

## Essay Titles

(size = c. 2500 words)

1. QM/MM and other hybrid methods
2. QM/MM and crystallographic refinement methods
3. Linear scaling MP2 and CC methods
4. Methods to avoid the SCF diagonalization step
5. Computational studies of supramolecular systems
6. Applications of Cholesky decomposition to ab initio methods
7. Applications of density fitting to ab initio and density-functional-theory methods
8. Applications of hybrid methods to heterogenous catalytic systems
9. Applications of density-functional-theory methods to transition metal systems
10. The fast multipole method
11. Local correlation methods
12. Ab initio and density-functional-theory approaches with periodic boundary conditions
13. Own title related to the topic of the WS2002