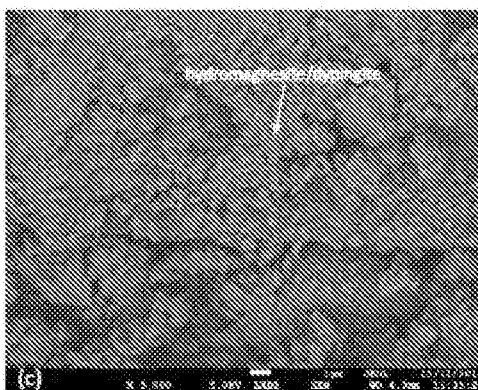
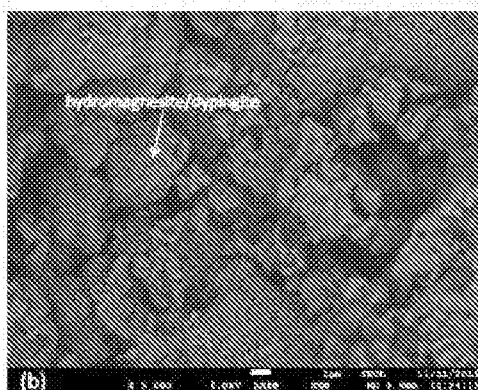
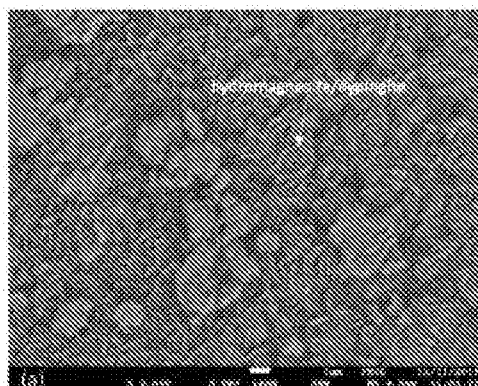
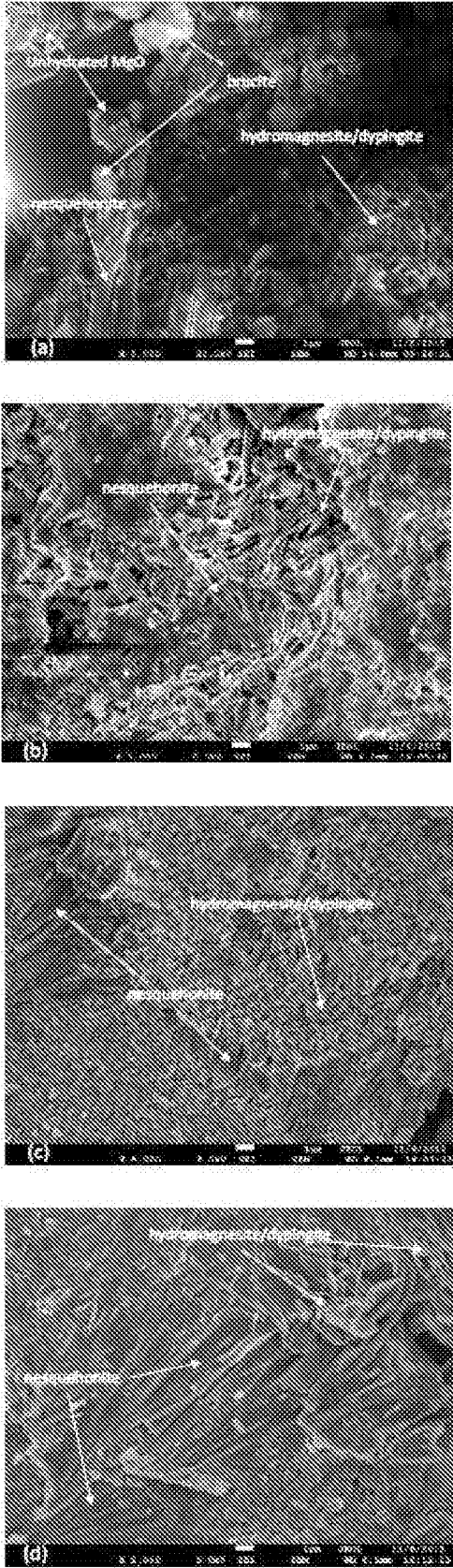
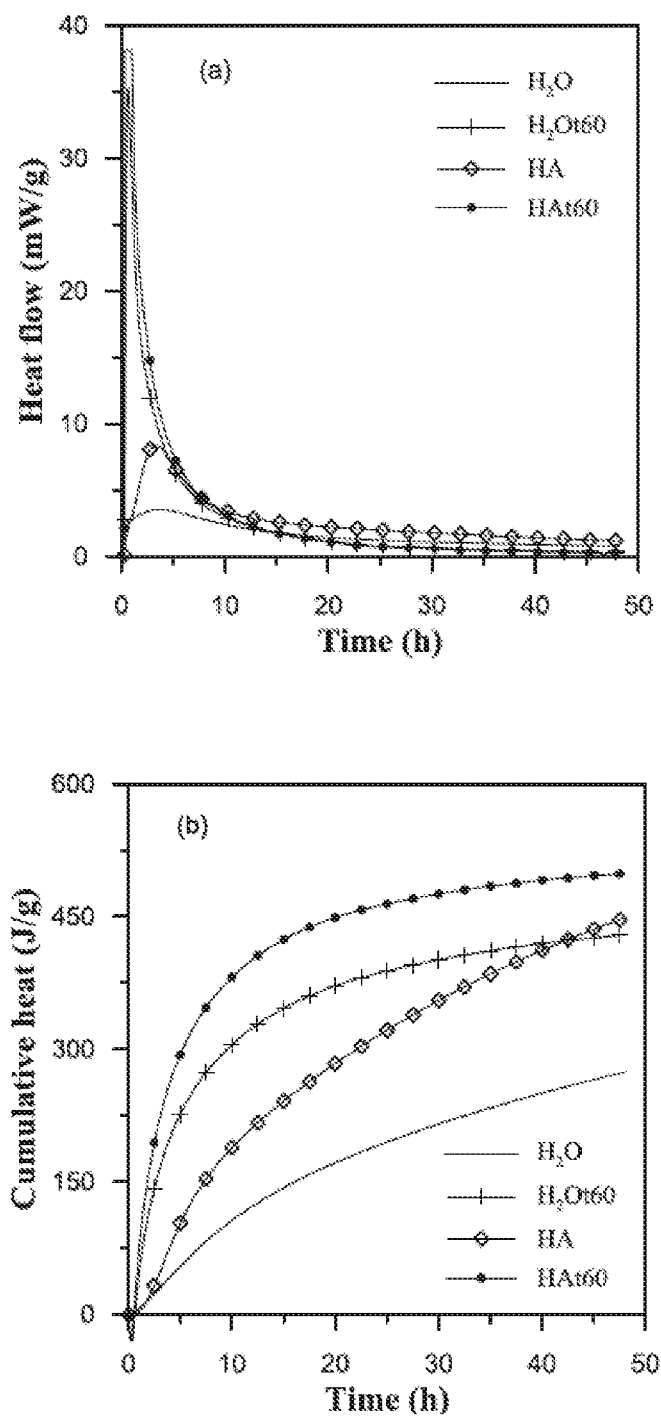


FIG. 22



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FIG. 23

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FIG. 24

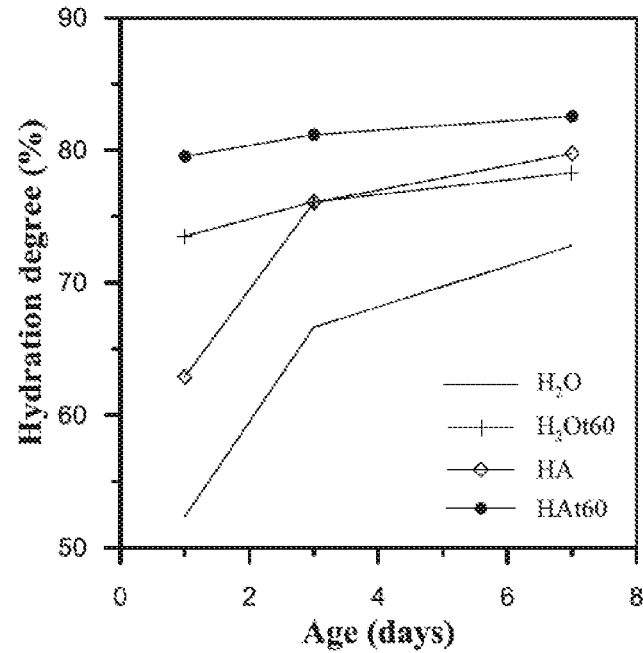
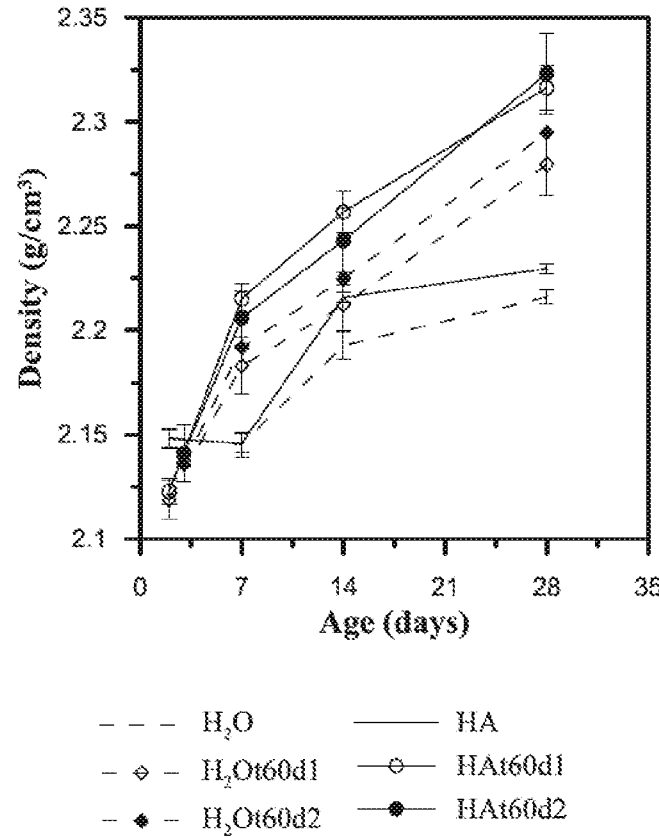
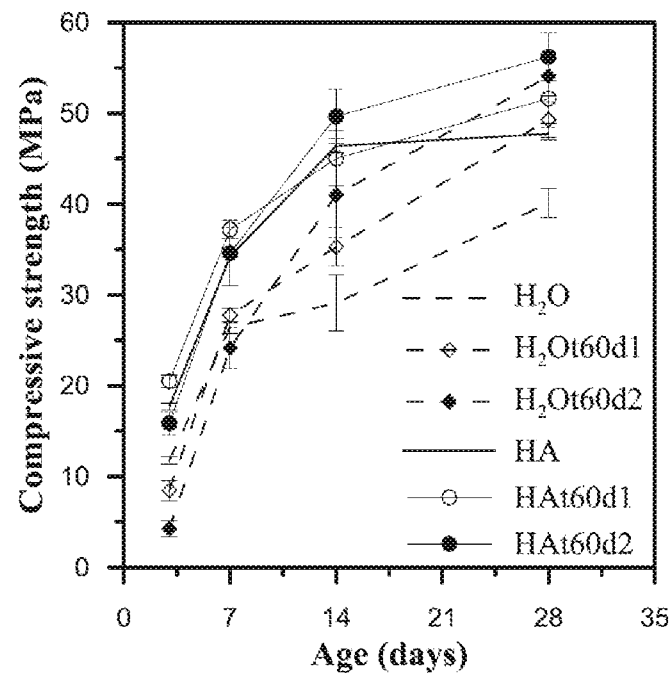


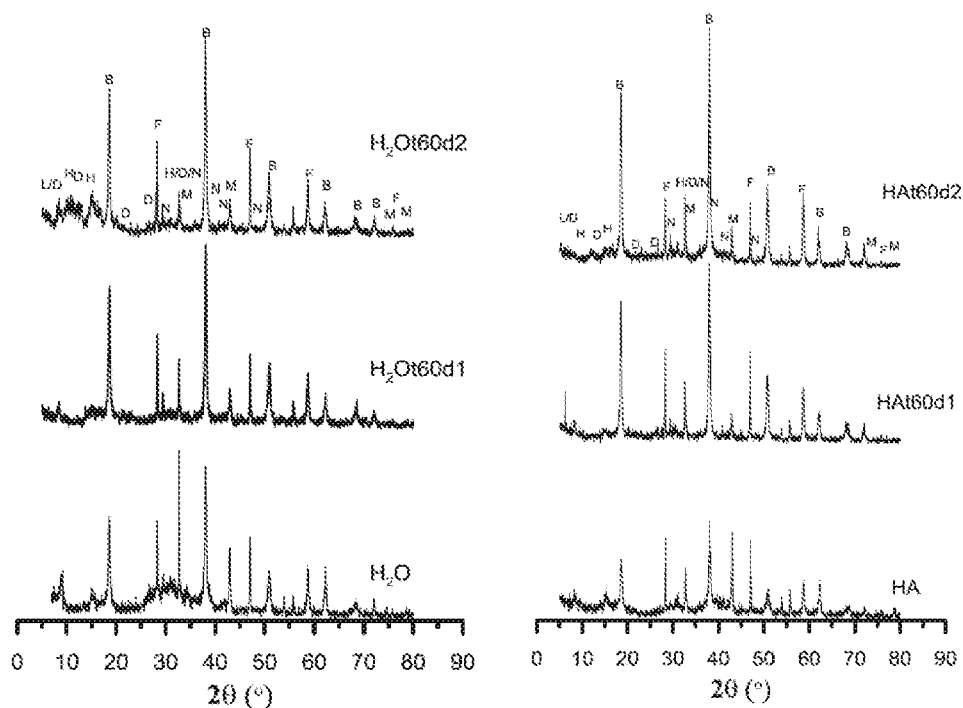
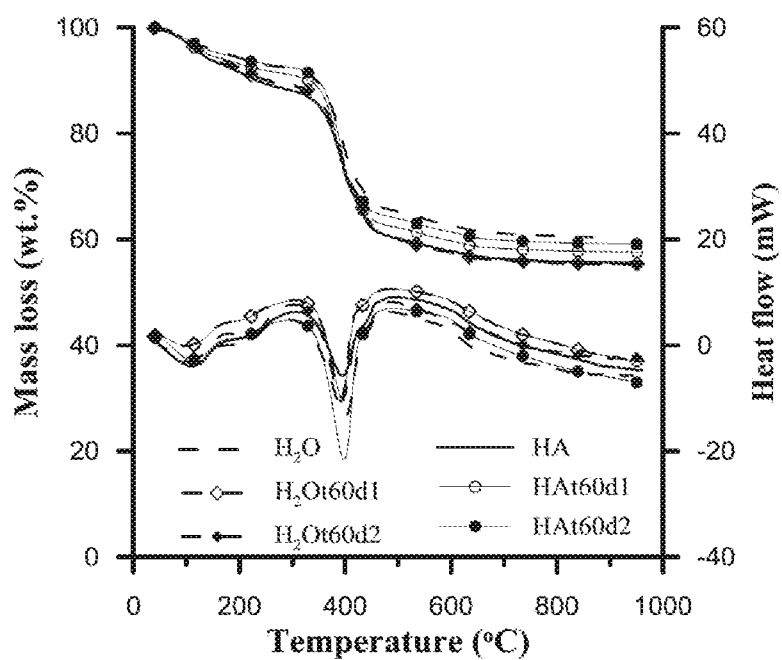
FIG. 25



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FIG. 26

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FIG. 27**FIG. 28**

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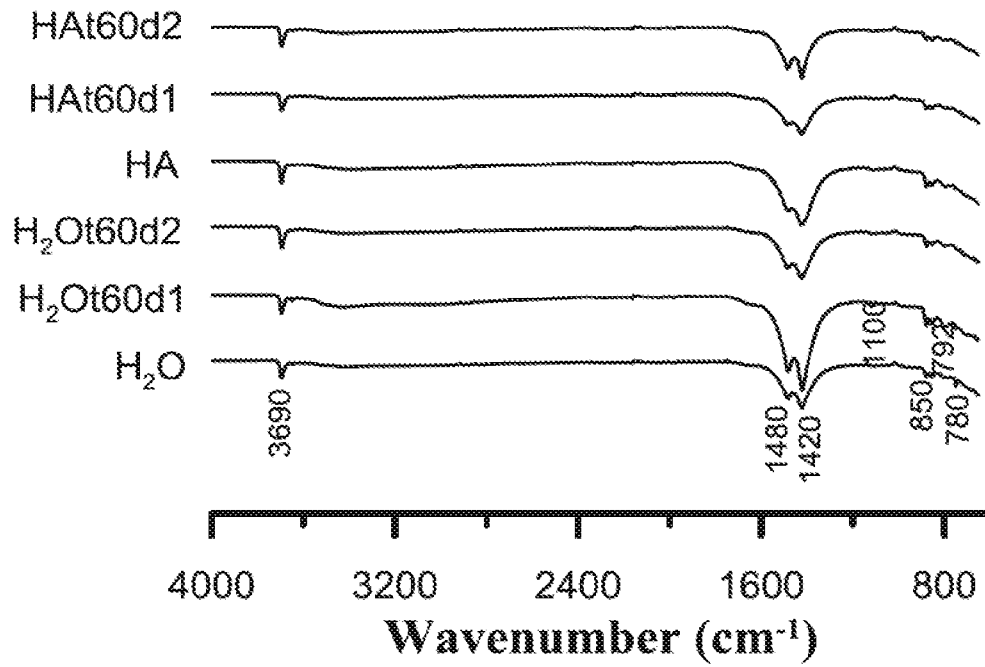
FIG. 29

FIG. 30

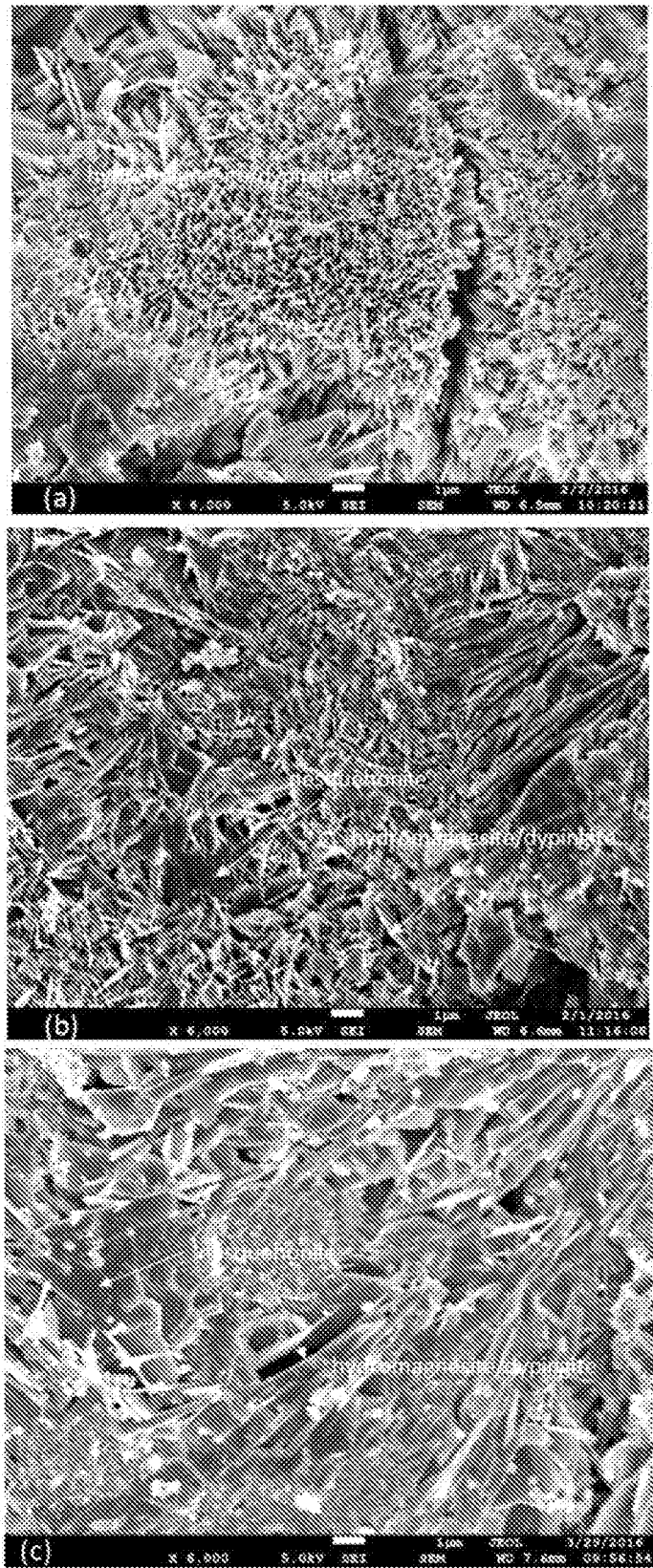


FIG. 31

