

Electronic supplementary information

Theoretical studies on the form and effect of N-doping in ZnGa₂O₄ photocatalyst

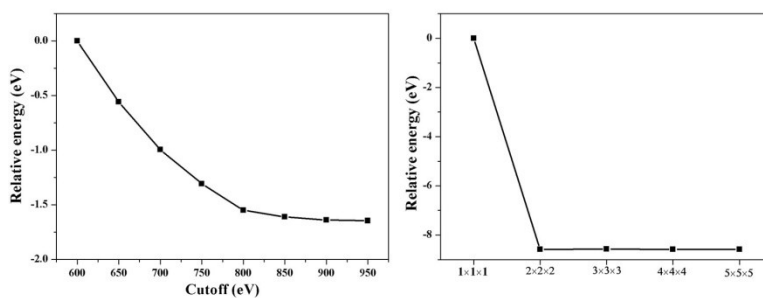


Figure S1. The convergence tests for cutoff and kpoints before theoretical calculations.

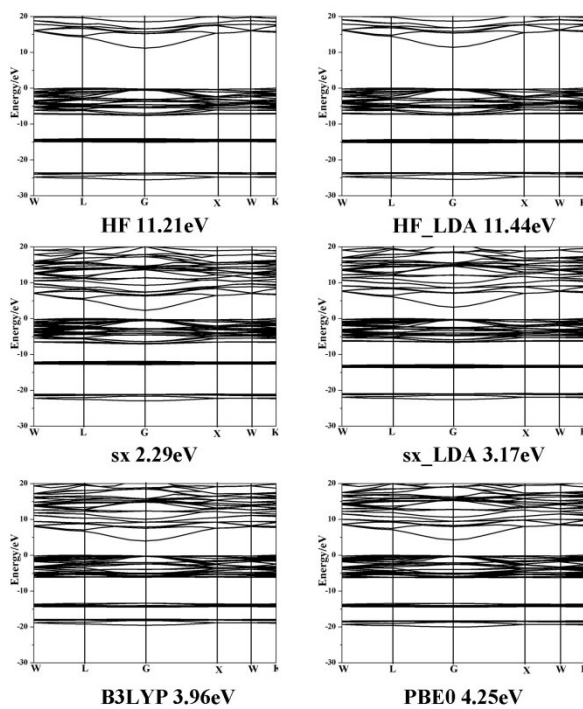


Figure S2. The band structures of ZnGa₂O₄ calculated by HF, HF_LDA, sx (screened exchange functional), sx_LDA, B3LYP, and PBE0.

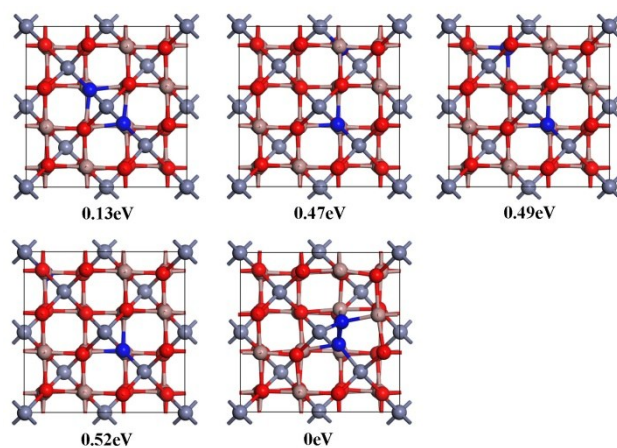


Figure S3. The structures and the relative energies of $2N_s$ -doped $ZnGa_2O_4$ with different doping sites.

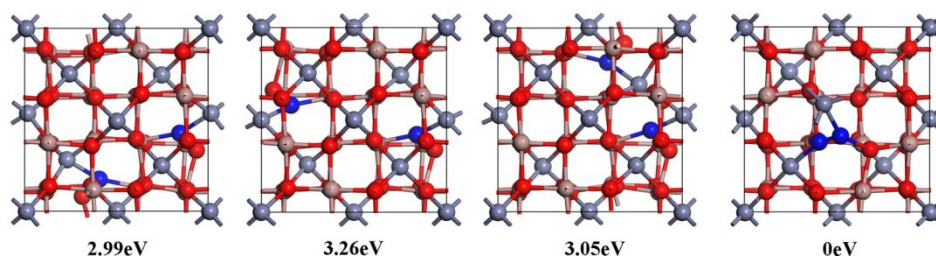


Figure S4. The structures and the relative energies of $2N_i$ -doped $ZnGa_2O_4$ with different doping sites.

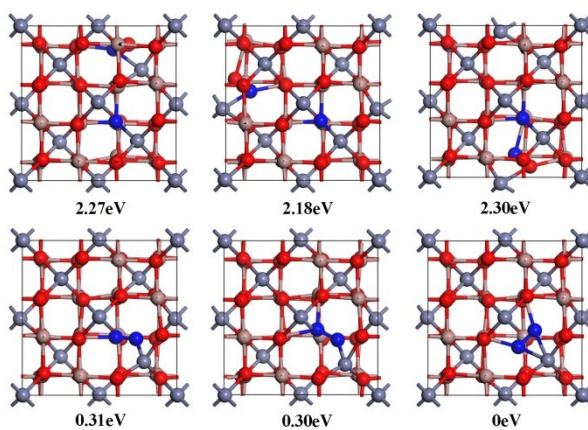


Figure S5. The structures and the relative energies of N_s+N_i -doped $ZnGa_2O_4$ with different doping sites.