

Пълен списък на научните публикации
на гл. ас. д-р МиленаГанчева Димова,
ИМИ-БАН

I. Публикации в международни списания

1. **M. Dimova**, S. Dimova, D. Vasileva, *Numerical investigation of a new class of waves in an open nonlinear heat-conducting medium*, **Central European Journal of Mathematics**, v. 11(8) 2013, pp. 1375-1391, **IF(2012): 0.405**
2. N. Kutev, N. Kolkovska, **M. Dimova**, *Global existence of Cauchy problem for Boussinesq paradigm equation*, **Computers and Mathematics with Applications**, v. 65 (2013), pp. 500–511, **IF(2012): 2.069**
3. N. Kolkovska, **M. Dimova**, *A new conservative finite difference scheme for Boussinesq paradigm equation*. **Central European Journal of Mathematics**, v.10(3) (2012), pp. 1159-1171, **IF(2012): 0.405**
4. **M. G. Dimova**, M.S. Kaschiev, S.I. Vinitsky, *Kantorovich method for high accuracy calculations of a hydrogen atom in a strong magnetic field: low-lying excited states*, **J. Phys. B: At. Mol. Phys.**, v. 38(14) (2005), pp. 2337-2352, **IF(2005): 1.913**
5. S.N. Dimova, M.S. Kaschiev, **M.G. Koleva**, D.P. Vasileva, *Numerical analysis of radially nonsymmetric blow-up solutions of a nonlinear parabolic problem*, **Journal of Comput. & Appl. Math.** v. 97 (1998), pp. 81-97, **IF(1998): 0.433**
6. S.N. Dimova, M.S. Kaschiev, **M.G. Koleva**, D.P. Vasileva, *Numerical analysis of the blowup regimes of combustion of a two-component nonlinear heat-conducting medium*, **Zh. Vychisl. Matem. Mat. Fiziki**, v. 35 (1995), pp. 380-399 (in Russian); **Comput. Math. Math. Phys.**, v. 35(3) (1995), pp. 303-319, (English translation), **IF(1995): 0.015**
7. S.N. Dimova, M.S. Kaschiev, **M.G. Koleva**, D.P. Vasileva, *Numerical analysis of radially nonsymmetric structures in nonlinear heat transfer medium*. **Dokl. Acad. Nauk.**, v. 338(4) (1994), pp. 461- 464 (in Russian), **Phys. Dokl.**, v. 39(10) (1994), pp. 673-676 (English translation), **IF(1994): 0.227**
8. S.N. Dimova, M.S. Kaschiev, **M.G. Koleva**, *Investigation of eigenfunctions for combustion of nonlinear medium in polar coordinates with finite elements method*, **Matematicheskoe Modelirovanie**, v. 4(3) (1992), pp. 76-83 (in Russian)

II. Публикации в реферирани международни поредици

9. **M. Dimova**, D. Vasileva, *Comparison of two numerical approaches to Boussinesq paradigm equation*, Proc. 5th International Conference on Numerical Methods and Applications, Lozenetz, Bulgaria, 2012, **Lecture Notes in Computer Science**, (2013), **SJR(2011): 0.331** (accepted)
10. S. Dimova, **M. Dimova**, D. Vasileva, *Structures and waves in a nonlinear heat-conducting medium*, invited chapter in: O.P. Iliev et al. (Eds.), Numerical Solution of Partial Differential Equations: Theory, Algorithms, and Their Applications, **Springer Proceedings in Mathematics & Statistics**, v. 45 (2013), pp. 157-184
11. **M. Dimova**, N. Kolkovska, *Comparison of some finite difference schemes for Boussinesq paradigm equation*, Proc. Int. Conf. on Math. Modeling and Comput. Science, Stará Lesná, Slovakia, 2011, (Eds. G. Adam, J. Buša and M. Hnatič), **Lecture Notes in Computer Science**, v. 7125 (2012), pp. 215-220, **SJR(2011): 0.331**
12. N. Kutev, N. Kolkovska, **M. Dimova**, C.I. Christov, *Theoretical and numerical aspects for global existence and blow up for the solutions to Boussinesq paradigm equation*, **AIP Conference Proceedings**, v. 1404 (2011), pp. 68-76, **SJR(2011): 0.142**
13. **M. Dimova**, S. Dimova, *Numerical Investigation of spiral structure solutions of a nonlinear elliptic problem*, Proc. 7th Int. Conf. on Numerical Methods and Applications, Borovets, Bulgaria, 2010 (Eds. I. Dimov, S. Dimova, N. Kolkovska), **Lecture Notes in Computer Science**, v. 6046 (2011), pp. 395-403, **SJR(2011): 0.331**
14. **M.G. Dimova**, M.S. Kaschiev, *High precision method for calculating the energy values of the hydrogen atom in a strong magnetic field*, Proc. Third Conference on Numerical Analysis and Its Applications, Rousse, Bulgaria, 2004, (Eds. Z. Li, L. Vulkov, J. Wásniewski), **Lecture Notes in Computer Science**, v. 3401 (2005), pp. 25-34, **IF(2005): 0.402**
15. S. Radev, M. Kaschiev, **M. Koleva**, L. Tadríst, F. Onofri, *Numerical analysis of the nonlinear instability of one-dimensional compound capillary jet*, Proc. Second Conference on Numerical Analysis and Its Applications, Rousse, Bulgaria, 2000, (Eds. L. Vulkov, J. Wásniewski, P. Yalamov), **Lecture Notes in Computer Science**, Springer Verlag, v. 1988 (2001), pp. 692-701, **IF(2001): 0.415**
16. I.B. Bazhlekov, **M.G. Koleva**, D.P. Vasileva, *Numerical algorithm for simulation of coupled heat-mass transfer and chemical reaction in two-phase steady flow*, Proc. First Int. Workshop on Numerical Analysis and Its Applications, Rousse, Bulgaria, 1996 (Eds. L. Vulkov, J. Wásniewski, P. Yalamov), **Lecture Notes in Computer Science**, Springer, v. 1196, (1997), pp. 38-45, **IF(1998): 0.872**

17. **M. Koleva**, N. Kutev, *Monotony methods and minimal and maximal solutions for nonlinear ordinary differential equations*, Proc. Inter. Conf. Bifurcation and Chaos: Analysis, Algorithms, Applications, 1991 (Eds. R. Seydel, F.W. Schneider, T. Ktopper, H. Troger), **International Series of Numerical Mathematics**, v. 97 (1991), Birkhauser Verlag Basel, pp. 205-209, ISBN 978-3-7643-2593-0

III. Публикации в реферирани трудове на международни конференции

18. St. Radev, **M. Koleva**, M. Kaschiev, L. Tadrist, F. Onofri, *Effect of the velocity discontinuity on the nonlinear instability of a compound capillary jet*, Proc. 9th National Congress on Theoretical and Applied Mechanics, (Eds. Ya. Ivanov, A. Baltov, E. Manoach), Varna, Bulgaria, 2001, **Theoretical and Applied Mechanics**, Sofia, Demetra Ltd., v. 2 (2003), pp. 65-69
19. S. Radev, **M. Koleva**, M. Kaschiev, L. Tadrist, *Initial perturbation effects on the instability of a viscous capillary jet*, Proc. 4th Int. Conf. on Numerical Methods and Applications, NMA'98, Sofia, Bulgaria 1998, (Eds. O. Iliev, M. Kaschiev, S. Margenov, Bl. Sendov, and P. Vassilevski), **Recent Advances in Numerical Methods and Applications**, World Scientific Publ., 1999, pp. 833-841
20. S.N. Dimova, M.S. Kaschiev, **M.G. Koleva**, D.P. Vasileva, *Numerical analysis of nonradially - symmetric structures arising in nonlinear reaction-diffusion processes*, Proc. Int. Conf. On Programming and Mathematical Methods for Solving Physical Problems, Dubna, Russia, 1993 (Eds. Yu. Yu. Lobanov, E.P. Zhidkov), **Programming and Mathematical Techniques in Physics**, World Scientific, 1994, pp. 251-256
21. **M. Koleva**, N. Kutev, *Monotony methods for B.V.P. for nonlinear ordinary differential equations*, Proc. Int. Conf. Num. Meth. Appl., Sofia, Bulgaria, 1988, (Eds. Bl. Sendov, R. Lazarov, I. Dimov), **Numerical Methods and Applications**, Publ. House BAS, 1989, pp. 223-227

IV. Други научни публикации

22. **M. Koleva**, *Numerical analysis of radially-symmetric eigenfunctions of two-component medium*, **Communication of the JINR**, P11-93-368, Dubna, Russia, 1993 (in Russian)
23. **M. Koleva**, *Numerical investigations of eigenfunctions for combustion of nonlinear medium in polar coordinates*, **Proc. of XVII Summer School "Application of Mathematics in Engineering"**, Varna, Bulgaria, 1991, Sofia, 1992, pp. 140-143 (in Russian)

Дисертация:

М.Г. Колева, Числен анализ на многомерни собствени функции на горене на нелинейна топлопроводна среда, Дисертация за получаване на образователната и научна степен “Доктор”, София, 2000

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