

# Some existence results on a class of generalized quasilinear Schrödinger equations with Choquard type

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## Abstract

**Abstract.** In this paper, we study the generalized quasilinear Schrödinger equation 
$$-\operatorname{div}(g^2(u)\nabla u) + g(u)g'(u)|\nabla u|^2 + V(x)u = (I_{\alpha} * |u|^p)|u|^{p-2}u, \quad x \in \mathbb{R}^N,$$
 where  $N \geq 3$ ,  $0 < \alpha < N$ .

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