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Fabrication of mesoporous magnesium oxide nanosheets using magnesium powder and their excellent adsorption of Ni (II)

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Highlights

- 1) Mesoporous MgO nanosheets were synthesized using Mg powder by a hydrothermal method.
- 2) The Mg powder slowly generates Mg^{2+} resulting in a slow nucleation and growth rate of $Mg(OH)_2$.
- 3) The adsorption performance of MgO is 2217mg/g.

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