# Papers reviewed by A. Greco

| | Authors | Title | Journal / Book | Read the review: |
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| 1 | Xu, Meng and Chen, Ya Zhe | *Hölder continuity of weak solutions for parabolic equations with nonstandard growth conditions* | Acta Math. Sin. (Engl. Ser.) **22**(3) (2006), 793–806 | MR 2219691 |
| 2 | Xu, Zhiting | *Oscillation of second order damped elliptic differential equations* | Math. Comput. Modelling **47**(3-4) (2008), 341–351 | MR 2378839 |
| 3 | Kurata, Kazuhiro and Shi, Junping | *Optimal spatial harvesting strategy and symmetry-breaking* | Appl. Math. Optim. **58**(1) (2008), 89–110 | Zbl 1178.35383 |
| 4 | John Andersson and Georg S. Weiss | *A parabolic free boundary problem with Bernoulli type condition on the free boundary* | J. Reine Angew. Math. **627** (2009), 213–235 | Zbl 1171.35128 |
| 5 | Rafael de la Llave and Enrico Valdinoci | *Symmetry for a Dirichlet-Neumann problem arising in water waves* | Math. Res. Lett. **16**(5-6) (2009), 909–918 | Zbl 1202.35066 |
| 6 | Friedemann Brock | *Rearrangements and applications to symmetry problems in PDE* | Handbook of differential equations: Stationary partial differential equations. Vol. IV (2007) Elsevier/North Holland | Zbl 1192.35086 |
| 7 | Louis Jeanjean and Marco Squassina | *Existence and symmetry of least energy solutions for a class of quasi-linear elliptic equations* | Ann. Inst. H. Poincaré Anal. Non Linéaire **26**(5) (2009), 1701–1716 | MR 2566706 |
| 8 | Ilaria Fragalà, Filippo Gazzola, Jimmy Lamboley and Michel Pierre | *Counterexamples to symmetry for partially overdetermined elliptic problems* | Analysis, München **29**(1) (2009), 85–93 | Zbl 1180.35200 |
| 9 | Maria Francesca Betta and Anna Mercaldo | *Continuous dependence on the data for nonlinear elliptic equations via symmetrization* | Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei (9) Mat. Appl. **21**(1) (2010), 1–14 | MR 2608954 |
| 10 | Luigi Montoro, Berardino Sciunzi, and Marco Squassina | *Symmetry results for nonvariational quasi-linear elliptic systems* | Adv. Nonlinear Stud. **10**(4) (2010), 939–955 | MR 2683690 |
| 11 | Lin, Ya-Ping and Tzeng, Shyuh-yaur | *Steady states and standing pulses of a skew-gradient system* | Taiwanese J. Math. **14**(5) (2010), 1849–1865 | Zbl 1231.35061 |
| 12 | Ishige, Kazuhiro and Paolo Salani | *Parabolic quasi-concavity for solutions to parabolic problems in convex rings* | Math. Nachr. **283**(11) (2010), 1526–1548 | Zbl 1206.35020 |
| 13 | Giuseppe Buttazzo and Bernd Kawohl | *Overdetermined boundary value problems for the infinity-Laplacian* | Int. Math. Res. Not. **2011**(2) (2011), 237–247 | Zbl 1219.35145 |
| 14 | Juraj Földes | *On symmetry properties of parabolic equations in bounded domains* | J. Differential Equations **250**(12) (2011), 4236–4261 | Zbl 1223.35027 |

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| 15 | Jin, Tianling | *Symmetry and nonexistence of positive solutions of elliptic equations and systems with Hardy terms* | Ann. Inst. Henri Poincaré, Anal. Non Linéaire **28**(6) (2011), 965–981 | Zbl 1235.35018 |
| 16 | Shioji, Naoki and Watanabe, Kohtaro | *Radial symmetry of positive solutions for semilinear elliptic equations in the unit ball via elliptic and hyperbolic geometry* | J. Differential Equations **252**(2) (2012), 1392–1402 | Zbl 1237.35064 |
| 17 | Juraj Földes | *On Serrin's symmetry result in nonsmooth domains and its applications* | Adv. Differ. Equ. **18**(5-6) (2013), 523–548 | Zbl 1272.35018 |
| 18 | Alberto Saldaña and Tobias Weth | *Asymptotic axial symmetry of solutions of parabolic equations in bounded radial domains* | J. Evol. Equ. **12**(3) (2012), 697-712 | Zbl 1259.35012 |
| 19 | Chen, Chuanqiang and Hu, Bowen | *A microscopic convexity principle for spacetime convex solutions of fully nonlinear parabolic equations* | Acta Math. Sin., Engl. Ser. **29**(4) (2013), 651–674 | Zbl 1267.35105 |
| 20 | Graziano Crasta and Ilaria Fragalà | *A new symmetry criterion based on the distance function and applications to PDE's* | J. Differential Equations **255**(7) (2013), 2082–2099 | Zbl 1292.35175 |
| 21 | Teresa Radice and Gabriella Zecca | *The maximum principle of Alexandrov for very weak solutions* | J. Differential Equations **256**(3) (2014), 1133–1150 | MR 3128934 |
| 22 | Martin Traizet | *Classification of the solutions to an overdetermined elliptic problem in the plane* | Geom. Funct. Anal. **24**(2) (2014), 690–720 | Zbl 1295.35344 |
| 23 | Chiara Bianchini, Antoine Henrot, and Paolo Salani | *An overdetermined problem with non-constant boundary condition* | Interfaces Free Bound. **16**(2) (2014), 215–241 | Zbl 1297.35153 |
| 24 | Ishige, Kazuhiro and Paolo Salani | *Parabolic power concavity and parabolic boundary value problems* | Math. Ann. **358**(3-4) (2014), 1091–1117 | Zbl 1325.35071 |
| 25 | Chen, Chuanqiang, Ma, Xinan and Shi, Shujun | *Curvature estimates for the level sets of solutions to the Monge-Ampère equation* $\det D^2u = 1$ | Chin. Ann. Math. Ser. B **35**(6) (2014), 895–906 | MR 3271422 |
| 26 | Ishige, Kazuhiro and Paolo Salani | *A note on parabolic power concavity* | Kodai Math. J. **37**(3) (2014), 668–679 | Zbl 1316.35145 |
| 27 | Lucio Boccardo | *Dirichlet problems with singular convection terms and applications* | J. Differential Equations **258**(7) (2015), 2290–2314 | MR 3306339 |
| 28 | Juraj Földes and Peter Poláčik | *Equilibria with a nontrivial nodal set and the dynamics of parabolic equations on symmetric domains* | J. Differential Equations **258**(6) (2015), 1859–1888 | Zbl 1328.35109 |
| 29 | Giulio Ciraolo, Rolando Magnanini, and Shigeru Sakaguchi | *Symmetry of minimizers with a level surface parallel to the boundary* | J. Eur. Math. Soc. (JEMS) **17**(11) (2015), 2789–2804 | Zbl 1335.49059 |
| 30 | Giulio Ciraolo, Rolando Magnanini, and Vincenzo Vespri | *Hölder stability for Serrin's overdetermined problem* | Ann. Mat. Pura Appl. (4) **195**(4) (2016), 1333–1345 | Zbl 1348.35146 |

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| 31 | Giulio Ciraolo and Luigi Vezzoni | *A remark on an overdetermined problem in Riemannian geometry* | Filippo Gazzola (ed.) et al., Geometric properties for parabolic and elliptic PDE's. Contributions of the 4th Italian-Japanese workshop, GPPEPDEs, Palinuro, Italy, May 25–29, 2015. Springer Proceedings in Mathematics & Statistics **176** (2016), 87–96 | Zbl 1356.35150 |
| 32 | Chiara Bianchini and Giulio Ciraolo | *A note on an overdetermined problem for the capacitary potential* | Filippo Gazzola (ed.) et al., Geometric properties for parabolic and elliptic PDE's. Contributions of the 4th Italian-Japanese workshop, GPPEPDEs, Palinuro, Italy, May 25–29, 2015. Springer Proceedings in Mathematics & Statistics **176** (2016), 41–48 | Zbl 1356.35149 |
| 33 | Sven Jarohs | *Symmetry of solutions to nonlocal nonlinear boundary value problems in radial sets* | NoDEA, Nonlinear Differ. Equ. Appl. **23**, No. 3, Article ID 32 (2016), 22 pp. | Zbl 1364.35021 |
| 34 | Antonio Ros, David Ruiz, and Pieralberto Sicbaldi | *A rigidity result for overdetermined elliptic problems in the plane* | Comm. Pure Appl. Math. **70** (2017) | Zbl 1373.35207 |
| 35 | Wang, Lizhou | *A symmetry result for the torsion equation in an unbounded domain in 3D* | J. Math. Anal. Appl. **455** (2017), 477–499 | Zbl 1379.35201 |
| 36 | Marius Ghergu, Jacques Giacomoni, and Gurpreet Singh | *Global and blow-up radial solutions for quasilinear elliptic systems arising in the study of viscous, heat conducting fluids* | Nonlinearity **32** (2019), 1546–1569 | Zbl 1423.35127 |
| 37 | José M. Espinar and Laurent Mazet | *Characterization of f-extremal disks* | J. Differential Equations **266** (2019), 2052–2077 | Zbl 1429.35163 |
| 38 | Anup Biswas and Sven Jarohs | *On overdetermined problems for a general class of nonlocal operators* | J. Differential Equations **268** (2020), 2368–2393 | Zbl 07149087 |
| 39 | Jin, Lingyu and Li, Yan | *A Hopf's lemma and the boundary regularity for the fractional p-Laplacian* | Discrete Contin. Dyn. Syst. **39** (2019), 1477–1495 | Zbl 07024022 |
| 40 | Stefan Steinerberger | *Hot spots in convex domains are in the tips (up to an inradius)* | Comm. Partial Differential Equations **45**(6) (2020), 641–654 | MR 4107000 |
| 41 | Italo Capuzzo Dolcetta | *The weak maximum principle for degenerate elliptic equations: unbounded domains and systems* | Math. Eng. **2** (2020), 772–786 | MR 4142370 |
| 42 | Layan El Hajj | *A convexity problem for a semi-linear PDE* | Appl. Anal. **100** (2021), 1816–1826 | Zbl 07350906 |

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| 43 | Pablo Blanc, Fernando Charro, Juan J. Manfredi and Julio D. Rossi | *A nonlinear mean value property for the Monge-Ampère operator* | J. Convex Anal. **28** (2021), 353–386 | MR 4245872 |
| 44 | Murat Akman, Agnid Banerjee and Mariana Smit Vega Garcia | *On a Bernoulli-type overdetermined free boundary problem* | Ann. Fenn. Math. **46** (2021), 601–618 | Zbl 07395562 |
| 45 | Behrouz Emamizadeh, Liu, Yichen and Giovanni Porru | *Overdetermined problems for p-Laplace and generalized Monge-Ampère equations* | Complex Var. Elliptic Equ. **67** (2022), 807–821 | Zbl 07499547 |
| 46 | Lorenzo Cavallina | *Local analysis of a two phase free boundary problem concerning mean curvature* | Indiana Univ. Math. J. **71** (2022), 1411–1435 | Zbl 07619425 |
| 47 | Lee, Jihye and Seo, Keomkyo | *Radial symmetry and partially overdetermined problems in a convex cone* | Math. Nachr. **296** (2023), 1204–1224 | Zbl 07747152 |
| 48 | Onodera, Michiaki | *Linear stability analysis of overdetermined problems with non-constant data* | Math. Eng. (Springfield) **5**, Paper No. 48 (2023), 18 pagg. | Zbl 07817683 |
| 49 | Jeon, Seongmin and Henrik Shahgholian | *Convexity for free boundaries with singular term (nonlinear elliptic case)* | Math. Ann. **389**(1) (2024), 451–488 | Zbl 1551.35497 |
| 50 | Antonio Celentano, Carlo Nitsch and Cristina Trombetti | *On a Serrin type overdetermined problem* | Milan J. Math. **92**(2) (2024), 579–590 | MR |
| 51 | John Andersson and Georg S. Weiss | *A parabolic free boundary problem with Bernoulli type condition on the free boundary* | J. Reine Angew. Math. **627** (2009), 213–235 | Zbl 1171.35128 |
| 52 | Maria Andrade, Allan Freitas and Diego A. Marín | *Rigidity results for Serrin's overdetermined problems in Riemannian manifolds* | Calc. Var. Partial Differ. Equ. **64**(4), Paper No. 119 (2025), 20 pagg. | Zbl 1566.35255 |
| 53 | Alberto Enciso, Antonio J. Fernández, David Ruiz and Pieralberto Sicbaldi | *A Schiffer-type problem for annuli with applications to stationary planar Euler flows* | Duke Math. J. **174**(6) (2025), 1151–1208 | MR |
| 54 | Paolo Caldiroli, Alessandro Iacopetti and Filomena Pacella | *A shape optimization problem in cylinders and related overdetermined problems* | J. Funct. Anal. **289**(12), Article ID 111157 (2025), 69 pagg. | Zbl 08092607 |
| 55 | Lian, Yuanyuan and Wu, Jing | *Modica type estimates and curvature results for overdetermined p-Laplace problems* | Discrete Contin. Dyn. Syst. **49** (2026), 22–38 | Zbl 08160257 |