

Maria Rosaria Lancia's publications

1. M. R. Lancia (in coll. with M.Cefalo, S.Creo, M. Gallo, and P.Vernole) , Approximation of 3D Stokes flows in fractal domains, to appear on SEMA SIMAI Springer Series.
2. M. R. Lancia (in coll. with S.Creo, and P.Vernole),” M-Convergence of p-fractional energies in irregular domains”, to appear on Journal of Convex Analysis, 2021.
3. M.R.Lancia (in coll. with S.Creo, and A. I. Nazarov),” Regularity results for nonlocal evolution Venttsel problems”, To appear on FCAA arXiv: 2004.00515
4. M.R.Lancia (in coll. con S.Creo, and P.Vernole),”Convergence of fractional diffusion processes on extension domains” , J. Evol. Equ. 20 (2020), 109 – 139.
5. M.R.Lancia (in coll. con S.Creo),” Friedrichs inequality in irregular domains”, J. Math. Anal. Appl., 2020, 484, 109-139 DOI: 10.1016/j.jmaa.2019.123665
6. M.R.Lancia (in coll. con S.Creo, M.Hinz, A.Teplyaev and P.Vernole) ”Magnetostatic Problems in fractal domains”. To appear on the special series Fractals and Dynamics in Mathematics, Science and the Arts published by World Scientific. Volume 5: Analysis, Probability and Mathematical Physics on Fractals, 2020, 477-502. https://doi.org/10.1142/9789811215537_015
7. M.R.Lancia (in coll. con M.Cefalo, S.Creo, and P.Vernole), ”Nonlocal Venttsel’ diffusion in fractal-type domains: regularity results and numerical approximation”. Math. M. in Appl. Sciences,14, 4712-4733, 2019
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11. M.R.Lancia (in coll. con M.Hinz, A.Teplyaev and P.Vernole)”Fractal snowflake domain diffusion with boundary and interior drifts”. *JMAA*,**457**, 672-693, (2018).
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13. M.R.Lancia (in coll. con A. Velez-Santiago and P.Vernole),”Quasi-linear Venttsel problems with nonlocal boundary conditions on fractal domains”. Non Linear Analysis Real world applications , 35,265-291, (2017).
14. M.R.Lancia (in coll. con V. regis Durante, P.Vernole),Asymptotics for Venttsel problems for operators in non divergence form in irregular domains”, Disc. Continuous Dynamical Systems 9,n.5,1493-1520, (2016)
15. M.R.Lancia (in coll. con V. regis Durante, P.Vernole), Density results for energy spaces on some fractafolds. Z. Anal. Anwend. 34, 357372, (2015).

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17. M.R.Lancia (in coll. con P.Vernole), Venttsel' problems in fractal domains *J. Evol. Equ.* 14, 681712, (2014).
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21. M.R.Lancia (in coll con M.Cefalo e H.Liang,), " Heat flow problems across fractal mixtures:regularity results and numerical approximation" *Differential and Integral equations.* 26,(2013), 1027-1054
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23. M.R.Lancia (in coll. con P.Vernole) "Semilinear evolution transmission problems across fractal layers" *NonLinear Analysis T.M.A.*, **75**, 4222-4240, (2012)
24. M.R. Lancia (in coll. con G. Dell'Acqua e Massimo Cefalo)" Numerical approximation of transmission problems across Koch-type highly conductive layers. *Applied Math. and Comp.*, **218**, 9, 5453-5473, (2012).
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