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metal oxide, a synthetic polymer, zeolite, silica compound or an alumina compound; and

(ii) obtaining carbon dioxide.

14. The method of claim 13, wherein said nitrogen-containing chelating agent is heme.

15. the method of claim 13, wherein said nitrogen-containing chelating agent is hemin.

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16. The method of claim 13, wherein said support is glass, a natural fiber, a synthetic fiber on a gel.

17. The method of claim 13, wherein said support is charcoal, carbon, a ceramic material, a metal, a metal oxide or a synthetic polymer.

18. The method of claim 13, wherein said support is a zeolite, a silica compound or an alumina compound.

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