Quo vadis, MOF?
Jürgen Caro

Metal-Organic Frameworks (MOFs) show “world records” in BET surface and specific pore volume. Kapteijn et al. discussed the potential of MOFs as

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5 fields of present MOF science and technology will be highlighted:

1. Critical evaluation of MOF properties: Are BET surfaces > 10,000 m²/g real? Are the pore volumes reported in literature reliable? Can we call MOFs molecular sieves? [1].
3. Switching of gas transport through MOF membranes: Nice game on the lab scale or promising development? Selectivity and permeability of gas permeation can be switched by light [3] or electric fields [4].
4. MOF application: MOFs are predicted to substitute zeolites and other molecular sieves in big adsorption, permeation and heterogeneous catalysis applications. I will predicted, that commercialization of MOFs will takes place first in small niche applications, and if successful – the big processes will follow.


