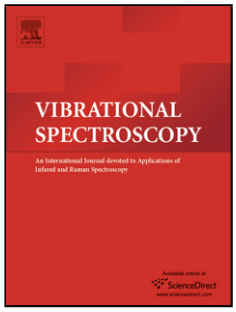

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PII: S0924-2031(17)30260-6
DOI: https://doi.org/10.1016/j.vibspec.2017.12.002
Reference: VIBSPE 2757

To appear in: *VIBSPE*

Received date: 19-9-2017
Revised date: 28-11-2017
Accepted date: 3-12-2017

Please cite this article as: Joanna Hetmańczyk, Łukasz Hetmańczyk, Vibrational and reorientational dynamics and thermal properties in [Mg(H2O)4](ReO4)2 supported by Periodic DFT study, Vibrational Spectroscopy https://doi.org/10.1016/j.vibspec.2017.12.002

Vibrational and reorientational dynamics and thermal properties in $[Mg(H_2O)_4](ReO_4)_2$ supported by Periodic DFT study

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Graphical abstract