

substance: titanium oxide (TiO₂)
property: exciton binding energy in rutile

E_b	4 meV	from $E_b(\text{eV})$ $= 13.6(\mu/m_0)(\epsilon(0)_{\parallel a}\epsilon(0)_{\parallel c})^{-1}$ and using $\epsilon(0)_{\parallel c} = 257$, $\epsilon(0)_{\parallel a} = 111$, an effective mass of $8.4 m_0$ is obtained	78P
	6 meV	effective mass $10...12 m_0$	80A

References:

- 78P Pascual, J., Camassel, J., Mathieu, H.: Phys. Rev. B18 (1978) 5606.
80A Agekyou, V. T., Berezlinaya, A. A., Lutsenko, V. V., Stepanov, Yu. A.: Fiz. Tver. Tela 22 (1980) 12.