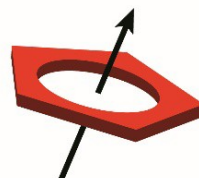


Courses for the HRSMC Class of Excellence

Version June 2020



**HOLLAND
RESEARCH
SCHOOL
OF MOLECULAR
CHEMISTRY**

Recommended *Basis* Master Courses

| Master Course (6 ECTS) | HRSMC member involved | Master Track | HRSMC Theme | | |
|--|--|--------------|-------------|---|---|
| | | | 1 | 2 | 3 |
| Physical Organic Chemistry | J. C. Slootweg F. M. Bickelhaupt | MOL.Sc | X | | |
| Homogeneous Catalysis | B. de Bruin J.N.H. Reek J.I. van der Vlugt | MOL.Sc | X | | |
| Organometallic Chemistry and Homogeneous Catalysis | E. Bouwman | EaS: | X | | |
| Synthetic Organic Chemistry | Dr. M.Á. Fernández-Ibáñez Dr. E. Ruijter J.H. van Maarseveen | MOL.Sc | X | | |
| Quantum Theory of Molecules and Matter | W.J. Buma H. Zhang P. Gori-Giorgi | MOL.Sc | * | X | X |
| Electrochemistry | M. Koper | EaS | * | X | X |
| Photochemistry | S. Bonnet F. Buda | EaS | * | X | X |
| Statistical Theory of Complex Molecular Systems | P.G. Bolhuis | MOL.Sc | | | X |
| Advanced Computational Chemistry | C. Fonseca Guerra F.M. Bickelhaupt | MOL.Sc | * | | X |
| Coordination and Organometallic Chemistry | B. de Bruin C.J. Elsevier | MOL.Sc | X | | |
| Computational Chemistry and Molecular Simulations | F. Buda | EaS | * | | X |
| DFT in practice | J. Meyer | EaS | * | * | X |
| Heterogeneous Catalysis | I.M.N. Groot | EaS | X | | |
| Heterogeneous Catalysis | S. Grecea N.R. Shiju | MOL.Sc | X | | |

MOL.Sc: Molecular Sciences (UvA/VU); AS: Analytical Sciences (UvA/VU); SfES: Science for Energy and Sustainability (UvA/VU); EaS: Energy and Sustainability (UL); * = Can be very helpful for research related to catalysis/synthesis within theme 1.