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2003 9 2007 7

2007 9 2008 7

2012 4 2013 3

2007 9 2014 4

2014 6

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MOFs

Angew. Chem. Int. Ed., J. Am. Chem. Soc., Chem. Eur. J.

18

500

MOFs



Sn

Sn
Lewis

Sn-MFI

¹¹⁹Sn

60 %

Sn

Sn-Beta

state of the art

5

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top-down

Sn-MWW

ChemSusChem 2013, 6, 1352-1356; *ChemCatChem*

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MOFs

MIL-101

MIL-101

Lewis

Sn

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Cu/SSZ-13

Cu/SSZ-13

NH₃-SCR

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➤ PSA

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✓ 2013

✓ 2013

✓ 2012-2013

✓ 2011-2012