

Publications

by Francesco Petitta¹

1. V. De Cicco, D. Giachetti, F. Oliva, F. Petitta, The Dirichlet problem for singular elliptic equations with general nonlinearities, submitted
2. F. Oliva, F. Petitta, A nonlinear parabolic problem with singular terms and nonregular data, *Nonlinear Analysis*, to appear
3. F. Oliva, F. Petitta, *Finite and Infinite energy solutions of singular elliptic problems: Existence and Uniqueness*, *Journal of Differential Equations*, 264 (2018) pp. 311–340
4. L. Giacomelli, S. Moll, F. Petitta, *Nonlinear diffusion in transparent media: the resolvent equation*, *Adv. Calc. Var.*, 11 (2018), 405–432
5. L. Giacomelli, S. Moll, F. Petitta, *Optimal waiting time bounds for some flux-saturated diffusion equations*, *Comm. Partial Differential Equations*, **42** (4), (2017) 556–578
6. F. Oliva, F. Petitta, *On a singular elliptic equation with a general measure source*, *ESAIM: Control, Optimisation and Calculus of Variations*, **22** (1) (2016) 289–308.
7. F. Petitta, *Some remarks on the duality method for integro-differential equations with measure data*, *Adv. Nonlinear Stud.* **16** (1), (2016), 115–124
8. A. Dall’Aglia, L. Orsina, F. Petitta, *Existence of solutions for degenerate parabolic equations with singular terms*, *Nonlinear Analysis*, **131** (2016) 273–288.
9. L. Orsina, F. Petitta, *A Lazer-McKenna type singular problem with diffuse measures*, *Differential and Integral Equations*, **29** (1–2) (2016), 19–36.
10. F. Petitta, A. Porretta, *On the notion of renormalized solution to nonlinear parabolic equations with general measure data*, *J. of Elliptic and Parabolic Equations*, **1**, (2015), 201–214.
11. S. Moll, F. Petitta, *Large solutions for the elliptic 1-laplacian with absorption*, *J. Anal. Math.*, **125** (1) (2015), 113–138.
12. D. Giachetti, F. Petitta, S. Segura de Leon, *A priori estimates for elliptic problems with a strongly singular gradient term and a general datum*, *Differential and Integral Equations*, **26** (9/10) (2013), 913–948.
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14. S. Moll, F. Petitta, *Large solutions for nonlinear parabolic problems without absorption terms*, *J. Funct. Anal.*, **262** (4) (2012) 1566–1602.

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15. D. Giachetti, F. Petitta, S. Segura de Leon, *Elliptic equations having a singular quadratic gradient term and a changing sign datum*, Comm. Pure Appl. Anal., **11** (5), (2012), 1875–1895.
16. F. Petitta, A. Ponce and A. Porretta, *Diffuse measures and nonlinear parabolic equations*, J. Evol. Equations, **11** (4) (2011), 861–905.
17. L. Boccardo, T. Leonori, L. Orsina, F. Petitta, *Quasilinear elliptic equations with singular quadratic growth terms*, Comm. Contemp. Math., **13** No. 4 (2011) , 607–642.
18. T. Leonori, F. Petitta, *Local estimates for parabolic equations with nonlinear gradient terms*, Calc. Var. and PDE's, **42** (1) (2011) 153–187.
19. P. J. Martínez-Aparicio, F. Petitta, *Parabolic equations with nonlinear singularities*, Nonlinear Analysis **74** (2011) 114–131.
20. K. H. Karlsen, F. Petitta, S. Ulusoy, *A duality approach to the fractional laplacian with measure data*, Publ. Mat. **55** (2011), 151–161.
21. F. Petitta, *A generalized porous medium equation related to some singular quasilinear problems*, Nonlinear Analysis **72** (11), (2010) 4115–4123.
22. D. Arcoya, J. Cármona, T. Leonori, P. J. Martínez-Aparicio, L. Orsina, F. Petitta, *Existence and Nonexistence Results for Singular Quasilinear Equations*, J. Differential Equations **246** (10), (2009) 4006–4042.
23. F. Petitta, *A nonexistence result for nonlinear parabolic equations with singular measure data*, Proc. Roy. Soc. Edinburgh A, **139** (2), (2009), 381–392.
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25. F. Petitta, *Renormalized solutions of nonlinear parabolic equations with general measure data*, Ann. Mat. Pura ed Appl., **187** (4) (2008), 563–604.
26. F. Petitta, *Large time behavior for solutions of nonlinear parabolic problems with sign-changing measure data.*, Electron. J. Differential Equations, No. **132** (2008), 1–10.
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28. T. Leonori, F. Petitta, *Existence and regularity results for some singular elliptic problems*, Adv. Nonlinear Stud., **7** (2007), 329–344.
29. F. Petitta, *Asymptotic behavior of solutions for linear parabolic equations with general measure data*, C. R. Acad. Sci. Paris, Ser. I **344** (2007) 571–576.

30. F. Petitta, *Equazioni paraboliche nonlineari con dato misura*, Boll. Unione Mat. Ital. Sez. A **2**, (2007), 323–326.
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33. F. Petitta, A. C. Ponce, A. Porretta, *Nonlinear parabolic equations with absorption terms and measure data*, Proceedings XXII Congreso de Ecuaciones Diferenciales y Aplicaciones, XII Congreso de Matemática Aplicada, Universidad de Les Illes Balears, Palma de Mallorca, (September 5–9, 2011), (Actas Electrónicas). ISBN: 978-84-694-4935-6
34. S. Moll, F. Petitta, *Large Solutions for Parabolic Equations Without Absorption*, Proceedings XXII Congreso de Ecuaciones Diferenciales y Aplicaciones, XII Congreso de Matemática Aplicada, Universidad de Les Illes Balears, Palma de Mallorca, (September 5–9, 2011), (Actas Electrónicas). ISBN: 978-84-694-4935-6

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35. F. Petitta, *A Not So Long Introduction to the Weak Theory of Parabolic Equations with Singular Data*, Lecture Notes of the Facultad de Ciencias, Universidad de Granada (Spain), October-December 2007.
<http://www.mat.uniroma1.it/people/orsina/EDP/EDP02.pdf>
36. F. Petitta, *Nonlinear parabolic equations with general measure data*, Ph. D. Thesis (2006).
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37. F. Petitta, *Soluzioni rinormalizzate per equazioni ellittiche con dati misura*, Laurea Thesis (2001), (Advisor: Prof. Luigi Orsina).
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