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Figure 1 | Electrostatic-doping-driven structural phase transition in a gating device. a, b, Crystal structures of the 2H (a) and 1T (b) phases of monolayer TMDs.
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We discover that the semiconductor-to-semimetal phase transition in monolayer MoTe₂ can be driven by a gate voltage of several Volts with appropriate choice of dielectric. Structural transitions
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Structural phase transitions in TMDs have so far been induced by thermal or chemical means; purely electrostatic control over crystal phases through electrostatic doping was recently proposed as a theoretical possibility, but has not yet been realized. Here we report the experimental demonstration of an electrostatic-doping-driven phase transition between the hexagonal and monoclinic phases of
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