

Maurizio Grasselli

Publications

- [1] **M. Grasselli**, *An identification problem for a semilinear hyperbolic equation*, Boll. Un. Mat. Ital. B(7) 2, pp.293-311, 1988.
- [2] **M. Grasselli**, *Local existence and uniqueness for a quasilinear hyperbolic inverse problem*, Appl. Anal. 32, pp.15-30, 1989.
- [3] **M. Grasselli**, *A stability result for a nonlinear hyperbolic inverse problem*, Ricerche Mat. 37, pp.107-117, 1989.
- [4] **M. Grasselli**, *Some inverse problems in the theory of materials with memory*, in Proc. 8th France - U.S.S.R. - Italy joint Symposium on Computational Mathematics and Applications, pp.231-247, Pubbl. IAN-CNR n. 730, Pavia 1989.
- [5] P. Colli and **M. Grasselli**, *Mathematical study of a nonlinear transport-diffusion problem related to muscle contraction*, Differential Integral Equations 5, pp.837-849, 1990.
- [6] **M. Grasselli**, S.I. Kabanikhin, A. Lorenzi, *An inverse hyperbolic integrodifferential problem arising in Geophysics II*, Nonlinear Anal. 15, pp.283-298, 1990.
- [7] **M. Grasselli** and A. Lorenzi, *Abstract nonlinear Volterra integrodifferential equations with nonsmooth kernels*, Rend. Mat. Acc. Lincei IX, Vol. II, pp.43-53, 1991.
- [8] **M. Grasselli**, S.I. Kabanikhin, A. Lorenzi, *An inverse hyperbolic integrodifferential problem arising in Geophysics I*, Siberian Math. J. 33, pp.415-426, 1992.
- [9] **M. Grasselli**, *An identification problem for an abstract linear hyperbolic integrodifferential equation with applications*, J. Math. Anal. Appl. 171, pp.27-60, 1992.
- [10] **M. Grasselli**, *An identification problem for a linear integrodifferential equation occurring in heat flow*, Math. Methods Appl. Sci. 15, pp.167-186, 1992.
- [11] P. Colli, **M. Grasselli**, G. Naldi, *Diffusion effects in the sliding filament model of muscle contraction*, in "Biomedical Modeling and Simulation" (J. Eisenfeld, D.S. Levine, M. Witten, Eds.), pp.311-316, Elsevier Science Publishers B. V. (North-Holland), IMACS 1992.
- [12] **M. Grasselli**, *An inverse problem in three-dimensional thermoviscoelasticity of Boltzmann type*, in "Ill-Posed Problems in Natural Sciences" (A.N. Tikhonov, Ed.), pp.284-299, VSP, Zeist 1992.
- [13] P. Colli and **M. Grasselli**, *An existence result for a hyperbolic phase transition problem with memory*, Appl. Math. Lett. 5, pp.99-102, 1992.

- [14] P. Colli and **M. Grasselli**, *Phase transitions in materials with memory*, in “Progress in partial differential equations: calculus of variations, applications” (C. Bandle, J. Bemelmans, M. Chipot, M. Grüter, J. Saint Jean Paulin, Eds.), pp. 173-186, Pitman Res. Notes Math. Ser. 267, Longman Scientific & Technical, London 1992.
- [15] P. Colli and **M. Grasselli**, *Phase transition problems in materials with memory*, J. Integral Equations Appl. 5, pp.1-22, 1993.
- [16] P. Colli and **M. Grasselli**, *Hyperbolic phase change problems in heat conduction with memory*, Proc. Roy. Soc. Edinburgh 123A, pp. 571-592, 1993.
- [17] P. Colli and **M. Grasselli**, *Parabolic perturbation of a nonlinear hyperbolic problem arising in Physiology*, J. Differential Equations 101, pp.178-212, 1993.
- [18] **M. Grasselli** and A. Lorenzi, *An inverse problem for an abstract nonlinear parabolic integrodifferential equation*, Differential Integral Equations 6, pp.63-81, 1993.
- [19] **M. Grasselli**, *On an inverse problem for a linear hyperbolic integrodifferential equation*, Forum Math. 6, pp.83-110, 1994.
- [20] **M. Grasselli**, *Determining the relaxation tensor in linear viscoelasticity of integral type*, Japan J. Appl. Math. 11, pp.131-153, 1994.
- [20bis] **M. Grasselli**, *Correction to “Determining the relaxation tensor in linear viscoelasticity of integral type,”* Japan J. Appl. Math. 13, pp.185-186, 1996.
- [21] C. Cavaterra and **M. Grasselli**, *Identifying memory kernels in linear thermoviscoelasticity of Boltzmann type*, Math. Models Methods Appl. Sci. 4, pp.807-842, 1994.
- [22] P. Colli and **M. Grasselli**, *Phase change problems in materials with memory*, in Proc. 7th European Conference on Mathematics in Industry, ECMI 93, (A. Fasano, M. Primicerio, Eds.), pp.183-190, B. G. Teubner, Stuttgart 1994.
- [23] P. Colli and **M. Grasselli**, *Nonlinear parabolic problems modelling transition dynamics with memory*, in “Elliptic and parabolic problems, Pont-à-Mousson 1994” (C. Bandle, J. Bemelmans, M. Chipot, J. Saint Jean Paulin, I. Shafrir, Eds.), pp.82-97, Pitman Res. Notes Math. Ser. 325, Longman Scientific & Technical, London 1995.
- [24] C. Cavaterra and **M. Grasselli**, *An inverse problem for the linear viscoelastic Kirchhoff plate*, Quart. Appl. Math. 53, pp.9-33, 1995.
- [25] **M. Grasselli** and C.D. Pagani, *On an inverse problem arising in combustion*, Istit. Lombardo Accad. Sci. Lett. Rend. A 129, pp.39-45, 1995.
- [26] P. Colli and **M. Grasselli**, *Justification of a hyperbolic approach to phase changes in materials with memory*, Asymptot. Anal. 10, pp. 303-334, 1995.
- [27] P. Colli and **M. Grasselli**, *Convergence of parabolic to hyperbolic phase change models with memory*, Adv. Math. Sci. Appl. 6, pp.147-176, 1996.

- [28] **M. Grasselli**, *Identifying relaxation kernels of linearly viscoelastic bodies*, J. Inv. Ill-Posed Problems 4, pp.391-407, 1996.
- [29] P. Colli and **M. Grasselli**, *Nonlinear hyperbolic problems modelling transition dynamics with memory*, in "Nonlinear Analysis and Applications", Proc. Banach Center Minisemester, November-December 1994, (N. Kenmochi, M. Niezgódka, P. Strzelecki, Eds.), pp.79-99, Gakuto Int. Ser. Math. Sci. Appl. 7, Gakkōtoshō, Tokyo 1996.
- [30] **M. Grasselli**, *Determining relaxation kernels arising in homogenization of linear viscoelastic media*, ZAMM 76 Suppl.2, pp.543-544, 1996.
- [31] P. Colli, G. Gilardi, **M. Grasselli**, *Convergence of phase field to phase relaxation models with memory*, Ann. Univ. Ferrara Ser. VII (N.S.), Suppl. Vol. XLI, pp.1-14, 1996.
- [32] **M. Grasselli**, *An inverse problem in population dynamics*, Numer. Funct. Anal. Optim. 18, pp.311-323, 1997.
- [33] C. Cavaterra and **M. Grasselli**, *On an inverse problem for a model of linear viscoelastic Kirchhoff plate*, J. Integral Equations Appl. 9, pp.179-218, 1997.
- [34] P. Colli, G. Gilardi, **M. Grasselli**, *Weak solution to hyperbolic Stefan problems with memory*, NoDEA Nonlinear Differential Equations Appl. 4, pp.123-132, 1997.
- [35] P. Colli, G. Gilardi, **M. Grasselli**, *Global smooth solution to the standard phase-field model with memory*, Adv. Differential Equations 3, pp.453-486, 1997.
- [36] P. Colli, G. Gilardi, **M. Grasselli**, *Well-posedness of the weak formulation for the phase-field model with memory*, Adv. Differential Equations 3, pp.487-508, 1997.
- [37] **M. Grasselli** and M. Yamamoto, *Identifying a spatial body force in linear elastodynamics via traction measurements*, SIAM J. Control Optim. 36, pp.1190-1206, 1998.
- [38] **M. Grasselli** and V. Pata, *Longtime behavior of a homogenized model in viscoelastodynamics*, Discrete Contin. Dyn. Syst. 4, pp.338-359, 1998.
- [39] G. Bonfanti, P. Colli, **M. Grasselli**, F. Luterotti, *Nonsmooth kernels in a phase relaxation model with memory*, Nonlinear Anal. 4, pp.455-465, 1998.
- [40] S. Aizicovici, P. Colli, **M. Grasselli**, *On a class of degenerate nonlinear Volterra equations*, Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur. 132, pp.135-152, 1998.
- [41] P. Colli, **M. Grasselli**, J. Sprekels, *Automatic control via thermostats of a hyperbolic Stefan problem with memory*, Appl. Math. Optim. 39, pp.229-255, 1999.
- [42] P. Colli, G. Gilardi, **M. Grasselli**, *Asymptotic analysis of a phase field model with memory for vanishing time relaxation*, Hiroshima Math. J. 29, pp.117-143, 1999.
- [43] P. Colli, G. Gilardi, **M. Grasselli**, *Asymptotic justification of the phase-field model with memory*, Comm. Appl. Nonlinear Anal. 6, pp.1-27, 1999.
- [43bis] P. Colli, G. Gilardi, **M. Grasselli**, *Errata: Asymptotic justification of the phase-field*

- model with memory*, Comm. Appl. Nonlinear Anal. 7, pp.101-102, 2000.
- [44] **M. Grasselli**, *Asymptotic analysis of a phase-field model with memory*, in “Free Boundary Problems: Theory and Applications” (I. Athanasopoulos, G. Makrakis, J.F. Rodrigues, Eds.), pp.273-286, Chapman & Hall/CRC Res. Notes Math. 409, Boca Raton 1999.
 - [45] **M. Grasselli**, *Determining the relaxation kernel in nonlinear one-dimensional viscoelasticity*, Z. Anal. Anwendungen 18, pp.247-266, 1999.
 - [46] **M. Grasselli**, *Automatic control of the temperature in thermoviscoelasticity*, Math. Methods Appl. Sci. 22, pp.1447-1464, 1999.
 - [47] **M. Grasselli**, S. Perotto, F. Saleri, *Space-time finite elements for Boussinesq equations*, East-West J. Numer. Math. 7, pp.283-306, 1999.
 - [48] S. Aizicovici, P. Colli, **M. Grasselli**, *A Stefan problem with memory and nonlinear boundary condition*, in “Nonlinear Evolution Equations and Applications”, Proc. RIMS Symposium held at the Research Institute for Mathematical Sciences, Kyoto University, October 19-21, 1998, (M. Otani, Ed.), pp.53-61, Sūrikaiseikikenkyūsho Kōkyūroku 1105, Kyoto 1999.
 - [49] C. Giorgi, **M. Grasselli**, V. Pata, *Uniform attractors for a phase-field model with memory and quadratic nonlinearity*, Indiana Univ. Math. J. 48, pp.1395-1445, 1999.
 - [50] P. Colli and **M. Grasselli**, *Degenerate nonlinear Volterra integrodifferential equations*, in “Volterra Equations and Applications” (C. Corduneanu, I.W. Sandberg, Eds.), pp.187-195, Stability Control Theory Methods Appl. 10, Gordon and Breach, Amsterdam 2000.
 - [51] **M. Grasselli**, *On a phase-field model with memory*, in “Free Boundary Problems: Theory and Applications I”, (N. Kenmochi, Ed.), pp.89-102, Gakuto Int. Ser. Math. Sci. Appl. 13, Gakkōtoshō, Tokyo 2000.
 - [52] V. Barbu, P. Colli, G. Gilardi, **M. Grasselli**, *Existence, uniqueness, and longtime behavior for a nonlinear Volterra integrodifferential equation*, Differential Integral Equations 13, pp.1233-1262, 2000.
 - [53] S. Aizicovici, **M. Grasselli**, M. McKibben, *A hyperbolic integrodifferential system related to phase-field models*, Adv. Math. Sci. Appl. 10, pp.601-625, 2000.
 - [54] **M. Grasselli**, *Long time behavior in phase-field models with memory*, in “Equadiff 99 - International Conference on Differential Equations Berlin 1999”, (B. Fiedler, K. Gröger, J. Sprekels, Eds.), Vol. 1, pp.668-673, World Scientific Publishing Co. Pte. Ltd., Singapore, 2000.
 - [55] **M. Grasselli**, M. Ikehata, M. Yamamoto, *Direct and inverse inequalities for the isotropic Lamé system with variable coefficients*, C. R. Acad. Sci. Paris Sér. II-b 328,

pp.575-580, 2000.

- [56] S. Aizicovici, P. Colli, **M. Grasselli**, *Doubly nonlinear evolution equations with memory*, Funkcial. Ekvac. 44, pp.19-51, 2001.
- [57] P. Colli, G. Gilardi, **M. Grasselli**, G. Schimperna, *Global existence for the conserved phase field model with memory and quadratic nonlinearity*, Portugal. Math. 58, pp.159-170, 2001.
- [58] C. Giorgi, **M. Grasselli**, V. Pata, *Well-posedness and longtime behavior of the phase-field model with memory in a history space setting*, Quart. Appl. Math. 59, pp.701-736, 2001.
- [59] P. Colli, G. Gilardi, **M. Grasselli**, G. Schimperna, *The conserved phase-field system with memory*, Adv. Math. Sci. Appl. 11, pp.265-291, 2001.
- [60] **M. Grasselli** and H.G. Rotstein, *Hyperbolic phase-field dynamics with memory*, J. Math. Anal. Appl. 261, pp.205-230, 2001.
- [61] **M. Grasselli** and V. Pata, *Upper semicontinuous attractor for a hyperbolic phase-field model with memory*, Indiana Univ. Math. J. 50, pp.1281-1308, 2001.
- [62] **M. Grasselli** and V. Pata, *On the dissipativity of a hyperbolic phase-field system with memory*, Nonlinear Anal. 47, pp.3157-3169, 2001.
- [63] **M. Grasselli** and V. Pata, *On the longterm behavior of a parabolic phase-field model with memory*, in “Differential Equations and Control Theory” (S. Aizicovici, N.H. Pavel, Eds.), pp.147-157, Lecture Notes in Pure and Appl. Math. 225, Marcel Dekker, New York 2002.
- [64] **M. Grasselli** and V. Pata, *Uniform attractors of nonautonomous dynamical systems with memory*, in “Evolution Equations, Semigroups and Functional Analysis” (A. Lorenzi, B. Ruf, Eds.), pp.155-178, Progr. Nonlinear Differential Equations Appl. 50, Birkhäuser, Basel 2002.
- [65] **M. Grasselli** and V. Pata, *Phase-field systems with memory effects in the order parameter dynamics*, in “Mathematical Models and Methods for Smart Materials” (M. Fabrizio, B. Lazzari and A. Morro, Eds.), pp.155-164, Ser. on Adv. Math. Sci. Appl. 62, World Scientific, Singapore 2002.
- [66] P. Colli, **M. Grasselli**, A. Ito, *On a parabolic-hyperbolic Penrose-Fife phase-field system*, Electron. J. Differential Equations 2002, 100, 30 pp.
- [67] **M. Grasselli**, V. Pata, F.M. Vegni, *Longterm dynamics of a conserved phase-field system with memory*, Asymptot. Anal. 33, pp.261-320, 2003.
- [68] **M. Grasselli** and V. Pata, *Existence of a universal attractor for a parabolic-hyperbolic phase-field system*, Adv. Math. Sci. Appl. 13, pp.443-459, 2003.
- [69] **M. Grasselli** and V. Pata, *On the damped semilinear wave equation with critical*

- exponent*, “Dynamical Systems and Differential Equations” (W. Feng, S. Hu, X. Lu, Eds.), pp.351-358, American Institute of Mathematical Sciences, Springfield 2003.
- [70] S. Gatti, **M. Grasselli** and V. Pata, *Exponential attractors for a conserved phase-field model with memory*, Phys. D 189, pp.31-48, 2004.
 - [71] **M. Grasselli**, V. Pata, G. Prouse, *Longtime behavior of a viscoelastic Timoshenko beam*, Discrete Contin. Dyn. Syst. 10, pp.337-348, 2004.
 - [72] **M. Grasselli** and V. Pata, *Existence of a universal attractor for a fully hyperbolic phase-field system*, J. Evol. Equ. 4, pp.27-51, 2004.
 - [73] S. Gatti, **M. Grasselli**, V. Pata, *Exponential attractors for a phase-field model with memory and quadratic nonlinearities*, Indiana Univ. Math. J. 53, pp.719-754, 2004.
 - [74] **M. Grasselli** and V. Pata, *Attractor for a conserved phase-field system with hyperbolic heat conduction*, Math. Methods Appl. Sci. 27, pp.1917-1934, 2004.
 - [75] **M. Grasselli** and V. Pata, *Asymptotic behavior of a parabolic-hyperbolic system*, Commun. Pure Appl. Anal. 3, pp.849-881, 2004.
 - [76] S. Gatti, **M. Grasselli**, A. Miranville, V. Pata, *Hyperbolic relaxation of the viscous Cahn-Hilliard equation in 3-D*, Math. Models Methods Appl. Sci. 15, pp.165-198, 2005.
 - [77] S. Gatti, **M. Grasselli**, V. Pata, M. Squassina, *Robust exponential attractors for a family of nonconserved phase-field systems with memory*, Discrete Contin. Dyn. Syst. 12, pp.1019-1029, 2005.
 - [78] S. Gatti, **M. Grasselli**, A. Miranville, V. Pata, *Memory relaxation of first order evolution equations*, Nonlinearity 18, pp.1859-1883, 2005.
 - [79] **M. Grasselli**, M. Ikehata, M. Yamamoto, *Direct and inverse inequalities for the isotropic Lamé system with variable coefficients and applications to an inverse source problem*, Appl. Anal. 84, pp.357-375, 2005.
 - [80] **M. Grasselli**, J.E. Muñoz Rivera, V. Pata, *On the energy decay of the linear thermoelastic plate with memory*, J. Math. Anal. Appl. 309, pp.1-14, 2005.
 - [81] S. Gatti, **M. Grasselli**, V. Pata, *Lyapunov functionals for reaction-diffusion equations with memory*, Math. Methods Appl. Sci. 28, pp.1725-1735, 2005.
 - [82] S. Gatti, **M. Grasselli**, A. Miranville, V. Pata, *On the hyperbolic relaxation of the one-dimensional Cahn-Hilliard equation*, J. Math. Anal. Appl. 312, pp.230-247, 2005.
 - [83] **M. Grasselli** and V. Pata, *Robust exponential attractors for a phase-field system with memory*, J. Evol. Equ. 5, pp.465-483, 2005.
 - [84] **M. Grasselli** and V. Pata, *Attractors of phase-field systems with memory*, Chap. 7 of “Mathematical methods and models in phase transitions” (A. Miranville, Ed.), pp.157-175, Nova Science Publishers Inc., New York 2005.

- [85] S. Gatti, **M. Grasselli**, A. Miranville, V. Pata, *A construction of a robust family of exponential attractors*, Proc. Amer. Math. Soc. 134, pp.117-127, 2006.
- [86] V.V. Chepyzhov, S. Gatti, **M. Grasselli**, A. Miranville, V. Pata, *Trajectory and global attractors for evolution equations with memory*, Appl. Math. Lett. 19, pp.87-96, 2006.
- [87] **M. Grasselli**, H. Petzeltová, G. Schimperna, *Long time behavior of solutions to the Caginalp system with singular potential*, Z. Anal. Anwendungen 25, pp.51-72, 2006.
- [88] S. Gatti, **M. Grasselli**, A. Miranville, V. Pata, *Memory relaxation of the Cahn-Hilliard equation*, “Dissipative phase transitions” (P. Colli, N. Kenmochi, J. Sprekels, Eds.), pp.101-114, Ser. on Adv. Math. Sci. Appl. 71, World Scientific, Singapore 2006.
- [89] **M. Grasselli** and V. Pata, *A reaction-diffusion equation with memory*, Discrete Contin. Dyn. Syst. 15, pp.1079-1088, 2006.
- [90] **M. Grasselli** and M. Squassina, *Exponential stability and singular limit for a linear thermoelastic plate with memory effects*, Adv. Math. Sci. Appl. 16, pp.15-31, 2006.
- [91] **M. Grasselli**, H. Petzeltová, G. Schimperna, *Convergence to stationary solutions for a parabolic-hyperbolic phase-field system*, Commun. Pure Appl. Anal. 5, pp.827-838, 2006.
- [92] C. Cavaterra and **M. Grasselli**, *Robust exponential attractors for population dynamics models with infinite time delay*, Discrete Contin. Dyn. Syst. Ser. B 6, pp.1051-1076, 2006.
- [93] S. Gatti and **M. Grasselli**, *Convergence to stationary states of solutions to the semi-linear equation of viscoelasticity*, in “Differential Equations: Inverse and Direct Problems” (A. Favini, A. Lorenzi, Eds.), pp.131-147, Ser. Lect. Notes Pure Appl. Math. 251, Chapman & Hall/CRC, Boca Raton 2006.
- [94] H. Wu, **M. Grasselli**, S. Zheng, *Convergence to equilibrium for a parabolic-hyperbolic phase-field system with Neumann boundary conditions*, Math. Models Methods Appl. Sci. 17, pp.125-153, 2007.
- [95] H. Wu, **M. Grasselli**, S. Zheng, *Convergence to equilibrium for a parabolic-hyperbolic phase-field system with dynamical boundary condition*, J. Math. Anal. Appl. 329, pp.948-976, 2007.
- [96] **M. Grasselli**, A. Miranville, V. Pata, S. Zelik, *Well-posedness and long time behavior of a parabolic-hyperbolic phase-field system with singular potentials*, Math. Nachr. 280, pp.1475-1509, 2007.
- [97] **M. Grasselli**, H. Petzeltová, G. Schimperna, *A nonlocal phase-field system with inertial term*, Quart. Appl. Math. 65, pp.451-469, 2007.

- [98] **M. Grasselli**, H. Petzeltová, G. Schimperna, *Asymptotic behavior of a nonisothermal viscous Cahn-Hilliard equation with inertial term*, J. Differential Equations 239, pp.38-60, 2007.
- [99] **M. Grasselli** and D. Pražák, *Exponential attractors for a class of reaction-diffusion problems with time delays*, J. Evol. Equ. 7, pp.649-667, 2007.
- [100] **M. Grasselli**, *On the large time behavior of a phase-field system with memory*, Asymptot. Anal. 56, pp.229-249, 2008.
- [101] A. Bonfoh, **M. Grasselli**, A. Miranville, *Large time behavior of a singular perturbation of the viscous Cahn-Hilliard-Gurtin equation*, Math. Methods Appl. Sci. 31, pp.695-734, 2008.
- [102] C. Cavaterra and **M. Grasselli**, *Asymptotic behavior of population dynamics models with nonlocal distributed delays*, Discrete Contin. Dyn. Syst. 22, pp.861-883, 2008.
- [103] C.G. Gal and **M. Grasselli**, *The non-isothermal Allen-Cahn equation with dynamic boundary conditions*, Discrete Contin. Dyn. Syst. 22, pp.1009-1040, 2008.
- [104] C.G. Gal, **M. Grasselli**, A. Miranville, *Nonisothermal Allen-Cahn equations with coupled dynamic boundary conditions*, in “Nonlinear phenomena with energy dissipation: mathematical analysis, modeling and simulation” (P. Colli, A. Damlamian, N. Kenmochi, M. Mimura and J. Sprekels, Eds.), pp.117-139, Gakuto Int. Ser. Math. Sci. Appl. 29, Gakkōtoshō, Tokyo 2008.
- [105] C.G. Gal, **M. Grasselli**, A. Miranville, *Robust exponential attractors for singularly perturbed phase-field equations with dynamic boundary conditions*, NoDEA Nonlinear Differential Equations Appl. 15, pp.535-556, 2008.
- [106] **M. Grasselli**, H. Wu, S. Zheng, *Asymptotic behavior of a non-isothermal Ginzburg-Landau model*, Quart. Appl. Math. 66, pp.743-770, 2008.
- [107] C.G. Gal and **M. Grasselli**, *On the asymptotic behavior of the Caginalp system with dynamic boundary conditions*, Commun. Pure Appl. Anal. 8, pp.689-710, 2009.
- [108] **M. Grasselli**, H. Wu, S. Zheng, *Convergence to equilibrium for parabolic-hyperbolic time-dependent Ginzburg-Landau-Maxwell equations*, SIAM J. Math. Anal. 40, pp.2007-2033, 2009.
- [109] C. Cavaterra and **M. Grasselli**, *Robust exponential attractors for singularly perturbed Hodgkin-Huxley equations*, J. Differential Equations 246, pp.4670-4701, 2009.
- [110] **M. Grasselli**, G. Schimperna, S. Zelik, *On the 2D Cahn-Hilliard equation with inertial term*, Comm. Partial Differential Equations 34, pp.137-170, 2009.
- [111] **M. Grasselli**, J.E. Muñoz Rivera, M. Squassina, *Asymptotic behavior of a thermo-viscoelastic plate with memory effects*, Asymptot. Anal. 63, pp.55-84, 2009.
- [112] **M. Grasselli**, G. Schimperna, A. Segatti, S. Zelik, *On the 3D Cahn-Hilliard equation*

with inertial term, J. Evol. Equ. 9, pp.371-404, 2009.

- [113] C. Cavaterra, C.G. Gal, **M. Grasselli**, A. Miranville, *Phase-field systems with non-linear coupling and dynamic boundary conditions*, Nonlinear Anal. 72, pp.2375-2399, 2010.
- [114] C.G. Gal and **M. Grasselli**, *Asymptotic behavior of a Cahn-Hilliard-Navier-Stokes system in 2D*, Ann. Inst. H. Poincaré Anal. Non Linéaire 27, pp.401-436, 2010.
- [115] **M. Grasselli**, G. Schimperna, S. Zelik, *Trajectory and smooth attractors for Cahn-Hilliard equations with inertial term*, Nonlinearity 23, pp.707-737, 2010.
- [116] A. Bonfioh, **M. Grasselli**, A. Miranville, *Inertial manifolds for a singular perturbation of the viscous Cahn-Hilliard-Gurtin equation*, Topol. Methods Nonlinear Anal. 35, pp.155-185, 2010.
- [117] C.G. Gal and **M. Grasselli**, *Longtime behavior for a model of homogeneous incompressible two-phase flows*, Discrete Contin. Dyn. Syst. 28, pp.1-39, 2010.
- [118] **M. Grasselli**, A. Miranville, G. Schimperna, *The Caginalp phase-field system with coupled dynamic boundary conditions and singular potentials*, Discrete Contin. Dyn. Syst. 28, pp.67-98, 2010.
- [119] **M. Grasselli** and M. Pierre, *A splitting method for the Cahn-Hilliard equation with inertial term*, Math. Models Methods Appl. Sci. 20, pp.1363-1390, 2010.
- [120] A. Bonfioh, **M. Grasselli**, A. Miranville, *Singularly perturbed 1D Cahn-Hilliard equation revisited*, NoDEA Nonlinear Differential Equations Appl. 17, pp.663-695, 2010.
- [121] **M. Grasselli**, D. Pražák, G. Schimperna, *Attractors for nonlinear reaction-diffusion systems in unbounded domains via the method of short trajectories*, J. Differential Equations 249, pp.2287-2315, 2010.
- [122] C.G. Gal and **M. Grasselli**, *Trajectory attractors for binary fluid mixtures in 3D*, Chinese Ann. Math. Ser. B 31, pp.655-678, 2010.
- [123] M. Conti, S. Gatti, **M. Grasselli**, V. Pata, *Two-dimensional reaction-diffusion equations with memory*, Quart. Appl. Math. 68, pp.607-643, 2010.
- [124] C. Cavaterra, C.G. Gal, **M. Grasselli**, *Cahn-Hilliard equations with memory and dynamic boundary conditions*, Asymptot. Anal. 71, pp.123-162, 2011.
- [125] C.G. Gal and **M. Grasselli**, *Instability of two-phase flows: a lower bound on the dimension of the global attractor of the Cahn-Hilliard-Navier-Stokes system*, Phys. D 240, pp.629-635, 2011.
- [126] **M. Grasselli**, A. Miranville, G. Schimperna, R. Rossi, *Analysis of the Cahn-Hilliard equation with a chemical potential dependent mobility*, Comm. Partial Differential Equations 36, pp.1193-1238, 2011.
- [127] **M. Grasselli** and H. Wu, *Finite-dimensional global attractor for a system modeling*

- the 2D nematic liquid crystal flow*, Z. Angew. Math. Phys. 62, pp.979-992, 2011.
- [128] **M. Grasselli** and D. Pražák, *Longtime behavior of a diffuse interface model for binary fluid mixtures with shear dependent viscosity*, Interfaces Free Bound. 13, pp.507-530, 2011.
 - [129] **M. Grasselli**, G. Mola, A. Yagi, *On the longtime behavior of solutions to a model for epitaxial growth*, Osaka J. Math. 48, pp.987-1004, 2011.
 - [130] **M. Grasselli**, N. Lecoq, M. Pierre, *A long-time stable fully discrete approximation of the Cahn-Hilliard equation with inertial term*, Discrete Contin. Dyn. Syst. Suppl., pp.543-552, 2011.
 - [131] P. Colli, S. Frigeri, **M. Grasselli**, *Global existence of weak solutions to a nonlocal Cahn-Hilliard-Navier-Stokes system*, J. Math. Anal. Appl. 386, pp.428-444, 2012.
 - [132] **M. Grasselli** and M. Pierre, *Convergence to equilibrium of solutions of the backward Euler scheme for asymptotically autonomous second-order gradient-like systems*, Commun. Pure Appl. Anal. 11, pp.2393-2416, 2012.
 - [133] S. Frigeri and **M. Grasselli**, *Global and trajectory attractors for a nonlocal Cahn-Hilliard-Navier-Stokes system*, J. Dynam. Differential Equations 24, pp.827-856, 2012.
 - [134] S. Frigeri and **M. Grasselli**, *Nonlocal Cahn-Hilliard-Navier-Stokes systems with singular potentials*, Dyn. Partial Differ. Equ. 9, pp.273-304, 2012.
 - [135] **M. Grasselli**, *Finite-dimensional global attractor for a nonlocal phase-field system*, Istit. Lombardo Accad. Sci. Lett. Rend. A 146, pp.3-22, 2012.
 - [136] C.G. Gal and **M. Grasselli**, *Singular limit of viscous Cahn-Hilliard equations with memory and dynamic boundary conditions*, Discrete Contin. Dyn. Syst. Ser. B 18, pp.1581-1610, 2013.
 - [137] **M. Grasselli** and H. Wu, *Long-time behavior for a hydrodynamic model on nematic liquid crystal flows with asymptotic stabilizing boundary condition and external force*, SIAM J. Math. Anal. 45, pp.965-1002, 2013.
 - [138] **M. Grasselli** and G. Schimperna, *Nonlocal phase-field systems with general potentials*, Discrete Contin. Dyn. Syst. Ser. A 33, pp.5089-5106, 2013.
 - [139] S. Frigeri, **M. Grasselli**, P. Krejčí, *Strong solutions for two-dimensional nonlocal Cahn-Hilliard-Navier-Stokes systems*, J. Differential Equations 255, pp.2587-2614, 2013.
 - [140] C.G. Gal and **M. Grasselli**, *Longtime behavior of nonlocal Cahn-Hilliard equations*, Discrete Contin. Dyn. Syst. Ser. A 34, pp.145-179, 2014.
 - [141] S. Bosia, **M. Grasselli**, A. Miranville, *On the longtime behavior of a 2D hydrodynamic model for chemically reacting binary fluid mixtures*, Math. Methods Appl. Sci. 37, pp.726-743, 2014.

- [142] **M. Grasselli** and D. Pražák, *Regularity results for a Cahn-Hilliard-Navier-Stokes system with shear dependent viscosity*, Z. Anal. Anwendungen 33, pp.271-288, 2014.
- [143] **M. Grasselli** and H. Wu, *Well-posedness and longtime behavior for the modified phase-field crystal equation*, Math. Models Methods Appl. Sci. 24, pp.2743-2783, 2014.
- [144] C. Cavaterra, **M. Grasselli**, H. Wu, *Non-isothermal viscous Cahn-Hilliard equation with inertial term and dynamic boundary conditions*, Commun. Pure Appl. Anal. 13, pp.1855-1890, 2014.
- [145] H. Abels, S. Bosia, **M. Grasselli**, *Cahn-Hilliard equation with nonlocal singular free energies*, Ann. Mat. Pura Appl. (4) 194, pp.1071-1106, 2015.
- [146] **M. Grasselli** and H. Wu, *Robust exponential attractors for the modified phase-field crystal equation*, Discrete Contin. Dyn. Syst. Ser. A 35, pp.2539-2564, 2015.
- [147] S. Frigeri, **M. Grasselli**, E. Rocca, *On a diffuse interface model of tumour growth*, European J. Appl. Math. 26, pp.215-243, 2015.
- [148] S. Frigeri, **M. Grasselli**, E. Rocca, *A diffusive interface model for two-phase incompressible flows with nonlocal interactions and nonconstant mobility*, Nonlinearity 28, pp.1257-1293, 2015.
- [149] F. Della Porta and **M. Grasselli**, *Convective nonlocal Cahn-Hilliard equations with reaction terms*, Discrete Contin. Dyn. Syst. Ser. B 20, pp.1529-1553, 2015.
- [150] S. Bosia, M. Conti, **M. Grasselli**, *On the Cahn-Hilliard-Brinkman system*, Commun. Math. Sci. 13, pp.1541-1567, 2015.
- [151] M. Conti, A. Giorgini, **M. Grasselli**, *Phase-field crystal equation with memory*, J. Math. Anal. Appl. 436, pp.1297-1331, 2016.
- [152] F. Della Porta and **M. Grasselli**, *On the nonlocal Cahn-Hilliard-Brinkman and Cahn-Hilliard-Hele-Shaw systems*, Commun. Pure Appl. Anal. 15, pp.299-317, 2016.
- [152bis] F. Della Porta and **M. Grasselli**, *Erratum: On the nonlocal Cahn-Hilliard-Brinkman and Cahn-Hilliard-Hele-Shaw systems*, Commun. Pure Appl. Anal. 16, pp.369-372, 2017.
- [153] P.F. Antonietti, **M. Grasselli**, S. Stangalino, M. Verani, *Discontinuous Galerkin approximation of linear parabolic problems with dynamic boundary conditions*, J. Sci. Comput. 66, pp.1260-1280, 2016.
- [154] **M. Grasselli** and M. Pierre, *Energy stable and convergent finite element schemes for the modified phase field crystal equation*, ESAIM Math. Model. Numer. Anal. 50, pp.1523-1560, 2016.
- [155] S. Frigeri, C.G. Gal, **M. Grasselli**, *On nonlocal Cahn-Hilliard-Navier-Stokes systems in two dimensions*, J. Nonlinear Sci. 26, pp.847-893, 2016.

- [156] C.G. Gal, **M. Grasselli**, A. Miranville, *Cahn-Hilliard-Navier-Stokes systems with moving contact lines*, Calc. Var. Partial Differential Equations 55, 47 pp., 2016.
- [157] C.G. Gal, A. Giorgini, **M. Grasselli**, *The nonlocal Cahn-Hilliard equation with singular potential: well-posedness, regularity and strict separation property*, J. Differential Equations 263, pp.5253-5297, 2017.
- [158] A. Giorgini, **M. Grasselli**, A. Miranville, *The Cahn-Hilliard-Oono equation with singular potential*, Math. Models Methods Appl. Sci. 27, pp.2485-2510, 2017.
- [159] A. Agosti, P.F. Antonietti, P. Ciarletta, **M. Grasselli**, M. Verani, *A Cahn-Hilliard type equation with application to tumor growth dynamics*, Math. Methods Appl. Sci. 40, pp.7598-7626, 2017.
- [160] S. Frigeri, **M. Grasselli**, D. Pražák, *Nonlocal Cahn-Hilliard-Navier-Stokes systems with shear dependent viscosity*, J. Math. Anal. Appl. 459, pp.753-777, 2018.
- [161] A. Giorgini, **M. Grasselli**, H. Wu, *The Cahn-Hilliard-Hele-Shaw system with singular potential*, Ann. Inst. H. Poincaré Anal. Non Linéaire 35, pp.1079-1118, 2018.
- [162] F. Della Porta, A. Giorgini, **M. Grasselli**, *The nonlocal Cahn-Hilliard-Hele-Shaw system with logarithmic potential*, Nonlinearity 31, pp.4851-4881, 2018.
- [163] E. Bonetti, C. Cavaterra, F. Freddi, **M. Grasselli**, R. Natalini, *A nonlinear model for marble sulphation including surface rugosity: theoretical and numerical results*, Commun. Pure Appl. Anal. 18, pp.977-998, 2019.
- [164] S. Frigeri, C.G. Gal, **M. Grasselli**, J. Sprekels, *Two-dimensional nonlocal Cahn-Hilliard-Navier-Stokes systems with variable viscosity, degenerate mobility and singular potential*, Nonlinearity 32, pp.678-727, 2019.
- [165] C.G. Gal, **M. Grasselli**, H. Wu, *Global weak solutions to a diffuse interface model for incompressible two-phase flows with moving contact lines and different densities*, Arch. Ration. Mech. Anal. 234, pp.1-56, 2019.
- [166] S. Frigeri, **M. Grasselli**, J. Sprekels, *Optimal distributed control of two-dimensional nonlocal Cahn-Hilliard-Navier-Stokes systems with degenerate mobility and singular potential*, Appl. Math. Optim. 81, pp.899-931, 2020.
- [167] L. Cherfils, H. Fakhir, **M. Grasselli**, A. Miranville, *A convergent convex splitting scheme for a nonlocal Cahn-Hilliard-Oono type equation with a transport term*, ESAIM Math. Model. Numer. Anal. 55, pp.225-250, 2021.
- [168] E. Bonetti, C. Cavaterra, F. Freddi, **M. Grasselli**, R. Natalini, *Chemomechanical Degradation of Monumental Stones: Preliminary Results*, in “Mathematical Modeling in Cultural Heritage”, (E. Bonetti, C. Cavaterra, M. Solci, R. Natalini Eds.), pp.59-72, Springer INdAM Series 41, Springer, Cham 2021.
- [169] S. Frigeri, C.G. Gal, **M. Grasselli**, *Regularity results for the nonlocal Cahn-Hilliard*

- equation with singular potential and degenerate mobility*, J. Differential Equations 287, pp.295-328, 2021.
- [170] **M. Grasselli**, A. Poiatti, *The Cahn-Hilliard-Boussinesq system with singular potential*, Commun. Math. Sci., to appear.
 - [171] A. Giorgini, **M. Grasselli**, H. Wu, *Diffuse interface models for incompressible binary fluids and the mass-conserving Allen-Cahn approximation*, submitted.
 - [172] A. Di Primio, **M. Grasselli**, *On a system of coupled Cahn-Hilliard equations*, submitted.
 - [173] C. Cavaterra, S. Frigeri, **M. Grasselli**, *Nonlocal Cahn-Hilliard-Hele-Shaw systems with singular potential and degenerate mobility*, submitted.
 - [174] C.G. Gal, **M. Grasselli**, A. Poiatti, *Allen-Cahn-Navier-Stokes-Voigt systems with moving contact lines*, submitted.