PUBLICATION LIST

- [1] A Spectral Mapping Theorem for the Exponential Function in Linear Transport Theory, Transport Theory and Stat. Physics, **14**(5) (1985), 655–667.
- [2] Two Counterexamples to the Spectral Mapping Theorem for Semigroups of Positive Operators, Integral Equations and Operator Theory, 9 (1986), 460–467.
- [3] A Formula for the Resolvent of $(-\Delta)^m + M_q^{2m}$ with Applications to Trace Class, Trans. Amer. Math. Soc., **303**(1) (1987), 325–344.
- [4] On ℓ_p -Summability of the Characteristic Values of Integral Operators on $L_2(\mathbb{R}^N)$, Integral Equations and Operator Theory, **10** (1987), 819–840.
- [5] Fractional Powers of $(-\Delta)^m + M_q^{2m}$ with Applications to Trace Class, Indiana Univ. Math. J., 37(1) (1988), 201–222.
- [6] The local stability of positive solutions to the Hammerstein equation with a nonmonotonic Nemytskii operator, Monatshefte für Mathematik, 106 (1988), 313–335.
- [7] (with G. F. Webb and D. P. Hardin) A Comparison of Dispersal Strategies for Survival of Spatially Heterogeneous Populations, SIAM J. Appl. Math., 48 (1988), 1396–1423.
- [8] (with G. F. Webb and D. P. Hardin) Asymptotic Properties of a Continuous-Space Discrete-Time Population Model in a Random Environment, J. Math. Biology, 26 (1988), 361–374.
- [9] The nonlinear Boltzmann equation: representation theory, super- and subsolutions, "Proceedings of the Wing Conference, Jan. 22-24, 1988, Santa Fe, NM. Lecture Notes in Pure and Applied Math., Vol. 115, pp. 147–163, Marcel Dekker, New York and Basel, 1989.
- [10] (with G. F. Webb and D. P. Hardin) Dispersion Population Models Discrete in Time and Continuous in Space, J. Math. Biology, 28 (1990), 1–20.
- [11] Convergence to equilibrium on invariant d-hypersurfaces for strongly increasing discretetime semigroups, J. Math. Anal. Appl., 148 (1990), 223–244.
- [12] Asymptotic behavior of discrete-time semigroups of sublinear, strongly increasing mappings with applications in biology, Nonlinear Analysis, 14 (1990), 35–42.
- [13] A fast diffusion equation which generates a monotone local semiflow I: Local existence and uniqueness, Differential and Integral Equations, 4(1) (1991), 151–174.
- [14] A fast diffusion equation which generates a monotone local semiflow II: Global existence and asymptotic behavior, Differential and Integral Equations, 4(1) (1991), 175–187.
- [15] Domains of attraction of generic ω -limit sets for strongly monotone semiflows, Z. Anal. Anwendungen, **10**(3) (1991), 275–317.
- [16] Domains of attraction of generic ω -limit sets for strongly monotone discrete-time semi-groups, J. reine angew. Math., **423** (1992), 101–173.
- [17] Large-time behavior of a time-periodic cooperative system of reaction-diffusion equations depending on parameters, SIAM J. Math. Anal., 23(2) (1992), 387–411.
- [18] Asymptotic behavior of strongly monotone time-periodic dynamical processes with symmetry, J. Differential Equations, 100 (1992), 355–378.
- [19] Linearly stable subharmonic orbits in strongly monotone time-periodic dynamical systems, Proc. Amer. Math. Soc., 115 (1992), 691–698.

- [20] Invariant 2-tori in the time-dependent Ginzburg-Landau equation, Nonlinearity, 5(2) (1992), 289–321.
- [21] A construction of stable subharmonic orbits in monotone time-periodic dynamical systems, Monatshefte für Mathematik, 115 (1993), 215–244.
- [22] A short elementary proof of the Kreĭn-Rutman theorem, Houston J. Math., **20**(1) (1994), 93–98.
- [23] (with J. Fleckinger) Unicité de la solution d'un système non linéaire strictement coopératif, Comptes Rendus de l'Académie des Sciences de Paris, 319 (1994), Série I, 447–450.
- [24] (with J. Fleckinger) Uniqueness of positive solutions for nonlinear cooperative systems with the p-Laplacian, Indiana Univ. Math. J., 43(4) (1994), 1227–1253.
- [25] (with J. Fleckinger, J.-P. Gossez, and F. de Thélin) Existence, nonexistence et principe de l'antimaximum pour le p-laplacien, Comptes Rendus de l'Académie des Sciences de Paris, **321** (1995), Série I, 731–734.
- [26] Dynamics on the attractor for the complex Ginzburg-Landau equation, Rostocker Mathematisches Kolloquium, 49 (1995), 163–184.
- [27] Convergence in the part metric for discrete dynamical systems in ordered topological cones, Nonlinear Analysis, **26**(11) (1996), 1753–1777.
- [28] (with P. Bollerman, A. Doelman, A. van Harten and E. S. Titi) Analyticity of essentially bounded solutions to semilinear parabolic systems and validity of the Ginzburg-Landau equation, SIAM J. Math. Anal., 27(2) (1996), 424–448. Online: http://dx.doi.org/10.1137/S0036141094262518.
- [29] An abstract form of maximum and anti-maximum principles of Hopf's type, J. Math. Anal. Appl., **201** (1996), 339–364.
- [30] On the dynamical process generated by a superconductivity model, In "Proceedings of ICIAM'95", Z. angew. Math. Mech., **76**(S2) (1996), 349–352.
- [31] (with B. Alziary) A pointwise lower bound for positive solutions of a Schrödinger equation in \mathbb{R}^N , J. Differential Equations, 133(2) (1997), 280–295.
- [32] Discrete monotone dynamics and time-periodic competition between two species, Differential and Integral Equations, 10(3) (1997), 547–576.
- [33] (with H. G. Kaper) An Equivalence Relation for the Ginzburg-Landau Equations of Superconductivity, Z. angew. Math. Phys., 48 (1997), 665–675.
- [34] (with M. Cuesta) A strong comparison principle for the Dirichlet p-Laplacian, in "Reaction-Diffusion Systems", G. Caristi and E. Mitidieri, eds., pp. 79–87. In Lecture Notes in Pure and Applied Mathematics, Vol. 194. Marcel Dekker, Inc., New York–Basel, 1998.
- [35] (with J. Fleckinger, J. Hernández, and F. de Thélin) Uniqueness and Positivity for Solutions of Equations with the p-Laplacian, in "Reaction-Diffusion Systems", G. Caristi and E. Mitidieri, eds., pp. 141–155. In Lecture Notes in Pure and Applied Mathematics, Vol. 194. Marcel Dekker, Inc., New York–Basel, 1998.
- [36] Bifurcations to Invariant 2-Tori for the Complex Ginzburg-Landau equation, Applied Mathematics and Computation, 89(1–3) (1998), 241–258.

- [37] (with J. Fleckinger and H. G. Kaper) Dynamics of the Ginzburg-Landau equations of superconductivity, Nonlinear Analysis, **32**(5) (1998), 647–665.
- [38] (with H. G. Kaper) Ginzburg-Landau dynamics with a time-dependent magnetic field, Nonlinearity, 11(2) (1998), 291–305.
- [39] (with J. Fleckinger) Maximum and Anti-Maximum Principles for Some Elliptic Problems, In "Advances in Differential Equations and Mathematical Physics", Proceedings of the 1997 International Conference on Differential Equations and Mathematical Physics, 1997, Atlanta, Georgia, U.S.A. Contemporary Mathematics, Vol. 217, pp. 19–32, American Mathematical Society, Providence, R.I., U.S.A., 1998.
- [40] (with J. Fleckinger, J.-P. Gossez, and F. de Thélin) Nonexistence of solutions and an anti-maximum principle for cooperative systems with the p-Laplacian, Math. Nachrichten, 194 (1998), 49–78.
- [41] (with P. Drábek) A Counterexample to the Fredholm Alternative for the p-Laplacian, Proc. Amer. Math. Soc., 127(4) (1999), 1079–1087.
- [42] Degenerate Elliptic Equations in Ordered Banach Spaces and Applications, In "Nonlinear Differential Equations", Lectures at the 1998 Summer School, 1998, Prague, Czech Republic; P. Drábek, P. Krejčí and P. Takáč, Eds. Chapman & Hall/CRC Research Notes in Mathematics, Vol. 404, pp. 111–196, CRC Press LLC, Boca Raton, FL, U.S.A., 1999. (Formerly Pitman Mathematics Series.)
- [43] (with B. Alziary and J. Fleckinger) An Extension of Maximum and Anti-Maximum Principles to a Schrödinger Equation in \mathbb{R}^2 , J. Differential Equations, **156** (1999), 122–152.
- [44] (with S.-Z. Huang) Global smooth solutions of the complex Ginzburg-Landau equation and their dynamical properties, Discrete and Continuous Dynamical Systems, 5(4) (1999), 825–848.
- [45] (with H. G. Kaper) Bifurcating vortex solutions of the complex Ginzburg-Landau equation, Discrete and Continuous Dynamical Systems, 5(4) (1999), 871–880.
- [46] (with B. Alziary and J. Fleckinger) Maximum and anti-maximum principles for some systems involving Schrödinger operators, In "The Maz'ya Anniversary Collection", Vol. 2, Proceedings of the Rostock Conference on Functional Analysis, Partial Differential Equations and Applications, Aug. 31 Sept. 4, 1998, Rostock, Germany; J. Roßmann, P. Takáč and G. Wildenhain, Eds. Operator Theory, Advances and Applications, Vol. 110, pp. 13–21, Birkhäuser, Basel and Boston, 1999.
- [47] (with M. Cuesta) A Strong Comparison Principle for Positive Solutions of Degenerate Elliptic Equations, Differential and Integral Equations, 13(4–6) (2000), 721–746.
- [48] (with A. Jüngel) A nonstiff Euler discretization of the complex Ginzburg-Landau equation in one space dimension, SIAM J. Numer. Anal., **38**(1) (2000), 292–328. Online: http://dx.doi.org/10.1137/S0036142998332852.
- [49] Stabilization of positive solutions for analytic gradient-like systems, Discrete and Continuous Dynamical Systems, **6**(4) (2000), 947–973.
- [50] Bifurcations and vortex formation in the Ginzburg-Landau equations, Z. angew. Math. Mech., 81(8) (2001), 523–539.

- [51] (with B. Alziary and J. Fleckinger) Positivity and Negativity of Solutions to a Schrödinger Equation in \mathbb{R}^N , Positivity, **5**(4) (2001), 359–382.
- [52] (with S.-Z. Huang) Convergence in gradient-like systems which are asymptotically autonomous and analytic, Nonlinear Analysis, 46(5) (2001), 675–698.
- [53] (with E. Feireisl) Long-time stabilization of solutions to the Ginzburg-Landau equations of superconductivity, Monatshefte für Mathematik, 133 (2001), 197–221.
- [54] (with L. Tello and M. Ulm) Variational problems with a p-homogeneous energy, Positivity, 6(1) (2002), 75–94.
- [55] (with R. F. Manásevich) On the Fredholm Alternative for the p-Laplacian in One Dimension, Proc. London Math. Society, (3)84 (2002), 324–342. Online: doi: 10.1112/plms/84.2.324.
- [56] (with J. Fleckinger) An improved Poincaré inequality and the p-Laplacian at resonance for p > 2, Advances in Differential Equations, 7(8) (2002), 951–971.
- [57] On the Fredholm alternative for the p-Laplacian at the first eigenvalue, Indiana Univ. Math. J., **51**(1) (2002), 187–237.
- [58] On the number and structure of solutions for a Fredholm alternative with the p-Laplacian,
 J. Differential Equations, 185 (2002), 306–347.
- [59] (with E. Coskun and Z. Cakir) Nucleation of vortices with a temperature and timedependent Ginzburg-Landau model of superconductivity, Euro. Jnl of Applied Math., 14 (2003), 111–127. Online: doi: 10.1017/S0956792502004990.
- [60] (with B. Alziary and J. Fleckinger) Eigenfunctions and Hardy inequalities for a magnetic Schrödinger operator in \mathbb{R}^2 , Math. Methods Appl. Sci., **26** (2003), 1093–1136.
- [61] (with P. Drábek, P. Girg and M. Ulm) The Fredholm alternative for the p-Laplacian: bifurcation from infinity, existence and multiplicity of solutions, Indiana Univ. Math. J., 53(2) (2004), 433–482.
- [62] (with P. Drábek and P. Girg) Bounded perturbations of homogeneous quasilinear operators using bifurcations from infinity, J. Differential Equations, **204**(2) (2004), 265–291.
- [63] Nonlinear Spectral Problems for Degenerate Elliptic Operators, in M. Chipot and P. Quittner; eds., "Handbook of Differential Equations: Stationary Partial Differential Equations", Vol. 1, pp. 385–489. Elsevier Science B.V., Amsterdam, The Netherlands, 2004.
- [64] (with B. Alziary and J. Fleckinger) Variational methods for a resonant problem with the p-Laplacian in \mathbb{R}^N , Electronic J. Diff. Equations, **2004**(76) (2004), 1–32. ISSN: 1072-6691.
- [65] L[∞]-Bounds for Weak Solutions of an Evolutionary Equation with the p-Laplacian, in P. Drábek and J. Rákosník; eds., Proceedings of the 2004 International Conference on "Function Spaces, Differential Operators and Nonlinear Analysis" (FSDONA) in honor of Alois Kufner, May 28 − June 2, 2004, Brno-Milovy, Czech Republic, pp. 327–354. Math. Inst. of the Academy of Sciences of the Czech Republic (MÚ AV ČR), Prague, 2005.
- [66] A variational approach to the Fredholm alternative for the p-Laplacian near the first eigenvalue, J. Dynamics Diff. Equations, **18**(3) (2006), 693–765. Online: doi: 10.1007/s10884-006-9017-2.

- [67] (with P. Drábek) Poincaré inequality and Palais-Smale condition for the p-Laplacian, Calc. Variations, 29 (2007), 31–58. Online: doi: 10.1007/s00526-006-0055-8.
- [68] (with B. Alziary and J. Fleckinger) Ground-state positivity, negativity, and compactness for a Schrödinger operator in \mathbb{R}^N , J. Funct. Anal., **245**(1) (2007), 213–248. Online: doi: 10.1016/j.jfa.2006.12.007.
- [69] (with J. Giacomoni and I. Schindler) Sobolev versus Hölder local minimizers and existence of multiple solutions for a singular quasilinear equation, Annali Scuola Norm. Sup. Pisa, Ser. V, 6(1) (2007), 117–158.
- [70] (with B. Alziary) Compactness for a Schrödinger operator in the ground-state space over \mathbb{R}^N , Electr. J. Differential Equations, Conf. 16 (2007), 35–58. ISSN: 1072-6691. In Proceedings of the 2006 International Conference on "Partial Differential Equations and Applications" in honor of Jacqueline Fleckinger, June 30 July 1, 2006, Toulouse, France.
- [71] (with K. Tintarev) Generalized minimizer solutions for equations with the p-Laplacian and a potential term, Proc. Royal Soc. Edinburgh, 138 A (2008), 201–221.
- [72] (with P. Girg) Bifurcations of positive and negative continua in quasilinear elliptic eigenvalue problems, Annales Henri Poincaré, 9 (2008), 275–327. Online: doi: 10.1007/s00023-008-0356-x.
- [73] (with B. Alziary) Intrinsic ultracontractivity of a Schrödinger semigroup in \mathbb{R}^N , J. Funct. Anal., **256**(12) (2009), 4095–4127. Online: doi: 10.1016/j.jfa.2009.02.013.
- [74] Stationary radial solutions for a quasilinear Cahn-Hilliard model in N space dimensions, Electr. J. Differential Equations, Conf. 17 (2009), 227–254. ISSN: 1072-6691. In Proceedings of the "Seventh Mississippi State UAB Conference on Differential Equations and Computational Simulations", November 1 3, 2007, Birmingham, Alabama, U.S.A.
- [75] (with J. Benedikt and P. Girg) On the Fredholm alternative for the p-Laplacian at higher eigenvalues (in one dimension), Nonlinear Analysis, T.M.A., **72**(6) (2010), 3091–3107. Online: doi: 10.1016/j.na.2009.11.048.
- [76] (with J. F. Padial and L. Tello) An antimaximum principle for a degenerate parabolic problem, Advances in Differential Equations, **15**(7–8) (2010), 601–648. Online: http://projecteuclid.org/euclid.ade/1355854621.
- [77] Variational methods and linearization tools towards the spectral analysis of the p-Laplacian, especially for the Fredholm alternative (lecture notes for advanced Ph.D. students), Electr. J. Differential Equations, Conf. 18 (2010), 67–105. ISSN: 1072-6691. In Proceedings of the Conference on "Variational and Topological Methods: Theory, Applications, Numerical Simulations, and Open Problems, II", May 23–27, 2007, Flagstaff, Arizona, U.S.A.
- [78] (with A. Derlet and J.-P. Gossez) Minimization of eigenvalues for a quasilinear elliptic Neumann problem with indefinite weight, J. Math. Anal. Appl., **371** (2010), 69–79. Online: doi: 10.1016/j.jmaa.2010.03.068.
- [79] (with P. Drábek) On variational eigenvalues of the p-Laplacian which are not of Ljuster-nik-Schnirelmann-type, J. London Math. Society, **81**(2) (2010), 625–649. Online: doi: 10.1112/jlms/jdq006.

- [80] (with M. Cuesta) Nonlinear eigenvalue problems for degenerate elliptic systems, Differential and Integral Equations, 23(11–12) (2010), 1117–1138. Online: http://projecteuclid.org/euclid.die/1356019076.
- [81] (with P. Drábek and R. F. Manásevich) Manifolds of critical points in a quasilinear model for phase transitions, In D. Bonheure, M. Cuesta, E. J. Lami Dozo, P. Takáč, J. Van Schaftingen, and M. Willem; eds., "Nonlinear Elliptic Partial Differential Equations", Proceedings of the 2009 "International Workshop in Nonlinear Elliptic PDEs," A celebration of Jean-Pierre Gossez's 65-th birthday, September 2–4, 2009, Brussels, Belgium. Contemporary Mathematics, Vol. 540, pp. 95–134, American Mathematical Society, Providence, R.I., U.S.A., 2011.
- [82] (with Y. Sh. Il'yasov) Optimal W_{loc}^{2,2}-regularity, Pohozhaev's identity, and nonexistence of weak solutions to some quasilinear elliptic equations, J. Differential Equations, **252** (2012), 2792–2822. Online: doi: 10.1016/j.jde.2011.10.020.
- [83] (with E. Feireisl and H. Petzeltová) Travelling waves in a convection-diffusion equation, J. Differential Equations, 252 (2012), 2296–2310. Online: doi: 10.1016/j.jde.2011.07.028.
- [84] (with A. Derlet) A quasilinear parabolic model for population evolution, Diff. Equations and Applications, 4(1) (2012), 121–136.
- [85] (with J. Benedikt and P. Girg) Perturbation of the p-Laplacian by vanishing nonlinearities (in one dimension), Nonlinear Analysis, T.M.A., 75(8) (2012), 3691–3703. Online: doi: 10.1016/j.na.2012.01.026.
- [86] Space-time analyticity of weak solutions to linear parabolic systems with variable coefficients, J. Funct. Anal., **263**(1) (2012), 50–88. Online: doi: 10.1016/j.jfa.2012.04.008.
- [87] (with J. Giacomoni and I. Schindler) Régularité höldérienne pour des équations quasilinéaires elliptiques singulières, Comptes Rendus de l'Académie des Sciences de Paris, Série I, **350** (2012), 383–388. Online: http://dx.doi.org/10.1016/j.crma.2012.04.007.
- [88] (with B. Alziary) Option pricing for stocks with dividends: an analytic approach by PDEs, Monografías de la Real Academia de Ciencias de Zaragoza, **38** (2012), 125–136.
- [89] (with E. Feireisl, D. Hilhorst, and H. Petzeltová) Front Propagation in Nonlinear Parabolic Equations, Journal of the London Math. Soc., **90**(2) (2014), 551–572. Online: doi:10.1112/jlms/jdu039.
- [90] (with V. E. Bobkov) A Strong Maximum Principle for parabolic equations with the p-Laplacian, J. Math. Anal. Appl., 419 (2014), 218–230. Online: http://dx.doi.org/10.1016/j.jmaa.2014.04.054.
- [91] (with J. Giacomoni and I. Schindler) Singular quasilinear elliptic systems and Hölder regularity, Advances in Differential Equations, **20**(3–4) (2015), 259–298. Online: http://projecteuclid.org/euclid.ade/1423055202.
- [92] (with J. Benedikt, V. E. Bobkov, P. Girg, and L. Kotrla) Nonuniqueness of Solutions of Initial Value Problems for Parabolic p-Laplacian, Electronic J. Diff. Equations, 2015(38) (2015), 1–7. ISSN: 1072-6691. Online: URL: http://ejde.math.txstate.edu.

- [93] (with B. Bougherara and J. Giacomoni) Bounded solutions to a quasilinear and singular parabolic equation with p-Laplacian, Nonlinear Analysis, T.M.A., 119 (2015), 254–274. Online: http://dx.doi.org/10.1016/j.na.2014.10.010.
- [94] (with J. Benedikt, P. Girg, and L. Kotrla) Nonuniqueness and multi-bump solutions in parabolic problems with the p-Laplacian, J. Differential Equations, **260** (2016), 991–1009. Online: doi: 10.1016/j.jde.2015.09.015.
- [95] (with E. Feireisl, D. Hilhorst, and H. Petzeltová) Mathematical analysis of variable density flows in porous media, J. Evolution Equations, 16(1) (2016), 1–19. Online: doi: 10.1007/s00028-015-0290-6.
- [96] (with P. Drábek) New patterns of travelling waves in the generalized Fisher-Kolmogorov equation, Nonlinear Differ. Equ. Appl. (NoDEA), 23 (2016), Article 7. Online: doi: 10.1007/s00030-016-0365-2.
- [97] (with J. Benedikt, P. Girg, and L. Kotrla) The strong maximum principle in parabolic problems with the p-Laplacian in a domain, Appl. Math. Letters, **63** (2017), 95–101. Online: http://dx.doi.org/10.1016/j.aml.2016.07.017.
- [98] (with J. García-Melián and J. C. Sabina de Lis) Dirichlet problems for the p-Laplacian with a convection term, Revista Matemática Complutense, **30**(2) (2017), 313–334. Online: doi: 10.1007/s13163-017-0227-4.
- [99] (with P. Drábek) Convergence to travelling waves in Fisher's population genetics model with a non-Lipschitzian reaction term, J. Math. Biology, **75** (2017), 929–972. Online: doi: 10.1007/s00285-017-1103-z.
- [100] (with E. Feireisl, J. Mikyška, and H. Petzeltová) On the motion of chemically reacting fluids though porous medium, In "From Particle Systems to Partial Differential Equations", Springer Proc. Math. Stat., Vol. 209, pp. 139–152, Springer-Verlag, Cham, 2017.
- [101] (with M. Shimojo and E. Yanagida) Asymptotic behavior of solutions to the logarithmic diffusion equation with a linear source, Math. Annalen, 372(1–2) (2018), 429–449. Online: doi: 10.1007/s00208-017-1604-5.
- [102] (with J. Benedikt, P. Girg, and L. Kotrla) The Origin of the p-Laplacian and A. Missbach, Electronic J. Diff. Equations, **2018**(16) (2018), 1–17. ISSN: 1072-6691. Online: URL: http://ejde.math.txstate.edu.
- [103] (with B. Alziary) Analytic Solutions and Complete Markets for the Heston model with Stochastic Volatility, Electronic J. Diff. Equations, **2018**(168) (2018), 1–54. ISSN: 1072-6691. Online: URL: http://ejde.math.txstate.edu.
- [104] (with V. E. Bobkov) On maximum and comparison principles for parabolic problems with the p-Laplacian, Rev. Real Acad. de Ciencias Exactas, Físicas y Naturales (Madrid). Serie A. Matemáticas, 113 (2019), 1141–1158. Online: https://doi.org/10.1007/s13398-018-0536-6. ISSN 1578-7303.
- [105] (with J. Benedikt, P. Girg, and L. Kotrla) The strong comparison principle in parabolic problems with the p-Laplacian in a domain, Appl. Math. Letters, **98** (2019), 365–373. Online: https://doi.org/10.1016/j.aml.2019.06.035.

- [106] (with J. Giacomoni) A p(x)-Laplacian Extension of the Díaz-Saa Inequality and Some Applications, Proc. Royal Soc. Edinburgh, **150 A**(1) (2020), 205–232, Online: https://doi.org/10.1017/prm.2018.91.
- [107] (with P. Drábek) Travelling waves in the Fisher-KPP equation with nonlinear degenerate or singular diffusion, Applied Mathematics & Optimization, 84(2) (2021), 1185–1208. Online: doi: https://doi.org/10.1007/s00245-020-09674-3.
- [108] (with F. Baustian) Space-Time Analyticity of Weak Solutions to Semilinear Parabolic Systems with Variable Coefficients, Electronic J. Diff. Equations, 2021, Special Issue 01 (2021), pp. 23–89. In "Special issue in honor of Alan C. Lazer". ISSN: 1072-6691. Online: URL: http://ejde.math.txstate.edu.
 Preprint, arXiv: 2101.00112v1 [math.AR], 31st December 2020 arxiv.org.
- [109] (with F. Brock) Symmetry and Stability of Non-negative Solutions to Degenerate Elliptic Equations in a Ball, Proc. Amer. Math. Soc., 150(4) (2022), 1559–1575.
- [110] (with B. Alziary) On the boundary conditions in the Heston model with stochastic volatility: An approach by PDEs, submitted for publication.
 Preprint, arXiv: 2004.00444v1 [math.AR], 01st April 2020 arxiv.org.
- [111] (with J. Benedikt, P. Girg, and L. Kotrla) On the Strong Comparison Principle for Degenerate Elliptic Problems with Convection, submitted for publication. Preprint, arXiv: 2004.00444v1 [math.AR], 01st April 2020 - arxiv.org.
- [112] (with B. Alziary) Monotone methods in counterparty risk models with nonlinear Black-Scholes-type equations, submitted for publication. Preprint, arXiv: 2203.03028v1 [math.AP], 06th March 2022 - arxiv.org.
- [113] Nonlinear diffusion (with the p-Laplacian) in a Black-Scholes-type model, Electronic J. Diff. Equations, **2022**, Special Issue ?? (2022), pp. ???—???, submitted for publication. In "Special issue in honor of John W. Neuberger". ISSN: 1072-6691.

 Online: URL: http://ejde.math.txstate.edu.

BOOKS

- [1] (with P. Drábek and P. Krejčí) "Nonlinear Differential Equations". Lectures at the 1998 Summer School, 1998, Prague, Czech Republic. Chapman & Hall/CRC Research Notes in Mathematics, Vol. 404, CRC Press LLC, Boca Raton, FL, U.S.A., 1999. (Formerly Pitman Mathematics Series.)
- [2] (with J. Roßmann and G. Wildenhain) "The Maz'ya Anniversary Collection", Vol. 1 and 2. Proceedings of the Rostock Conference on Functional Analysis, Partial Differential Equations and Applications, Aug. 31 Sept. 4, 1998, Rostock, Germany. Operator Theory, Advances and Applications, Vol. 109 and 110, Birkhäuser, Basel and Boston, 1999.

TEN SELECTED ARTICLES from the Publication List

- [1] Invariant 2-tori in the time-dependent Ginzburg-Landau equation, Nonlinearity, 5(2) (1992), 289–321.
- [2] A construction of stable subharmonic orbits in monotone time-periodic dynamical systems, Monatshefte für Mathematik, 115 (1993), 215–244.
- [3] (with P. Bollerman, A. Doelman, A. van Harten and E. S. Titi) Analyticity of essentially bounded solutions to semilinear parabolic systems and validity of the Ginzburg-Landau equation, SIAM J. Math. Anal., 27(2) (1996), 424–448.
- [4] (with M. Cuesta) A Strong Comparison Principle for Positive Solutions of Degenerate Elliptic Equations, Differential and Integral Equations, 13(4–6) (2000), 721–746.
- [5] Stabilization of positive solutions for analytic gradient-like systems, Discrete and Continuous Dynamical Systems, **6**(4) (2000), 947–973.
- [6] (with P. Drábek, P. Girg, and M. Ulm) The Fredholm alternative for the p-Laplacian: bifurcation from infinity, existence and multiplicity of solutions, Indiana Univ. Math. J., 53(2) (2004), 433–482.
- [7] (with B. Alziary and J. Fleckinger) Ground-state positivity, negativity, and compactness for a Schrödinger operator in \mathbb{R}^N , J. Funct. Anal., **245**(1) (2007), 213–248. Online: doi: 10.1016/j.jfa.2006.12.007.
- [8] (with J. Giacomoni and I. Schindler) Sobolev versus Hölder local minimizers and existence of multiple solutions for a singular quasilinear equation, Annali Scuola Norm. Sup. Pisa, Ser. V, 6(1) (2007), 117–158.
- [9] (with B. Alziary) Intrinsic ultracontractivity of a Schrödinger semigroup in \mathbb{R}^N , J. Funct. Anal., **256**(12) (2009), 4095–4127. Online: doi: 10.1016/j.jfa.2009.02.013.
- [10] Space-time analyticity of weak solutions to linear parabolic systems with variable coefficients, J. Funct. Anal., **263**(1) (2012), 50–88. Online: doi: 10.1016/j.jfa.2012.04.008.