

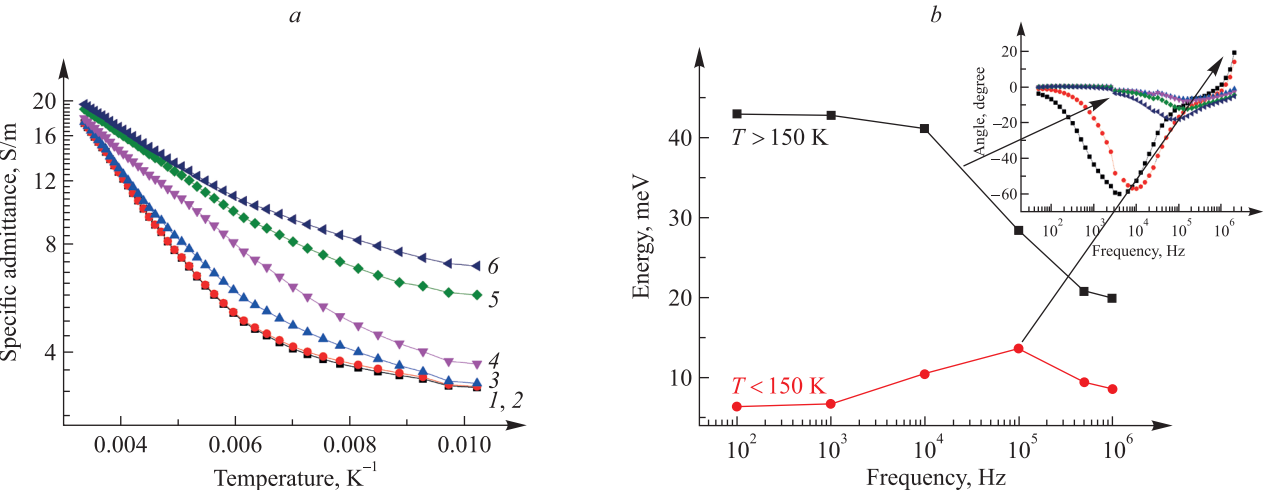


Fig. 4. Temperature dependences of the specific values of the real part of the admittance at different (1 – 100 Hz, 2 – 1 kHz, 3 – 10 kHz, 4 – 100 kHz, 5 – 500 kHz, 6 – 1 MHz) alternating current frequencies (*a*) and frequency dependences of energy characteristics (*b*) in the region of high and low temperatures. The inset shows the frequency dependences of the phase shift angle in the temperature range of 80–303 K for the $(\text{Fe}_{0.45}\text{Co}_{0.45}\text{Zr}_{0.10})_{0.50}(\text{Al}_2\text{O}_3)_{0.50}$ film deposited in an Ar – O₂ mixture