Uniqueness for doubly nonlinear problems

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We would like to consider from the point of view of uniqueness problems of the type

$$\partial_t u - \nabla \cdot \{a(z,u)|u(z)|^{\alpha(z)}|\nabla u|^{p(z)-2}\nabla u\} = f \ \text{ in } \Omega \times (0,T), \ \ z = (x,t)$$

together with initial and boundary conditions.

This is part of a joint work with S. Antontsev and S. Shmarev.