

The list of publications of Juha Kinnunen

Book

1. J. Kinnunen, J. Lehrbäck and A. Vähäkangas, *Maximal Function Methods for Sobolev Spaces*, Mathematical Surveys and Monographs, 257. American Mathematical Society, 2021.

Articles submitted for publication

2. J. Kinnunen and W. Yan, *Construction of stable self-similar solutions to parabolic double-phase equations* (2026).

3. Y. Fang, J. Kinnunen and C. Zhang, *Regularity theory for degenerate fully nonlinear nonlocal equations with a Hamiltonian term* (2025).

4. A. Aghajani and J. Kinnunen, *New inequalities related to sums of L_p functions in connection with Carbery's problems* (2025).

Articles in international refereed journals

5. A. Aghajani, C. Cowan and J. Kinnunen, *Liouville-type results for nonlinear elliptic equations with Baouendi-Grushin operators and nonlinear gradient terms*, Adv. Differential Equations **31** (2026), no. 9-10, 663-693.

6. Y. Fang, J. Kinnunen and C. Zhang, *Weak Harnack inequalities for nonlocal double phase problems*, Calc. Var. Partial Differential Equations **65** (2026), Paper No. 78, 29 pp.

7. J. Kinnunen, J. Lehrbäck, A.V. Vähäkangas and D. Yang, *Self-improving properties of weighted norm inequalities on metric measure spaces*, Rev. Mat. Complut. (2025), <https://doi.org/10.1007/s13163-025-00539-3>.

8. A. Aghajani, J. Kinnunen and V. Radulescu, *Hardy-type inequalities for the drifting p -Laplace operator and applications*, Proc. Roy. Soc. Edinburgh Sect. A. (2025), 1-33, DOI:10.1017/prm.2025.14.

9. J. Kinnunen and K. Myrskyläinen, *Characterizations of parabolic reverse Hölder classes*, J. Anal. Math. **155** (2025), no. 2, 609-656.

10. A. Aghajani and J. Kinnunen, *Nonexistence results for quasilinear elliptic problems with singular lower order terms*, Discrete Contin. Dyn. Syst. **45** (2025), no. 12, 4606-4629.

11. A. Aghajani, J. Kinnunen and V. Radulescu, *Nonexistence results and integral estimates for some higher order nonlinear elliptic problems*, J. Differential Equations **424** (2025), 183-207.

12. W. Kim, J. Kinnunen and L. Särkiö, *Lipschitz truncation method for parabolic double-phase systems and applications*, J. Funct. Anal. **288** (2025), Paper No. 110738.

13. P. Garain, J. Kinnunen and W. Kim, *On the regularity theory for mixed anisotropic and nonlocal p -Laplace equations and its applications to singular problems*, Forum Math. **36** (2024), no. 3, 697-715.

14. P. Garain and J. Kinnunen, *On the regularity theory for mixed local and nonlocal quasilinear parabolic equations*, Ann. Sc. Norm. Super. Pisa Cl. Sci. (5) **25** (2024), no. 1, 495-540.

15. J. Kinnunen, K. Myrskyläinen, D. Yang and C. Zhu, *Parabolic Muckenhoupt weights with time lag on spaces of homogeneous type with monotone geodesic property*, Potential Anal. **60** (2024), no. 4, 1513-1569.

16. J. Kinnunen and K. Myrskyläinen, *Characterizations of parabolic Muckenhoupt classes*, Adv. Math. **444** (2024), Paper No. 109612.

17. J. Kinnunen, A. Nastasi and C. Pacchiano Camacho, *Gradient higher integrability for double phase problems on metric measure spaces*, Proc. Amer. Math. Soc. **152** (2024), no. 3, 1233-1251.

18. A. Aghajani and J. Kinnunen, *Supersolutions to nonautonomous Choquard equations in general domains*, Adv. Nonlinear Anal. **12** (2023), no. 1.

19. J. Kinnunen, K. Myrskyläinen and D. Yang, *John-Nirenberg inequalities for parabolic BMO*, Math. Ann. **387** (2023), no. 3-4, 1125-1162.

20. W. Kim, J. Kinnunen and K. Moring, *Gradient higher integrability for degenerate parabolic double-phase systems*, Arch. Ration. Mech. Anal. **247** (2023), no. 5, 79.
21. A. Banerjee, P. Garain and J. Kinnunen, *Lower semicontinuity and pointwise behavior of supersolutions for some doubly nonlinear nonlocal parabolic p -Laplace equations*, Commun. Contemp. Math. **25** (2023), no. 8, Paper No. 2250032, 23 pp.
22. P. Garain and J. Kinnunen, *Weak Harnack inequality for a mixed local and nonlocal parabolic equation*, J. Differential Equations **360** (2023), 373-406.
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24. P. Garain and J. Kinnunen, *On the regularity theory for mixed local and nonlocal quasilinear elliptic equations*, Trans. Amer. Math. Soc. **375** (2022), no. 8, 5393-5423.
25. A. Banerjee, P. Garain and J. Kinnunen, *Some properties of subsolutions and supersolutions for a doubly nonlinear nonlocal parabolic p -Laplace equation*, Ann. Mat. Pura Appl. (4) **201** (2022), no. 4, 1717-1751.
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