Oxyfluoride Phosphors for Lighting
Thomas Vogt
nanoCenter and Department of Chemistry, University of
South Carolina
Columbia, South Carolina, 29208

A new class of lighting phosphors based on the family of antiperovskites with the general stoichiometries  $A_3MO_4F$  (A = Ca, Sr, Ba , M = Al, Ga, In, B) and  $NaCa_2GeO_4F$  have been explored. This talk will provide an overview of both families and point to possible applications in lighting and detection. Particular emphasis will be given to the role of defects in these structures.