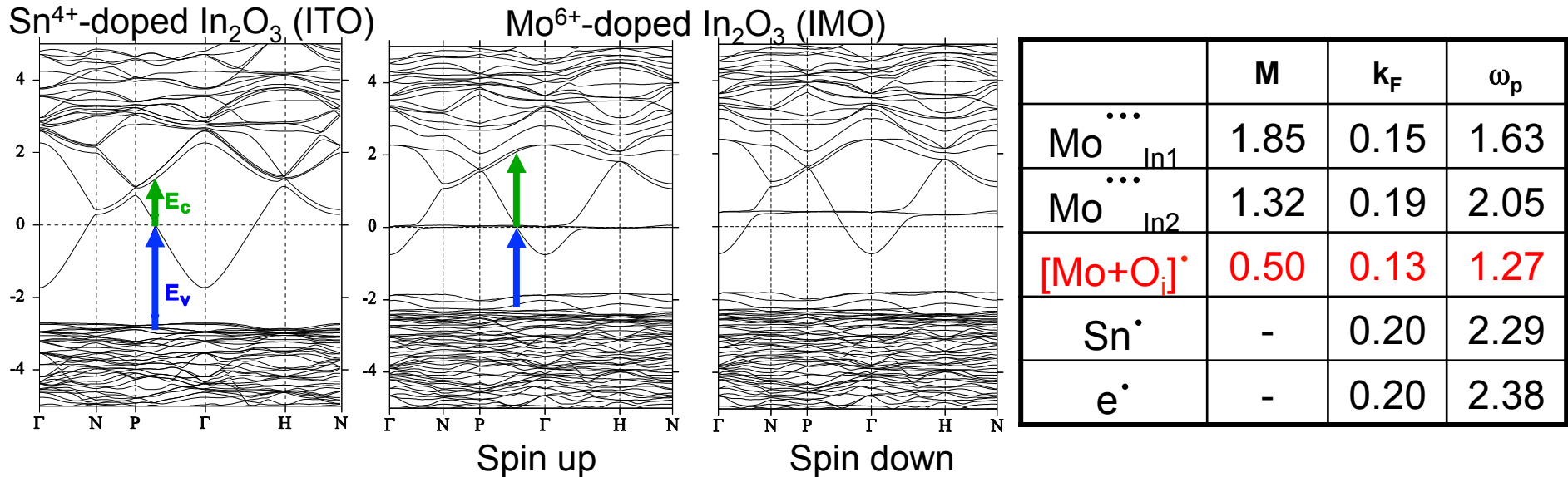


Transition metal dopants as alternative

Mo-doped In_2O_3 : mobility is two times larger than in ITO

⇒ conductivity is increased with no changes in the transmittance



Smaller BM shift due to filling of the localized Mo d-states leads to:

- Smaller increase of m^*
- Larger E_c
- Smaller plasma frequency

Similar behavior in other hosts and with other TM dopants provided:

- Large enough E_g to keep the E_v transitions out of the visible
- Small exchange splitting to keep d^{\uparrow} - d^{\downarrow} transitions out of the visible