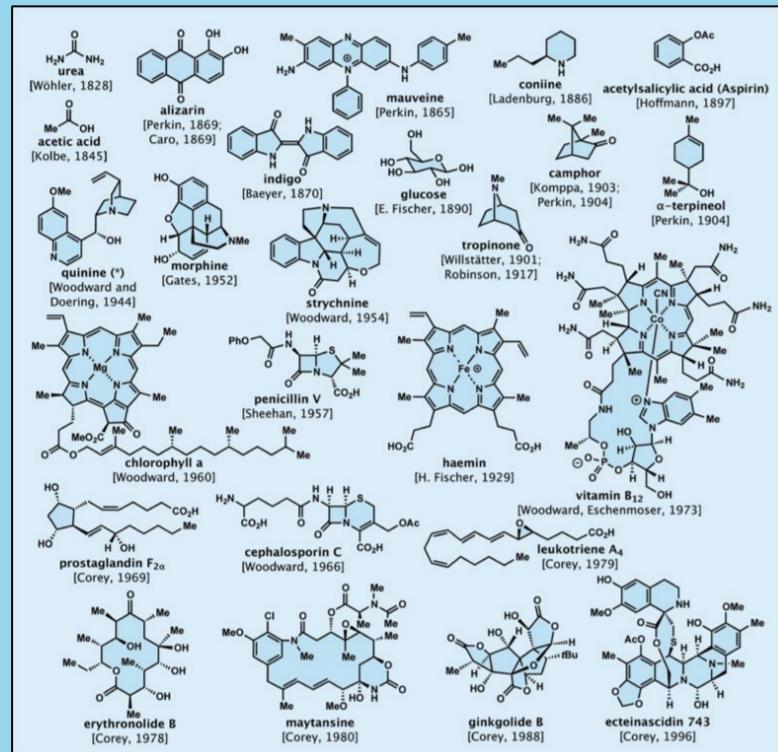
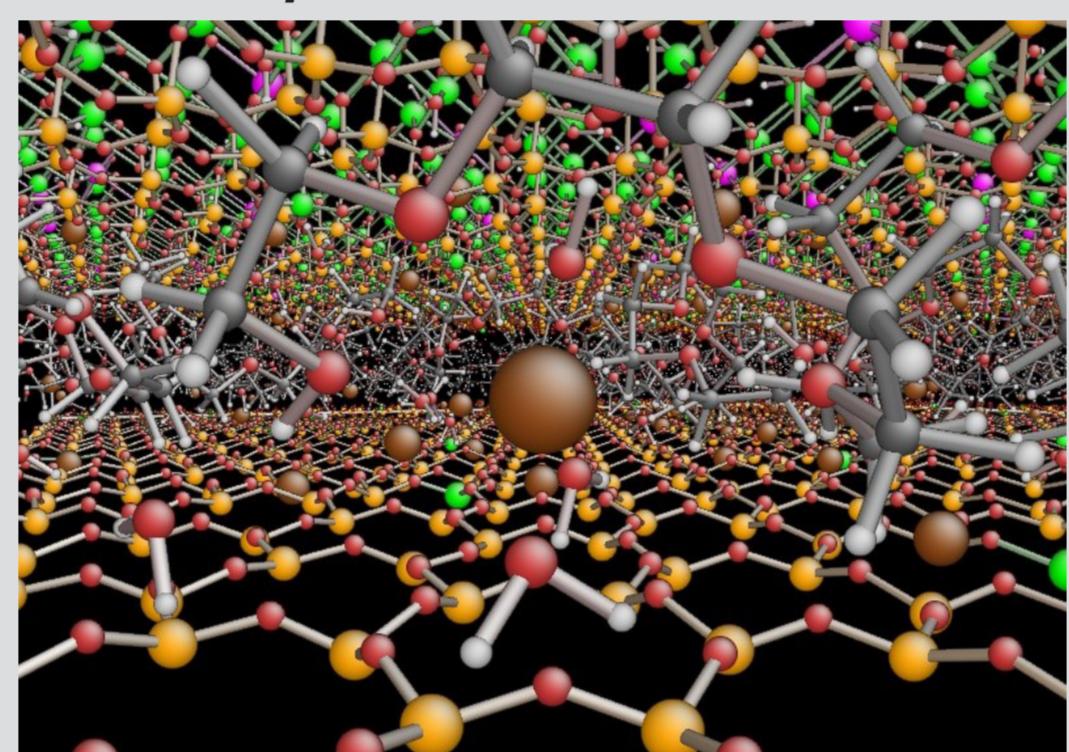
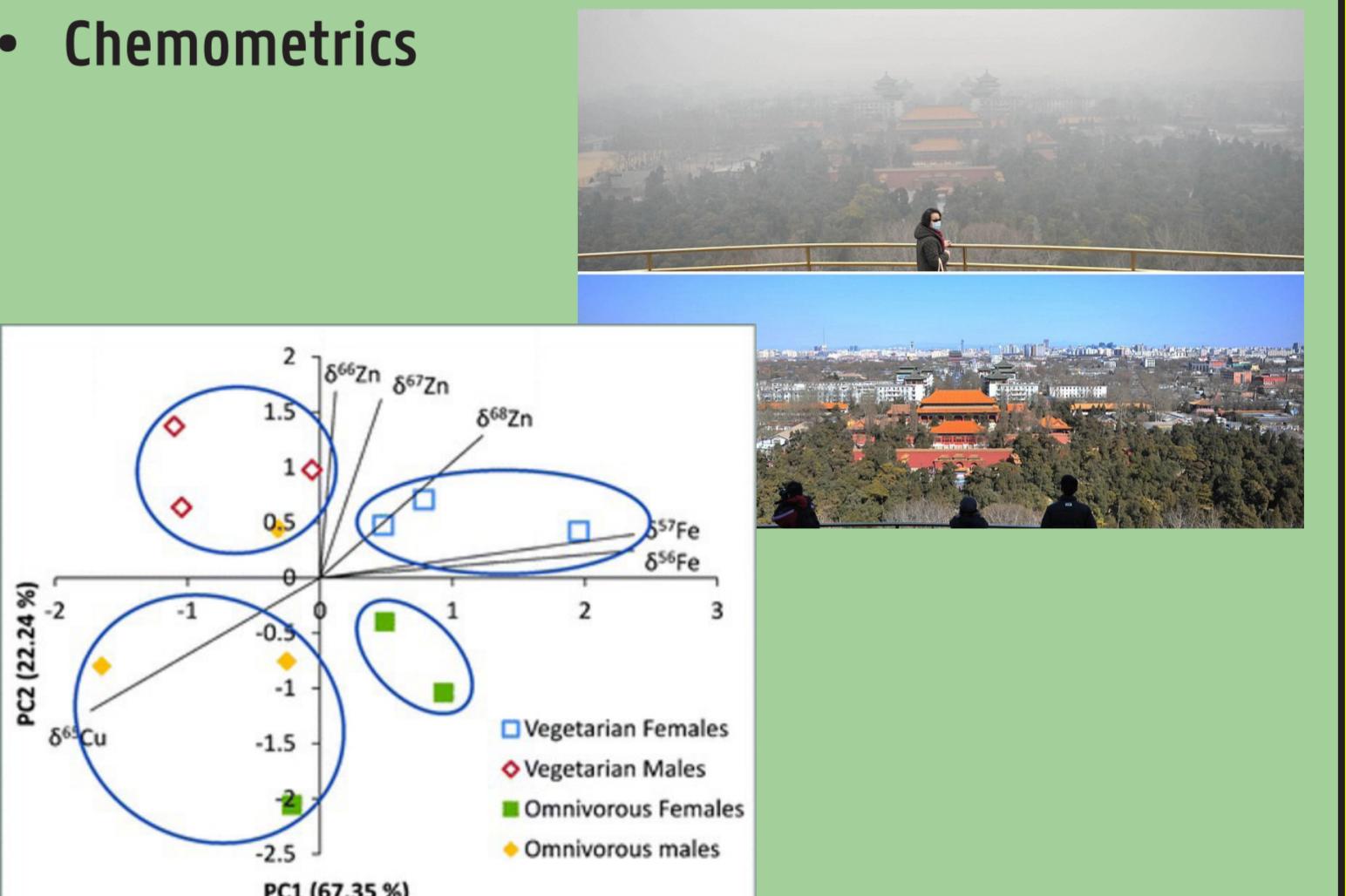


Chemie: onderwijs

Master of Science in Chemistry

Inhoudelijke specialisatie via 3 afstudeertrajecten

1ste SEMESTER

PLICHTVAKKEN (30 stp)		
(BIO)ORGANIC AND POLYMER CHEMISTRY	MATERIALS AND NANO CHEMISTRY	ANALYTICAL AND ENVIRONMENTAL CHEMISTRY
<ul style="list-style-type: none">Advanced Macromolecular ChemistryAdvanced Organic ChemistryMolecular Physical ChemistryMolecular Structure AnalysisIntegrated problems in Bioorganic and Polymer Chemistry 	<ul style="list-style-type: none">Materials PhysicsMolecular Physical ChemistryNanomaterials ChemistrySurface Topology, Internal Structure and CompositionIntegrated Problems in Materials and Nanochemistry 	<ul style="list-style-type: none">Analytical Methods for Material CharacterizationApplication in Analytical & Environmental Sci.Molecular Structure AnalysisEnvironmental AnalysisChemometrics 

2de SEMESTER

INHOUDELIJKE (12 stp) EN VRIJE KEUZEVAKKEN (3 stp)		
<ul style="list-style-type: none">Assymmetric and Bio-organic ChemistryAssymmetric SynthesisChemical BiologyFoundations of NMR and XRD for molecular Structure AnalysisHomogeneous CatalysisMedicinal ChemistryNatural Product ChemistryOrganic Separation Techniques and Mass SpectrometryPolymer Materials for Biomedical to Sustainable AspectsSynthetic Methods and Strategies	<ul style="list-style-type: none">Advanced Quantum ChemistryBioinorganic ChemistryComputational Quantum ChemistryHeterogeneous CatalysisLight and MatterStructural analysis by X-raysThe f-elementsTopics in NanoscienceFunctional CeramicsPolymer Materials, from Biomedical to sustainable Aspects	<ul style="list-style-type: none">Principles and Applications of Stable Isotope AnalysisArcheometryAdvanced X-ray spectroscopic TechniquesAnalytical Raman SpectroscopyField Sampling and AnalysisCosmochemistryMetal Biogeochemical CycleChemical Risk AssessmentFoundations of NMR and XRD for Structure AnalysisOrganic Separation Techniques and Mass SpectrometryLight and MatterStructure Analysis by X-rays
Masterproef deel I (9 stp) Voorbereiding zelfstandig onderzoek in een onderzoeks groep naar keuze		

3de SEMESTER

VRIJE KEUZEVAKKEN (9 stp)
Masterproef deel II (21 stp)
Uitvoeren zelfstandig onderzoek en het schrijven van een scriptie

4de SEMESTER

Stage (30 stp)
Professionalisering door een stage in een bedrijf naar keuze

Sustainable Chemistry & Science Communication (6 stp)