Combining density functional and dynamical mean field theory [1] has boosted electronic structure calculations for correlated materials to a point to establishing this line of work as a new field of research, with tremendous success for addressing both, fundamental and applied questions. We will discuss recent developments in the field, concerning dynamical screening effects [2], combined many-body perturbation + dynamical mean field theory ("GW+DMFT") [3,4] and the most recent "screened exchange dynamical mean field theory" [5]. As a side-product, these results also give new insights into the success of density functional theory for spectroscopies of weakly correlated materials [6].
