

# Lista de lucrări științifice

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## I. Teza de doctorat

- 1) Methods in the Study of Nonlinear Elliptic Problems, Universitatea din Craiova, 2012, Conducător științific Prof. univ. dr. Vicențiu Rădulescu.

## II. Articole științifice

1. Maria Fărcășeanu, Mihai Mihăilescu and **Denisa Stancu-Dumitru**, On a family of torsional creep problems in Finsler metrics, *Canadian Journal of Mathematics*, 18 pages, published online: 02 September 2020, DOI: 10.4153/S0008414X20000681, <https://www.cambridge.org/core/journals/canadian-journal-of-mathematics/article/abs/on-a-family-of-torsional-creep-problems-in-finsler-metrics/ECFCE6955E427DD3EF91E1886DA41D38>
2. Mihai Mihăilescu and **Denisa Stancu-Dumitru**, Torsional creep problems involving Grushin-type operators, *Applied Mathematics Letters* **121** (2021), no. 107423, doi: 10.1016/j.aml.2021.107423 <https://www.sciencedirect.com/science/article/abs/pii/S0893965921002275>
3. Andrei Grecu and **Denisa Stancu-Dumitru**, The asymptotic behavior of solutions to a class of inhomogeneous problems: an Orlicz-Sobolev space approach, *Electronic Journal of Qualitative Theory of Differential Equations* **38** (2021), 1-20.
4. Maria Farcaseanu, Andrei Grecu, Mihai Mihăilescu and **Denisa Stancu-Dumitru**, Perturbed eigenvalue problems: an overview, *Studia Univ. Babeș-Bolyai Math.* **66** (2021), 55-73.
5. **Denisa Stancu-Dumitru**, [Anisotropic torsional creep problems involving rapidly growing differential operators](#), *Nonlinear Analysis: Real World Applications* **51** (2020), Article Number: UNSP 103003, WOS: 000488994500025.
6. Mihai Mihăilescu, Julio D. Rossi and **Denisa Stancu-Dumitru**, A limiting problem for a family of eigenvalue problems involving p-Laplacians, *Revista Matematica Complutense* **32** (3) (2019), 631-653. <https://link.springer.com/article/10.1007/s13163-018-00291-x>
7. Mihai Mihăilescu and **Denisa Stancu-Dumitru**, On the spectrum of a nontypical eigenvalue problem, *Electronic Journal of Qualitative Theory of Differential Equations* **87** (2018), 1-10.
8. Mihai Mihăilescu, **Denisa Stancu-Dumitru** and Csaba Varga, The convergence of nonnegative solutions for the family of problems  $-\Delta_p u = \lambda e^u$  as  $p \rightarrow \infty$ , *ESAIM: Control, Optimisation and Calculus of Variations* **24** (2) (2018), 569-578.
9. **Denisa Stancu-Dumitru**, The asymptotic behavior of a class of  $\phi$ -harmonic functions in Orlicz-Sobolev spaces, *Journal of Mathematical Analysis and Applications* **463** (1) (2018), 365-376.

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10. Maria Fărcășeanu, Mihai Mihăilescu and **Denisa Stancu-Dumitru**, On the convergence of the sequence of solutions for a family of eigenvalue problems, *Mathematical Methods in the Applied Sciences* **40** (2017), 6919-6926.
11. Maria Fărcășeanu, Mihai Mihăilescu and **Denisa Stancu-Dumitru**, Perturbed fractional eigenvalue problems, *Discrete and Continuous Dynamical Systems–A* **37**(12) (2017), 6243-6255.
12. Mihai Mihăilescu and **Denisa Stancu-Dumitru**, A perturbed eigenvalue problem on general domains, *Annals of Functional Analysis* **7** (4) (2016), 529-542.
13. Maria Fărcășeanu and **Denisa Stancu-Dumitru**, Existence of solutions for a quasilinear elliptic equation involving a nonlocal term, *Electronic Journal of Differential Equations*, Vol. **2015** (2015), No. 293, pp. 1-8.
14. Mihai Mihăilescu, **Denisa Stancu-Dumitru** and Csaba Varga, On the spectrum of a Baouendi-Grushin type operator: an Orlicz-Sobolev space setting approach, *Nonlinear Differential Equations and Applications* **22** (5) (2015), 1067-1087. <http://link.springer.com/article/10.1007/s00030-015-0314-5>
15. **Denisa Stancu-Dumitru**, Multiplicity of solutions for an anisotropic problem in Orlicz-Sobolev spaces, *Journal of Nonlinear and Convex Analysis* **16** (5) (2015), 815-834.
16. Liviu I. Ignat, Tatiana I. Ignat and **Denisa Stancu-Dumitru**, A compactness tool for the analysis of nonlocal evolution equations, *SIAM Journal on Mathematical Analysis* **47** (2015), 1330–1354. <http://epubs.siam.org/doi/10.1137/130921349>
17. Maria Fărcășeanu, Mihai Mihăilescu and **Denisa Stancu-Dumitru**, On the set of eigenvalues of some PDEs with homogeneous Neumann boundary condition, *Nonlinear Analysis: Theory Methods and Applications* **116** (2015), 19-25. <http://www.sciencedirect.com/science/article/pii/S0362546X14004234>
18. Marian Bocea, Mihai Mihăilescu and **Denisa Stancu-Dumitru**, The limiting behavior of solutions to inhomogeneous eigenvalue problems in Orlicz-Sobolev spaces, *Advanced Nonlinear Studies* **14** (2014), 977-990. <https://www.degruyter.com/journal/key/ans/14/4/html>
19. **Denisa Stancu-Dumitru**, Variational treatment of nonlinear equations on the Sierpinski gasket, *Complex Variables and Elliptic Equations* **59** (2) (2014), 172-189. <http://dx.doi.org/10.1080/17476933.2012.727407>
20. **Denisa Stancu-Dumitru**, Multiplicity of solutions for a nonlinear degenerate problem in anisotropic variable exponent spaces, *Bulletin of the Malaysian Mathematical Sciences Society* **36** (1) (2013), 117-130. [http://www.emis.de/journals/BMMSS/vol36\\_1\\_11.html](http://www.emis.de/journals/BMMSS/vol36_1_11.html)
21. Mihai Mihăilescu and **Denisa Stancu-Dumitru**, Anisotropic quasilinear elliptic equations with variable exponent, *Journal of the Korean Mathematical Society* **49** (6) (2012), 1123-1138. <http://dx.doi.org/10.4134/JKMS.2012.49.6.1123>
22. **Denisa Stancu-Dumitru**, Two nontrivial solutions for a class of anisotropic variable exponent problems, *Taiwanese Journal of Mathematics* **16** (4) (2012), 1205-1219. <https://projecteuclid.org/journals/taiwanese-journal-of-mathematics/volume-16/issue-4/TWO-NONTRIVIAL-SOLUTIONS-FOR-A-CLASS-OF-ANISOTROPIC-VARIABLE-EXPONENT/10.11650/twjim/1500406732.full>
23. **Denisa Stancu-Dumitru**, Two nontrivial weak solutions for the Dirichlet problem on the Sierpinski Gasket, *Bulletin of the Australian Mathematical Society* **85** (3) (2012), 395-414. <http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=8559750>
24. Mihai Mihăilescu, Vicențiu Rădulescu and **Denisa Stancu-Dumitru**, A Caffarelli- Kohn-Nirenberg type inequality with variable exponent and applications to PDE's, *Complex Variables and Elliptic Equations*, Special Issue: Sobolev Spaces with Variable Exponent and

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- Related Elliptic Problems: Theory and Applications **56** (7-9) (2011), 659-669.  
<http://dx.doi.org/10.1080/17476933.2010.487212>
25. Mihai Mihăilescu, Gheorghe Moroşanu and **Denisa Stancu-Dumitru**, Equations involving a variable exponent Grushin-type operator, *Nonlinearity* **24** (10) (2011), 2663-2680.  
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  26. Mihai Mihăilescu and **Denisa Stancu-Dumitru**, On a degenerate and singular elliptic equation with critical exponent and non-standard growth conditions, *Studia Universitatis Babeş-Bolyai, Mathematica*, Volume LV, Number 4, December 2010, 91-98. (BDI)  
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  27. **Denisa Stancu-Dumitru**, Multiplicity of solutions for anisotropic quasilinear elliptic equations with variable exponent, *Bulletin of the Belgium Mathematical Society- Simon Stevin* **17** (2010), 875-889. <http://projecteuclid.org/euclid.bbms/1292334062>
  28. Mihai Mihăilescu and **Denisa Stancu-Dumitru**, On an eigenvalue problem involving the  $p(x)$ -Laplace operator plus a non-local term, *Differential Equations & Applications (DEA)* **1** (2009), 367-378. (BDI) [http://dea.ele-math.com/01-20/On-an-eigenvalue-problem-involving-the-p\(x\)-Laplace-operator-plus-a-non-local-term](http://dea.ele-math.com/01-20/On-an-eigenvalue-problem-involving-the-p(x)-Laplace-operator-plus-a-non-local-term)

### III. Article in Proceedings

1. Maria Fărcaşeanu, Mihai Mihăilescu and **Denisa Stancu-Dumitru**, A maximum principle for a class of first order differential operators, *New Trends in Differential Equations, Control Theory and Optimisation*, pag. 93-103, World Sci. Publ., Hackensack, NJ, 2016.
2. Mihai Mihăilescu, Gheorghe Moroşanu and **Denisa Stancu-Dumitru**, An Existence Result for a PDE Involving a Grushin-type Operator and Variable Exponents, NUMERICAL ANALYSIS AND APPLIED MATHEMATICS ICNAAM 2011: International Conference on Numerical Analysis and Applied Mathematics, AIP Conference Proceedings 1389, Vol. A, pp. 889-892 (ISI Proceeding). <http://www.kriso.ee/numerical-analysis-applied-mathematics-icnaam-2011-db-9780735409569.html>
3. **Denisa Stancu-Dumitru**, An eigenvalue problem for anisotropic quasilinear elliptic equations with variable exponents, Proceeding of International Student Conference on Pure and Applied Mathematics (ISCOPAM), Editura Universitatii "Alexandru Ioan Cuza" Iasi, 2011, pp. 221-235. <http://www.math.uaic.ro/~ghiba/lucrari/ISCOPAM-Carja-Ghiba.pdf>

Data: 27 Septembrie 2021

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