Can a slowly rotating neutron star be a radio pulsar?

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It is shown that the curvature radius of magnetic field lines in the polar region of a rotating magnetized neutron star can be significantly smaller than the usual curvature radius of dipole magnetic field. The magnetic field in the polar cap is distorted by the toroidal electric currents flowing in the neutron star crust. These currents close up the magnetospheric currents driven by generation process of electron-positron plasma in the pulsar magnetosphere. Due to the decrease of the curvature radius, the electron-positron plasma generation becomes possible even for slowly rotating neutron stars, $P \cdot B_{12}^{-2/3} < 10$ s, where P is the pulsar spin period, B_{12} is the magnetic field B on the star surface expressed in 10^{12} G, $B_{12} = B/10^{12}$ G.