# Advances in GVVPT2 Multireference Perturbation Theory. Transition Metals and Lanthanides

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[1] P. K. Tamukong, D. Theis, Y. G. Khait, M. R. Hoffmann, *J. Phys. Chem. A* **116**, 4590 (2012).

[2] P. K. Tamukong, M. R. Hoffmann, Z. Li, W. Liu, *J. Phys. Chem. A* **118**, 1489 (2014).

[3] W. Liu, *Mol. Phys.* **108**, 1679 (2010).