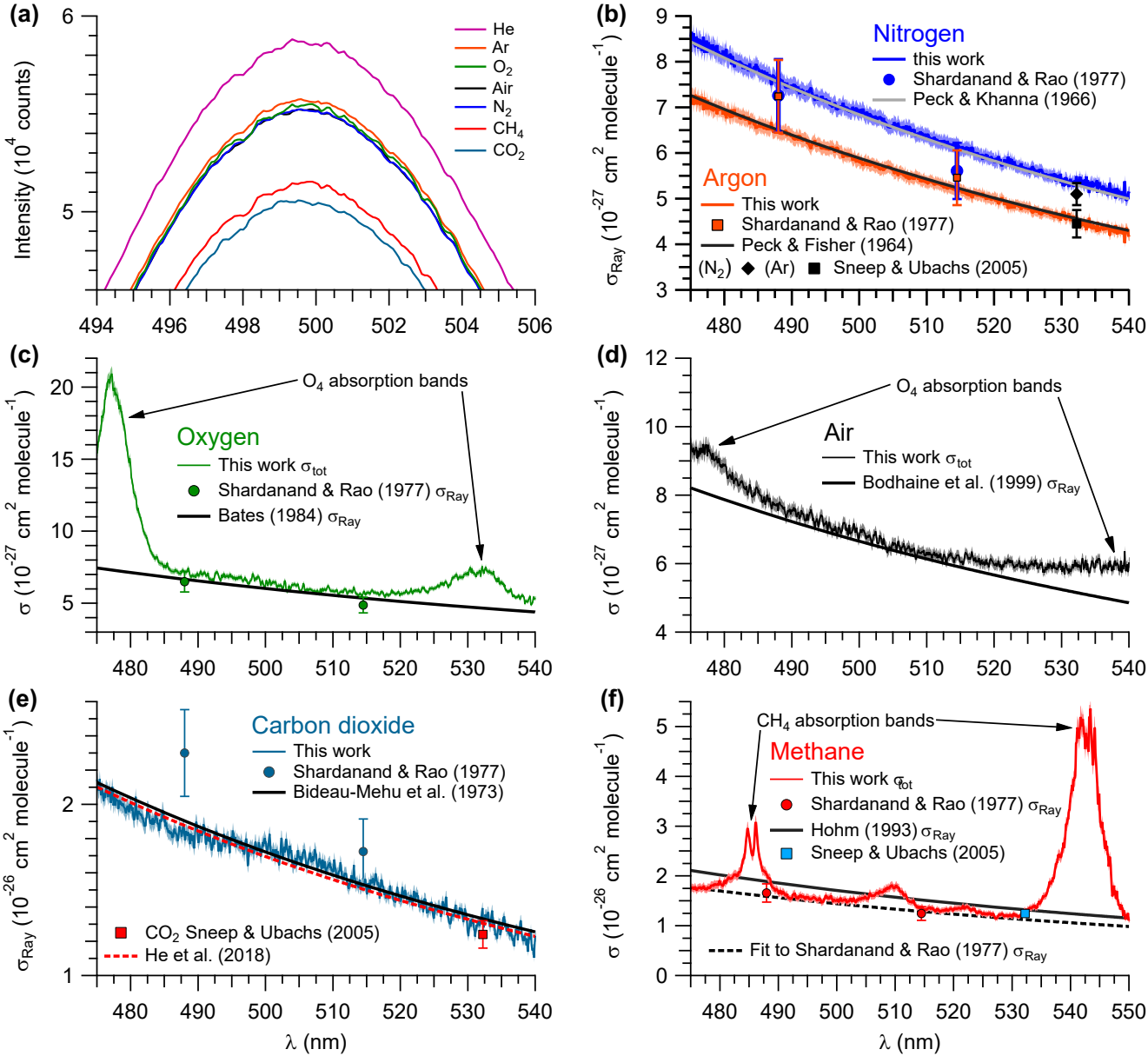
(a)
Intensity (10^4 counts)
He
Ar
O_2
Air
N_2
CH_4
CO_2
(b)
Nitrogen
this work
Shardanand & Rao (1977)
Peck & Khanna (1966)
Argon
This work
Shardanand & Rao (1977)
Peck & Fisher (1964)
(N_2) ◆ (Ar) ■ Sneep & Ubachs (2005)
σ_{Ray} (10^{-27} cm^2 molecule^{-1})
(c)
O_4 absorption bands
Oxygen
This work σ_{tot}
Shardanand & Rao (1977) σ_{Ray}
Bates (1984) σ_{Ray}
σ (10^{-27} cm^2 molecule^{-1})
(d)
O_4 absorption bands
Air
This work σ_{tot}
Bodhaine et al. (1999) σ_{Ray}
σ (10^{-27} cm^2 molecule^{-1})
(e)
Carbon dioxide
This work
Shardanand & Rao (1977)
Bideau-Mehu et al. (1973)
CO_2 Sneep & Ubachs (2005)
He et al. (2018)
σ_{Ray} (10^{-26} cm^2 molecule^{-1})
λ (nm)
(f)
CH_4 absorption bands
Methane
This work σ_{tot}
Shardanand & Rao (1977) σ_{Ray}
Hohm (1993) σ_{Ray}
Sneep & Ubachs (2005)
Fit to Shardanand & Rao (1977) σ_{Ray}
σ (10^{-26} cm^2 molecule^{-1})
λ (nm)