Similar with Zhan's paper, we consider the following regularized problem

$$u_{\epsilon t} - \operatorname{div}\left((a(x) + \epsilon)\left(|(|\nabla u_{\epsilon}^{2} + \epsilon)^{\frac{p-2}{2}}\nabla u_{\epsilon}\right)\right) + b(x)|(|\nabla u_{\epsilon}|^{2} = 0, (x, t) \in Q_{T},$$

$$u_{\epsilon}(x, t) = 0, (x, t) \in \partial\Omega \times (0, T),$$

$$(x, 0) = u_{\epsilon 0}(x), x \in \Omega,$$

$$(1)$$