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Frequency-domain terahertz transmission spectra of Mn<sub>3</sub> and Mn<sub>12</sub> single-molecule magnets[J].Science China(Physics, Mechanics & Astronomy),2012,07:1245-1248.

关键词:terahertz, single-molecule magnets, transmission

摘要:Frequency-domain terahertz transmission spectra of Mn<sub>3</sub> and Mn<sub>12</sub> single molecule magnets (SMMs) have been measured at different temperatures, and hence the anisotropic parameters D<sub>2</sub> and D<sub>4</sub> of the spin Hamiltonian  $H = D_2 S_z^2 + D_4 S_z^4$  have been calculated. For Mn<sub>12</sub> SMM, D<sub>2</sub> = 10.9 GHz and D<sub>4</sub> = 2.59 × 10<sup>-2</sup> GHz,...