LIST OF PUBLICATIONS

A. Books (inverse chronological order)

1. A. Favini, G. Marinoschi, *Degenerate Nonlinear Diffusion Equations*, Lecture Notes in Mathematics 2049, Springer, Berlin, New Yook, 2012. (143 pages, ISBN 978-3-642-28284-3) DOI 10.1007/978-3-642-28285-0
2. G. Marinoschi, *Functional approach to nonlinear models of water flow in soils*, Mathematical Modelling Series: Theory and Applications, volume 21, Springer, 2006. (315 pages, ISBN-10: 1-4020-4879-3)
3. G. Marinoschi, *Analysis and Control of Basic Problems in the Theory of Water Infiltration in Soils*, Hubei Science and Technology Press, Wuhan, 2004. (233 pages, ISBN: 7-5352-3210-8)
4. G. Marinoschi, *Mathematical treatment of infiltration and dispersion problems*, Center of Optimal Control and Discrete Mathematics, Central China Normal University, Wuhan, 2003. (Lecture notes, 147 pages)

B. Articles or chapters in peer-reviewed collective volumes (chronological order)

(Thomson Reuters Web of Science journals marked by *)

1. S. Ion, G. Marinoschi, D. Marinescu, *Analytical and numerical approach to Richards' equation*. In: **Current topics in Continuum Mechanics** (Ed. L. Dragos**)**, 103-140, Romanian Academy Publishing House, Bucharest, 2002. ISBN: 973-27-0919-7
2. G. Marinoschi, *Analytical method for solving an advection - diffusion problem in a n - layered medium.* In: **Mathematical Modelling of Environmental Problems** (Eds. G. Marinoschi, S. Ion)**,** 57-82, Romanian Academy Publishing House, 2002. ISBN: 973-27-0934-0
3. G. Marinoschi, A. Morega, *A study of the evolution of moisture discontinuity in a stratified porous medium*, In: **Mathematical Modelling of Environmental and Life Sciences Problems** (Eds. S. Ion, G. Marinoschi, C. Popa), Romanian Academy Publishing House, pp. 69-80, 2004. ISBN: 973-27-1113-2
4. G. Marinoschi, *On a nonlinear boundary value problem related to infiltration in unsaturated media*, In: **New Trends in Continuum Mechanics** (Ed. M. Suliciu, Proceedings of the International Conference 8-12 September, 2003, Constanta), Theta Publishing, 175-184, 2005.
5. G. Marinoschi, *Well-posedness for a non-autonomous model of fast diffusion*, In: **Applied Analysis and Differential Equations** (Eds. Ovidiu Carja, Ioan I. Vrabie), 199- 216, World Sci. Publ., Hackensack, NJ, 2007. ISBN 978-981-270-594-5
6. G. Marinoschi**,** *Mathematical models of diffusion in nonhomogeneous porous media*, In: **Topics in Applied mathematics and Mathematical Physics** (Eds. Cecil Pompiliu Grünfeld, Stelian Ion, G. Marinoschi), 243-277, Romanian Academy Publishing House, Bucharest, 2008. ISBN: 978-973-27-1719-6
7. G. Marinoschi, *Nonlinear diffusion equations with discontinuous coefficients in porous media*, In: **Progress in Nonlinear Analysis Research** (Ed. Erik T. Hoffmann), 209-242, Nova Science Publishers, New York, 2008. Hard-copy ISBN: 978-1-60456-359-7; 2009 On-line ISBN**:** 978-1-60741-399-8
8. G. Marinoschi, *Identification of a singular coefficient in a parabolic degenerate equation with transport*, In: **Alexandru Myller Mathematical Seminar Centennial Conference**, Iasi (Romania), 21-26 June 2010 (Eds. V. Barbu, O. Carja), AIP Conference Proceedings***** volume 1329, 191-205, 2011. ISBN**:** 978-0-7354-0884-5 DOI: 10.1063/1.3559170
9. A. Favini, A. Lorenzi, G. Marinoschi, H. Tanabe, *Perturbation methods and identifcation problems for degenerate evolution systems*, In: **Advances in Mathematics**, **Invited Contributions at the**

Seventh Congress of Romanian Mathematicians, Brasov, 2011 (Eds. L. Beznea, V. Brinzanescu, M. Iosifescu, G. Marinoschi, R. Purice, D. Timotin), Publishing House of the Romanian Academy, 145-156, 2013. ISBN:978-973-27-2316-6

10. G. Fragnelli, G. Marinoschi, R.M. Mininni, S. Romanelli, *A control approach for an identification problem associated to a strongly degenerate parabolic system with interior degeneracy*, In: **New Prospects in Direct, Inverse and Control Problems for Evolution Equations**, (Eds. A. Favini et al.), Springer INdAM Series, vol. 10, 121-139, 2014. ISBN 978-3-319-11405-7
11. G. Marinoschi, *A note on the feedback stabilization of a Cahn-Hilliard type system with a singular logarithmic potential*, In: **Solvability, Regularity, Optimal Control of Boundary Value Problems for PDEs** (Eds. A. Favini, P. Colli, E. Rocca, G. Schimperna, J. Sprekels), Springer, in press.

C. Volume editor

1. G. Marinoschi, S. Ion, *Proceedings of the First Workshop on Mathematical Modelling of Environmental Problems*, Romanian Academy Publishing House, 2002. (160 pages, ISBN: 973-27-0934-0).
2. S. Ion, G. Marinoschi, C. Popa**,** *Mathematical Modelling of Environmental and Life Sciences Problems, Proceedings of Workshops June 2003, Bucharest and May 2004, Constanta*, Romanian Academy Publishing House, 2004. (293 pages, ISBN: 973-27-1113-2).
3. S. Ion, G. Marinoschi, C. Popa**,** *Mathematical Modelling of Environmental and Life Sciences Problems, Proceedings of the Fourth Workshop September 2005, Constanta*, Romanian Academy Publishing House, 2006. (293 pages, ISBN: 973-27-1158-5).
4. S. Ion, G. Marinoschi, C. Popa**,** *Mathematical Modelling of Environmental and Life Sciences Problems, Proceedings of the Fifth Workshop September 2006, Constanta*, Romanian Academy Publishing House, 2008. (224 pages ISBN: 978-973-27-1641-0).
5. C. P. Grünfeld, S. Ion, G. Marinoschi, *Topics in Applied Mathematics and Mathematical Physics*, Romanian Academy Publishing House, 2008. (ISBN: 978-973-27-1719-6).
6. S. Ion, G. Marinoschi, C. Popa**,** *Mathematical Modelling of Environmental and Life Sciences Problems, Proceedings of the 6th Workshop, September 2007 and 7th Workshop, September 2008, Constanta*, Romanian Academy Publishing House, 2010. (281 pages ISBN: 978-973-27-1903-9).
7. L. Beznea, V. Brinzanescu, M. Iosifescu, G. Marinoschi, R. Purice, D. Timotin, *Advances in Mathematics, Invited Contributions at the Seventh Congress of Romanian Mathematicians, Brasov, 2011*, Publishing House of the Romanian Academy, 2013. ISBN:978-973-27-2316-6
8. S. Aniţa, N. Hritonenko, G. Marinoschi, A. Swiermiak, *Optimal Control, in Mathematical Modelling of Natural Phenomena*, 9, 4, Cambridge University Press, 2014. (ISSN: 0973-5348).

D. Articles in peer-reviewed publications (chronological order)

(Thomson Web of Science journals marked by *)

1. G. Marinoschi, *Minimax principle for an electrically conducting fluid flow along a channel*, **Studii si Cercetari Matematice**, 34, 2, 147-157, 1982.
2. G. Marinoschi, *Contribution to the study of a conducting fluid flow in a MGH generator*, **Studii si Cercetari Matematice**, 34, 6, 536-547, 1982.
3. G. Marinoschi, *The influence of an isolated low obstacle upon an airstream*, **Meteorology and Hydrology**, 21, 1, 15-19, 1991.
4. G. Marinoschi, *On the propagation of small perturbations into a mixture of fluids*, **Meteorology and Hydrology**, 21, 2, 25-29, 1991.
5. G. Marinoschi, A. Georgescu, *Models of asymptotic approximation governing the atmospheric motion over a low obstacle*, **Studii si Cercetari Matematice**, 44, 3, 237-252, 1992.
6. G. Marinoschi, *Uniqueness and existence theorems concerning the propagation of small perturbations in an electrically conducting plasma*, **Rev. Roumaine Math. Pures Appl.** 37, 7, 625-636, 1992.
7. G. Marinoschi, *On a problem of eigenvalues and eigenvectors concerning the small wave propagation in a conducting plasma*, **Rev. Roumaine Phys.** 37, 5, 481-486, 1992.
8. G. Marinoschi, *Solution for the two-dimensional pollutant dispersion produced by an accident in a river*, **Rev. Roumaine Sci. Tech. - Méc. Appl.** 38, 6, 637-641, 1993.
9. G. Marinoschi, *A perturbation method for the solution of convection-diffusion problems with variable velocity*, **Rev. Roumaine Math. Pures Appl.** 39, 2, 147-153, 1994.
10. G. Marinoschi, M. Simota, R. Mic, *Pollution simulations for Danube ,according to mathematical models of dispersion in various hypotheses*, **Proc. XVIIth Conference of the Danube Countries, Band I/Vol. II**, Budapest, 817-822, 1994.
11. G. Marinoschi, *Solution for a radioactive pollutant one-dimensional dispersion in a river*, **Romanian Journal of Hydrology and Water Resources**, 1, 1, 25-28, 1994.
12. G. Marinoschi, M. Simota, R. Mic, *The study of the pollutant transport on the Danube*, **Romanian Journal of Hydrology and Water Resources**, 2, 1-2, 55-59, 1995.
13. G. Marinoschi, U. Jaekel, H. Vereecken, *Some considerations about the effective macrodispersion coefficient*, **Revue Roumaine Sci. Tech. - Mec. Appl.** 40, 4, 503-518, 1995.

14. G. Marinoschi, *An analytical approach of the solutions of nonadiabatic motion in radiative magnetogasdynamics*, **Acta Mechanica***, 114, 1-4, 71-81, 1996.
15. G. Marinoschi, U. Jaekel, H. Vereecken, *Analytical solutions for the convective-dispersion equation with a time-dependent effective dispersion coefficient*, **Z. Angew. Math. Mech.*** 76, S5, 321-322, 1996.
16. G. Marinoschi, I. Ghergut, D. Homentcovschi, U. Jaekel, H. Vereecken, *Large time behaviour of pollutant concentrations instratified porous media*, **Proc. 9th Conference of the European Consortiun for Mathematics in Industry,** Technical University of Denmark, Lingby, 25-29 June 1996, 42-45, 1996.
17. H. Vereecken, U. Jaekel, C. Mouvet, C. Moreau, P. Burauel, M. Dust, D.J. Kim, D. Jacques, J. Feyen, A. Georgescu, N. Suciu, G. Marinoschi, *Critical parameters governing the mobility and fate of pesticides in soil/aquifer systems*, In: **Environmental Fate of Xenobiotics***, Proc. Symposium on Pesticide Chemistry - The Environmental Fate of Xenobiotics, Sep. 30-Oct 02, 1996 Castelnuovo Fogliani, Italy, 627-648, 1996.
18. G. Marinoschi, *Equations of non-adiabatic motion in radiative magnetogasdynamics: Uniqueness and existence*, **Rev. Roumaine Math. Pures Appl.** 41, 9-10, 663-673, 1996.
19. G. Marinoschi, I. Ghergut, D. Homentcovschi, U. Jaekel, H. Vereecken, *Determination of the macrodispersive parameters of a motion in a two-layer porous medium*, **Acta Mechanica***, 129, 1-2, 117-126, 1998.
20. D. Homentcovschi, I. Ghergut, G. Marinoschi, H. Vereecken, U. Jaekel, *Asymptotic solutions for two-site non-equilibrium transport*, **Acta Mechanica***, 129, 1-2, 127-132, 1998.
21. G. Marinoschi, *Determination of the parameters of the asymptotic diffusive transport in a n-layer stratified medium*, **Rev. Roumaine Math. Pures Appl**. 44, 1-2, 97-108, 1999.
22. G. Marinoschi, U. Jaekel, H. Vereecken, *Analytical Solutions of Three-Dimensional Convection-Dispersion Model with Time Dependent Coefficients*, **Z. Angew. Math. Mech.*** 79, 6, 411- 422, 1999.
23. G. Marinoschi, *Study of the diffusive transport in a nonhomogeneous medium*, **Studii si Cercetari Matematice**, 51, 1, 87-98, 1999.
24. G. Marinoschi, *On some mathematical aspects of dispersion in fluids*, **Rev. Roumaine Sci. Tech. - Méc. Appl.** 44, 4, 385-394, 1999.
25. G. Marinoschi, *On the solution of a Neumann problem for a system of parabolic PDEs*, **Proc.**

Romanian Academy*, Series A, 2, 71-74, 2000.

26. G. Marinoschi, *On the rate of propagation of disturbances in a diffusion process*, **Rev. Roumaine Math. Pures Appl**. 46, 2-3, 297-304, 2001.
27. G. Marinoschi, H. Vereecken, *Analysis of the time behaviour of a diffusive transport in a stratified medium*, **Transport in Porous Media***, 45, 3, 365-384, 2001.
28. G. Marinoschi, *A note on the sources interaction in a diffusion process*, **Proc. Romanian Academy***, Series A, 2, 1- 2, 11-14, 2001.
29. G. Marinoschi, *On the one-dimensional sorption into a unsaturated nonhomogeneous soil*, **Mathematical Reports***, 54, 4, 379-387, 2002.
30. V. Barbu, G. Marinoschi, *Controlling the volumetric water content discontinuity in a stratified unsaturated soil*. In : **Nonlinear Analysis and Applications:** To V. Lakshmikantham on his 80th birthday (Eds. R.P. Agarwal, D. O'Regan), vol. 1, 241-258, Kluwer Academic Publishers, Dordrecht, 2003 (ISBN: 1-4020-1688-3)
31. G. Marinoschi, *On some problems concerning the nonlinear infiltration in unsaturated media*, **Proc. NPDE 2003**, Alushta, Ukraine, September, 15-21, 2003.
32. G. Marinoschi, *Nonlinear infiltration with a singular diffusion coefficient*, **Differential Integral Equations***, 16, 9, 1093-1110, 2003.
33. G. Marinoschi, A. Morega, *On the boundary value problem of water infiltration into a nonhomogeneous unsaturated soil*, **Proc. GAMM**, March 24-28, 2003, Abano Terme, Italy, **PAMM**, 3, 1, 466-467, 2003. http://www3.interscience.wiley.com/cgi-bin/jtoc/91016652/
34. G. Marinoschi, *A control problem for the infiltration in saturated-unsaturated soils*, **Proc. of 8th International Symposium on Automatic Control and Computer Science**- Workshop on Control Theory (SACCS-WTC), Iasi, 1-9, 2004.
35. V. Barbu, G. Marinoschi, *Existence for a time dependent rainfall infiltration model with a blowing up diffusivity*, **Nonlinear Analysis Real World Appl.*** 5, 2, 231-245, 2004.
36. G. Marinoschi, *A free boundary problem describing the saturated-unsaturated flow in a porous medium*, **Abstr. Appl. Anal.*** 2004:9, 729-755, 2004. DOI: 10.1155/S1085375043111272004
37. C. Cusulin, M. Iannelli, G. Marinoschi, *Age-strucutured diffusion in a multi-layer environment*, **Nonlinear Anal. Real World Appl.*** 6, 1, 207-223, 2005. doi:10.1016/j.nonrwa.2004.08.006
38. G. Marinoschi, *A free boundary problem describing the saturated-unsaturated flow in a porous medium. II. Existence of the free boundary in the 3-D case*, **Abstr. Appl. Anal.*** 2005:8, 813-854,

2005.

39. G. Marinoschi, An identification problem in the theory of water infiltration in soils, **Annals of University of Craiova,** Math. Comp. Sci. Ser., Volume 32, 188-199, 2005. (ISSN: 1223-6934)
40. G. Marinoschi, G. Wang, *Identification of the Rain Rate for a Boundary Value Problem of a Rainfall Infiltration in a Porous Medium***, Numer. Func. Anal. Optim.*** 27, 2, 189-205, 2006. DOI: 10.1080/01630560600570021
41. G. Marinoschi, G. Wang, *Identification of the Rain Rate for a Boundary Value Problem of a Rainfall Infiltration in a Porous Medium*. *II. Determination of the conditions of optimality***, Numer. Func. Anal. Optim.*** 27, 2, 207-236, 2006. DOI: 10.1080/01630560600570039
42. G. Marinoschi, *Mathematical models of nonlinear saturated-unsaturated infiltration in porous media*, **Mathematical Reports***, 8, 3, 287-307, 2006.
43. C. Cusulin, M. Iannelli, G. Marinoschi, *Convergence in a multi-layer population model with age-structure*, **Nonlinear Anal. Real World Appl. ***, 8, 887-902, 2007. doi:10.1016/j.nonrwa.2006.03.012
44. Angelo Favini, G. Marinoschi, *Existence for a degenerate parabolic problem with a nonlinear operator*, **Journal Evol. Equ.*** 7, 743-764, 2007.
45. G. Marinoschi, *The diffusive form of Richards' equation with hysteresis*, **Nonlinear Anal. Real World Appl.*** 9, 518-535, 2008.
46. M. Iannelli, G. Marinoschi, Well-posedness for a hyperbolic-parabolic Cauchy problem arising in population dynamics, **Differential Integral Equations***, 21, 9-10, 917-934, 2008.
47. C. Ciutureanu, G. Marinoschi, *Convergence of the finite difference scheme for a fast diffusion equation in porous media*, **Numer. Func. Anal. Optim.*** 29, 9–10, 1034–1063, 2008.
48. G. Marinoschi, *Periodic solutions to fast diffusion equations with non Lipschitz convective terms*, **Nonlinear Anal. Real World Appl.*** 10, 1048–1067, 2009.
49. G. Marinoschi, *Optimal control of metabolite transport across cell membranes driven by the membrane potential*, **Nonlinear Anal. Real World Appl.*** 10, 3, 1276–1298, 2009.
50. A. Favini, G. Marinoschi, *Periodic behavior for a degenerate fast diffusion equation*, **J. Math. Anal. Appl.***, 351, 509-521, 2009.
51. M. Iannelli, G. Marinoschi, *Harvesting control for an age-structured population in a multi-layered habitat*, **J. Optimiz. Theory Appl**.* 142, 107–124, 2009.

52. C. Fierbinteanu, D. Andronescu, R. Usvat, D. Cretoiu, C. Baicus, G. Marinoschi, *Acoustic radiation force imaging sonoelastography for noninvasive staging of liver fibrosis*, **World Journal of Gastroenterology***, 15, 44, 5525-5532**,** 2009.

53. A. Favini, G. Marinoschi, *Identifcation of the time derivative coefficient in a fast diffusion degenerate equation*, **J. Optimiz. Theory Appl**.* 145, 249–269, 2010.

54. G. Marinoschi, *Well posedness of singular diffusion equations in porous media with homogeneous Neumann boundary conditions*, **Nonlinear Anal.* (Theory, Methods and Applications)** 72, 3491-3514. 2010.

55. G. Marinoschi, *Well posedness of a time-difference scheme for a degenerate fast diffusion problem*, **Discrete Contin. Dyn. Syst. Ser. B***, 13, 2, 435-454, 2010.

56. M. Fabrizio, A. Favini, G. Marinoschi, *An optimal control problem for a singular system of solid-liquid phase transition*, **Numer. Func. Anal. Optim**.*, 31, 9, 989- 1022**,** 2010. DOI: 10.1080/01630563.2010.512691

57. A. Gandolfi, M. Iannelli, G. Marinoschi, *An age-structured model of epidermis growth*, **J. Math. Biology***, 62, 1, 111-141, 2011. DOI: 10.1007/s00285-010-0330-3

58. G. Marinoschi, *A Trotter–Kato type theorem in the weak topology and an application to a singular perturbed problem*, **J. Math. Anal. Appl**.* 386, 1, 50-60, 2012. doi:10.1016/j.jmaa.2011.07.039

59. A. Favini, G. Marinoschi, *Identification for degenerate problems of hyperbolic type*, In "PDE's, Semigroup Theory, Inverse and Control Problems", Eds. A. Favini and A. Lorenzi, **Appl. Anal.***, 91, 8, 1511-1527, 2012. DOI: 10.1080/00036811.2011.630665

60. G. Marinoschi, *Existence to time-dependent nonlinear diffusion equations via convex optimization*, **J. Optimiz. Theory Appl**.*, 154, 3, 792-817, 2012. DOI: 10.1007/s10957-012-0017-6

61. G. Marinoschi, *A variational approach to nonlinear diffusion equations with time periodic coefficients*, **Annals of the University of Bucharest** (mathematical series), 3 (LXI), 173-185, 2012.

62. E.R. Ardeleanu, G. Marinoschi, *An asymptotic solution to a nonlinear reaction-diffusion system with chemotaxis*, **Numer. Func. Anal. Optim**.* 34, 2, 117-148, 2013. DOI:10.1080/01630563.2012.704474

63. G. Marinoschi, *Well-posedness for chemotaxis dynamics with nonlinear cell diffusion*, **J. Math. Anal. Appl**.*, 402, 2, 415-439, 2013. DOI: 10.1016/j.jmaa.2013.01.031

64. M. Iannelli, G. Marinoschi, *Approximation of a population dynamics model by parabolic regularization*, **Math. Methods Appl. Sci**.* 36, 10, 1229–1239, 2013. DOI: 10.1002/mma.2675

65. M. Beldiman, I. Boacă, G. Marinoschi, *Optimization of a singular flow in a porous medium*, **Z. Angew. Math. Mech**.* 93, 9, 633 – 647, 2013. DOI: 10.1002/zamm.201200178

66. A. Gandolfi, M. Iannelli, G. Marinoschi, *Time evolution for a model of epidermis growth*, **J. Evol. Equ.*** 13, Issue 3, 509-533, 2013. DOI 10.1007/s00028-013-0188-0

67. G. Marinoschi, *A control problem for a cross-diffusion system in a nonhomogeneous medium*, **Journal Biol. Dyn.** 7, Suppl. 1, 88–107, 2013. DOI: 10.1080/17513758.2013.836574

68. G. Marinoschi, *Variational solutions to nonlinear diffusion equations with singular diffusivity*, **J. Optimiz. Theory Appl**.*, 161, 2, 430–445, 2014. DOI: 10.1007/s10957-013-0430-5

69. G. Marinoschi, *Control approach to an ill-posed variational inequality*, **Math. Model. Nat. Phenom.*** 9, 4, 153-170, 2014. http://dx.doi.org/10.1051/mmnp/20149410

70. G. Marinoschi, *A duality approach to nonlinear diffusion equations*, **Set-Valued Var. Anal.*** 22, 783–807, 2014. DOI 10.1007/s11228-014-0288-1

71. G. Fragnelli, G. Marinoschi, R.M. Mininni, S. Romanelli, *Identification of a diffusion coefficient in strongly degenerate parabolic equations with interior degeneracy*, **J. Evol. Equ.***, 15, 27-51, 2015 DOI: 10.1007/s00028-014-0247-1 (early version arXiv:1307.6393)

72. V. Barbu, A. Favini, G. Marinoschi, *Nonlinear parabolic flows with dynamic flux on the boundary*, **J. Differential Equations***, 258, 6, 2160–2195, 2015. http://dx.doi.org/10.1016/j.jde.2014.12.003

73. P. Colli, G. Marinoschi, E. Rocca, *Sharp interface control in a Penrose-Fife model*, **ESAIM Control Optim. Calc. Var.** *, 22, 2, 473-499, 2016. DOI:10.1051/cocv/2015014 (early version arXiv:1403.4446)

74. P. Colli, G. Gilardi, G. Marinoschi, *A boundary control problem for a possibly singular phase field system with dynamic boundary conditions*, **J. Math. Anal. Appl**.* 434, 432-463, 2016. http://dx.doi.org/10.1016/j.jmaa.2015.09.011 (early version http://arxiv.org/abs/1501.04517)

75. P. Colli, G. Gilardi, G. Marinoschi, E. Rocca, *Optimal control for a phase field system with a possibly singular potential*, **Math. Control Relat. Fields***, 6, 1, 95-112, 2016.

doi:10.3934/mcrf.2016.6.xx (early version http://arxiv.org/abs/1410.6718v1

76. V. Barbu, G. Marinoschi, *An Optimal Control Approach to the Optical Flow Problem*, **Systems and Control Lett.*** , 87, 1-9, 2016. http://dx.doi.org/10.1016/j.sysconle.2015.10.004

77. G. Marinoschi, A. Martiradonna, *Fish populations dynamics with nonlinear stock-recruitment renewal conditions*, **Appl. Math. Comput**.* 277, 101-110, 2016. http://dx.doi.org/10.1016/j.amc.2015.12.041

78. G. Marinoschi, *On the escape probability of particles from a charged channel*, **Annals of the University of Craiova**-Mathematics and Computer Science Series, 43, 1, 53-61, 2016

79. A. Gandolfi, M. Iannelli, G. Marinoschi, *The steady state of epidermis: mathematical modeling and numerical simulations*, **J. Math. Biology***, 73, 6-7, 1595-1626, 2016
http://link.springer.com/article/10.1007/s00285-016-1006-4

80. T. Barbu, G. Marinoschi, *Image denoising by a nonlinear control technique*, **Internat. J. Control***, 90, 5, 1005-1017, 2017. http://dx.doi.org/10.1080/00207179.2016.1192688

81. S. Ion, G. Marinoschi, *A self-organizing criticality mathematical model for contamination and epidemic spreading*, **Discrete Contin. Dyn. Syst. Ser. B***, 22, 2, 383-405, 2017

82. G. Marinoschi, *A singular nonconvex optimal control problem*, **Pure Appl. Funct. Anal.** 1, 4, 613-628, 2016.

83. V. Barbu, P. Colli, G. Gilardi, G. Marinoschi, *Feedback stabilization of the Cahn-Hilliard type system for phase separation*, **J. Differential Equations***, 262, 2286-2334, 2017
http://dx.doi.org/10.1016/j.jde.2016.10.047 (early version http://arxiv.org/abs/1606.09230)

84. A. Favini, G. Marinoschi, *Identification for general degenerate problems of hyperbolic type*, Bruno Pini Mathematical Analysis Seminar, Vol. 7, 175-188, 2016.

85. G. Marinoschi, R.M. Mininni, S. Romanelli, *An inverse problem for a strongly degenerate N-dimensional parabolic equation with interior degeneracy*, **J. Optimiz. Theory Appl**.* 173, 1, 56-77, 2017. 10.1007/s10957-017-1077-4

86. V. Barbu, P. Colli, G. Gilardi, G. Marinoschi, E. Rocca, *Sliding mode control for a nonlinear phase-field system*, **SIAM J. Control Optim.*** 55, 3, 2108-2133, 2017
https://doi.org/10.1137/15M102424X (early version http://arxiv.org/abs/1506.01665v1)

87. G. Marinoschi, Internal feedback stabilization of a Cahn-Hilliard system with viscosity effects, **Pure Appl. Funct. Anal.** in press.

88. P. Colli, G. Gilardi, G. Marinoschi, E. Rocca, Distributed optimal control problems for phase field systems with singular potential, Annals of the University Ovidius, accepted.

89. P. Colli, G. Gilardi, G. Marinoschi, E. Rocca, Sliding mode control for phase field system related to tumor growth, **Appl. Math.Optimiz**.*, in press. https://arxiv.org/pdf/1706.03564.pdf

90. P. Colli, G. Gilardi, G. Marinoschi, E. Rocca, Optimal control for a conserved phase field system with a possibly singular potential, **Evol. Equ. Control Theory***, in press. https://arxiv.org/abs/1709.02269