

[Stevens, Angela](#)

The derivation of chemotaxis equations as limit dynamics of moderately interacting stochastic many-particle systems. (English) [Zbl 0963.60093](#)

[SIAM J. Appl. Math.](#) 61, No. 1, 183-212 (2000); erratum *ibid.* 61, No. 6, 2200 (2001).

MSC:

- [60K35](#) Interacting random processes; statistical mechanics type models; percolation theory
- [35K55](#) Nonlinear parabolic equations
- [60J60](#) Diffusion processes
- [35Q80](#) Applications of PDE in areas other than physics (MSC2000)
- [92B05](#) General biology and biomathematics

Cited in 1 Review Cited in 73 Documents
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Keywords:

[aggregation](#); [chemotaxis](#); [limit dynamics](#); [moderate interaction](#); [stochastic many-particle system](#)

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