

**Списък на публикациите,
представени за участие в конкурса за доцент по
професионално направление Математика
ДВ бр. 100/15.12.2017 г.**

на Емил Минчев

1. "Approximate Solutions of Impulsive Hyperbolic Equations" (with D. Bainov and Z. Kamont), Academic Publishers, Calcutta, 1996. (ISBN 81-86358-37-4)
2. On the single point blow - up of the solutions of the nonlinear Schrödinger equations (with D. Bainov), *Comptes Rendus de l' Academie Bulgare des Sciences*, **47**, no. 12 (1994), 17 - 19; *Rendiconti di Matematica*, Serie VII, **16** (1996), 109 - 115. **импакт фактор: 0,299**
3. Numerical solutions of hyperbolic differential - functional equations with impulses (with D. Bainov and Z. Kamont), *Rendiconti Seminario Facolta Scienze Universita Cagliari*, **64**, no. 2 (1994), 149 - 171.
4. Nonexistence of global solutions of initial - boundary value problem for the nonlinear Klein - Gordon equation (with D. Bainov), *Journal of Mathematical Physics*, **36**, no. 2 (1995), 756 - 762. **импакт фактор: 0,994**
5. Difference methods for impulsive differential - functional equations (with D. Bainov and Z. Kamont), *Applied Numerical Mathematics*, **16** (1995), 401 - 416. **импакт фактор: 1,261**
6. Comparison principles for impulsive hyperbolic equations of first order (with D. Bainov and Z. Kamont), *Journal of Computational and Applied Mathematics*, **60**, no. 3 (1995), 379 - 388. **импакт фактор: 1,566**
7. Difference methods for first order partial differential equations with impulses (with D. Bainov and Z. Kamont), *Proceedings of the Third International Colloquium on Numerical Analysis, August 13 - 17, 1994, Plovdiv, Bulgaria*; VSP International Science Publishers, The Netherlands, 1995, 3 - 14.
8. Difference methods for impulsive partial differential equations (with D. Bainov, Z. Kamont, K. Paczkowska - Przadka), *Proceedings of the Fifth International Colloquium on Differential Equations, August 18 - 23, 1994, Plovdiv, Bulgaria*; VSP International Science Publishers, The Netherlands, 1995, 23 - 38.
9. Monotone iterative method for semilinear elliptic systems of operator - differential equations (with D. Bainov and A. Myshkis), *Israel Journal of Mathematics*, **92** (1995), 285 - 293. **импакт фактор: 0,830**
10. Remark on an impulsive elliptic inequality (with D. Bainov and M. Klaus), *Comptes Rendus de l'Academie Bulgare des Sciences*, **48**, no. 6 (1995), 21 - 24. **импакт фактор: 0,299**

11. The finite difference method for first order impulsive partial differential-functional equations (with D. Bainov and Z. Kamont), *Computing*, **55**, no. 3 (1995), 237 - 253. **импакт фактор: 1,540**
12. Impulsive partial differential equations of first order - (I) Theorems on impulsive differential inequalities (with D. Bainov), *Journal of Henan University, (Nat. Sci.)*, **25**, no. 4 (1995), 9 - 18.
13. Above estimate of the interval of existence of solutions of the nonlinear Schrödinger equation with potential (with D. Bainov and A. Myshkis), *Nonlinear World*, **3** (1996), 537 - 544.
14. Above estimate of the interval of existence of solutions of the nonlinear Kirchhoff equation (with D. Bainov), *Comptes Rendus de l'Academie Bulgare des Sciences*, **48**, no. 5 (1995), 13 - 14; *Computers and Mathematics with Applications*, **31**, no. 2 (1996), 63 - 65. **импакт фактор: 1,784**
15. Forced oscillations of solutions of certain hyperbolic equations of neutral type (with D. Bainov and Cui Baotong), *Journal of Computational and Applied Mathematics*, **72** (1996), 309 - 318. **импакт фактор: 1,566**
16. Impulsive partial differential equations of first order - (II) Stability of solutions and difference methods (with D. Bainov), *Journal of Henan University, (Nat. Sci.)*, **26**, no. 1 (1996), 1 - 13.
17. Blowing up of solutions to nonlinear Schrödinger equations in noncylindrical domains, *Comptes Rendus de l'Academie Bulgare des Sciences*, **50**, no. 4 (1997), 9 - 12; *Proceedings of Dynamic Systems and Applications*, **2** (1996), 61 - 66. **импакт фактор: 0,299**
18. Monotone iterative methods for impulsive hyperbolic equations (with D. Bainov), *Advances in Nonlinear Dynamics*, Gordon and Breach Science Publishers, Editor: S. Sivasundaram, 1997, 209 - 216.
19. Periodic solutions of impulsive hyperbolic equations of first order (with D. Bainov and Z. Kamont), *Italian Journal of Pure and Applied Mathematics*, **1** (1997), 115 - 127. **импакт фактор: 0,282**
20. Upper estimate of the interval of existence of solutions of the nonlinear Timoshenko equation (with D. Bainov), *Georgian Mathematical Journal*, **4**, no. 3 (1997), 219 - 222. **импакт фактор: 0,461**
21. Periodic boundary value problems for impulsive hyperbolic systems (with D. Bainov and A. Myshkis), *Communications in Applied Analysis*, **1**, no. 1 (1997), 1 - 14. **импакт фактор: 0,500**
22. Monotone iterative method for semilinear parabolic systems of operator-differential equations (with D. Bainov and A. Myshkis), *Communications on Applied Nonlinear Analysis*, **4**, no. 1 (1997), 21 - 30. **импакт фактор: 0,257**

23. Asymptotic behaviour of solutions of impulsive semilinear parabolic equations (with D. Bainov and K. Nakagawa), *Nonlinear Analysis, Theory, Methods and Applications*, **30**, no. 5 (1997), 2725 - 2734. **импакт фактор: 1,318**
24. Present state of the qualitative theory of the impulsive partial differential equations (with I. E. Okoroafor), *Communications in Applied Analysis*, **1**, no. 3 (1997), 351 - 369. **импакт фактор: 0,500**
25. Present state of the stability theory for impulsive differential equations, (with D. Bainov and I. Stamova), *Communications in Applied Analysis*, **2**, no. 2 (1998), 197 - 226. **импакт фактор: 0,500**
26. Finite time singularities of solutions of initial - boundary value problem for the Davey - Stewartson system (with D. Bainov and A. Rauh), *Communications in Applied Analysis*, **2**, no. 3 (1998), 421 - 430. **импакт фактор: 0,500**
27. Forced oscillations of solutions of parabolic equations of neutral type with maxima (with D. Bainov), *Proceedings of the Eighth International Colloquium on Differential Equations, August 18 - 23, 1997, Plovdiv, Bulgaria*; VSP International Science Publishers, The Netherlands, 1998, 43 - 49.
28. Forced oscillations of solutions of impulsive nonlinear parabolic differential - difference equations (with D. Bainov), *Journal of the Korean Mathematical Society*, **35**, no. 4 (1998), 881 - 890. **импакт фактор: 0,498**
29. Finite time singularities of solutions of a class of nonlinear Schrödinger equations (with A. Karabis and A. Rauh), *International Journal of Theoretical Physics*, **37**, no. 5 (1998), 1593 - 1606. **импакт фактор: 0,916**
30. Oscillation of solutions of impulsive nonlinear hyperbolic differential - difference equations, *Mathematica Balkanica*, **12**, no. 1 - 2 (1998), 215 - 224
31. Oscillation of solutions of nonlinear parabolic equations in noncylindrical domains (with D. Bainov), *Nonlinear Phenomena in Complex Systems*, **2**, no. 3 (1999), 14 - 18. **импакт фактор: 0,481**
32. Forced oscillations of solutions of hyperbolic equations of neutral type with maxima (with D. Bainov), *Applicable Analysis*, **70**, no. 3 - 4 (1999), 259 - 267. **импакт фактор: 0,855**
33. On the stability of solutions of impulsive nonlinear parabolic equations (with D. Bainov), *Mathematical Modelling and Numerical Analysis*, **33**, no. 2 (1999), 351 - 357. **импакт фактор: 1,266**
34. Monotone iterative technique for a system of nonlinear parabolic differential - functional equations (with D. Bainov), *PanAmerican Mathematical Journal*, **9**, no. 3 (1999), 31 - 39. **импакт фактор: 0,231**
35. Oscillation of solutions of nonlinear parabolic differential - difference equations in noncylindrical domains (with D. Bainov and Q. Kong), *Indian Journal of Pure and Applied Mathematics*, **30**, no. 11 (1999), 1173 - 1180. **импакт фактор: 0,284**

36. Forced oscillations of solutions of impulsive nonlinear hyperbolic differential - difference equations (with D. Bainov), *Note di Matematica*, **19**, no. 2 (1999), 173 – 181. **импакт фактор: 0,362**
37. Finite time singularities of solutions of Davey - Stewartson systems in noncylindrical domains (with D. Bainov), *PanAmerican Mathematical Journal*, **9**, no. 2 (1999), 13 - 23. **импакт фактор: 0,231**
38. Stability properties of solutions of impulsive parabolic differential - functional equations (with D. Bainov and M. Kirane), *Applicable Analysis*, **79**, nos. 1 - 2 (2001), 63 – 72. **импакт фактор: 0,855**
39. On the solvability of the nonlinear Schrödinger equation in noncylindrical domain (with D. Bainov), *Communications in Applied Analysis*, **6**, no. 1 (2002), 127 - 133. **импакт фактор: 0,500**
40. Asymptotic behaviour and global existence of solutions for some classes of nonlinear parabolic equations, *Southeast Asian Bulletin of Mathematics*, **25**, no. 4 (2002), 681 - 704.
41. Asymptotic behaviour and oscillations of solutions of nonlinear parabolic differential - functional equations (with N. Yoshida), *Korean Journal for Computational and Applied Mathematics*, **9**, no. 2 (2002), 465- 473.
42. Ordinary differential systems describing hysteresis effects and numerical simulations (with N. Kenmochi and T. Okazaki), *Abstract and Applied Analysis*, **7** (2002), no. 11, 563 - 584. **импакт фактор: 0,602**
43. Blowing - up of solutions of a class of Davey - Stewartson systems, *Mathematics Journal of Toyama University*, **25** (2002), 1 - 11.
44. Monotone iterative technique for first order functional partial differential equations, *Advanced Studies in Contemporary Mathematics*, **6** (2003), no. 1, 35 - 46. **импакт фактор: 0,747**
45. Method of upper and lower solutions and monotone iterative technique for hyperbolic delay - differential equations (with D. Bainov), *Communications in Applied Analysis*, **7**, no. 1 (2003), 79 - 86. **импакт фактор: 0,500**
46. Nonexistence of global solutions for a system of coupled Schrödinger and Kirchhoff equations, *Communications in Applied Analysis*, **7**, no. 1 (2003), 127 - 132. **импакт фактор: 0,500**
47. Oscillations of solutions of nonlinear parabolic equations via comparison method (with N. Yoshida), *Applied Mathematics and Computation*, **134** (2003), no. 2 - 3, 561 - 566. **импакт фактор: 1,874**
48. On the oscillation of solutions of nonlinear parabolic equations, *Applied Mathematics and Computation*, **136** (2003), no. 2 - 3, 453 - 462. **импакт фактор: 1,874**

49. Oscillations of solutions of vector differential equations of parabolic type with functional arguments (with N. Yoshida), *Journal of Computational and Applied Mathematics*, **151** (2003), no. 1, 107 - 117. **импакт фактор: 1,566**
50. Forced oscillations of solutions of a class of higher order nonlinear parabolic equations (with N. Yoshida), *Advanced Studies in Contemporary Mathematics*, **6** (2003), no. 2, 165 - 171. **импакт фактор: 0,747**
51. Oscillations of vector differential equations of hyperbolic type with functional arguments (with N. Yoshida), *Mathematics Journal of Toyama University*, **26** (2003), 75 - 84.
52. On a system of nonlinear PDE's for phase transitions with vector order parameter, *Advances in Mathematical Sciences and Applications*, **14** (2004), no. 1, 187 - 209.
53. Forced oscillations of solutions of systems of hyperbolic equations of neutral type, *Applied Mathematics and Computation*, **155** (2004), no. 2, 427 - 438. **импакт фактор: 1,874**
54. Phase transition models with hysteresis effect and vector order parameter, *Mathematical Sciences and Applications*, GAKUTO International Series, **20** (2004), 175 - 188.
55. A diffusion-convection prey-predator model with hysteresis, *Mathematics Journal of Toyama University*, **27** (2004), 51 - 69.
56. On a system of nonlinear PDE's with diffusion and hysteresis effect (with N. Kenmochi and T. Okazaki), *Advances in Mathematical Sciences and Applications*, **14** (2004), no. 2, 633 - 664.
57. On a system of nonlinear PDE's for phase transitions with vector order parameter and convective effect, *Journal of Computational and Applied Mathematics*, **177** (2005), 309 - 330. **импакт фактор: 1,566**
58. Modelling of hysteresis in population dynamics, *Mathematical Sciences and Applications*, GAKUTO International Series, **23** (2006), 179-187.
59. Existence and uniqueness of solutions of a system of nonlinear PDE's for phase transitions with vector order parameter, *Discrete and Continuous Dynamical Systems*, Supplement, Volume **2005** (2005), 652-661. **импакт фактор: 1,151**
60. A prey - predator model with hysteresis effect (with T. Aiki), *SIAM Journal on Mathematical Analysis*, **36** (2005), no. 6, 2020 - 2032. **импакт фактор: 1,684**
61. Mathematical models for phase change problems with hysteresis effect (with T. Aiki and T. Okazaki), *Nonlinear Analysis: Theory, Methods and Applications*, **63** (2005), issues 5-7, 1185-1198. **импакт фактор: 1,318**
62. A system of ODEs with a hysteresis effect, *Nonlinear Analysis: Theory, Methods and Applications*, **67** (2007), no. 9, 2744-2751. **импакт фактор: 1,318**
63. On a model for phase transitions with vector hysteresis effect, *Rocky Mountain Journal of Mathematics*, **38** (2008), no. 2, 545-566. **импакт фактор: 0,332**

64. A phase transition model with higher order relaxation terms (with R. Agarwal), *International Journal of Evolution Equations*, **3** (2009), no. 4, 435-446.

65. L^∞ -Energy method for a parabolic system with convection and hysteresis effect (with Mitsuharu Otani), *Communications on Pure and Applied Analysis*, to appear.

Сумарен импакт фактор: 38,888.

(Данните за импакт факторите на списанията са взети от базата данни на Scopus.)

Публикувани учебни материали:

1. Методическо ръководство за решаване на задачи по линейна алгебра и аналитична геометрия (съавтор: Друми Байнов), издателство Импулс-М, 1997.

2. Сборник в помощ на преподаватели и ученици в школи по физика, (съавтори: Руска Драгнева и Велизар Тепавичаров), изд. на печатна база към МКНП, 1988.

Подпис:



Емил Минчев