

**Ye, Zhuan****On the global regularity for the anisotropic dissipative surface quasi-geostrophic equation.**(English) [Zbl 1429.35206](#)

Nonlinearity 33, No. 1, 72-105 (2020).

**MSC:**

- [35R11](#) Fractional partial differential equations
- [35Q35](#) PDEs in connection with fluid mechanics
- [76U05](#) General theory of rotating fluids
- [86A05](#) Hydrology, hydrography, oceanography
- [35A01](#) Existence problems for PDEs: global existence, local existence, non-existence
- [35B45](#) A priori estimates in context of PDEs
- [35B65](#) Smoothness and regularity of solutions to PDEs
- [76D03](#) Existence, uniqueness, and regularity theory for incompressible viscous fluids

Cited in 1 Document

**Keywords:**

surface quasi-geostrophic equation; anisotropic dissipation; global regularity

**Full Text:** [DOI](#)**References:**

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