

Citations¹ until February 2018

Nils Ackermann

My Cited Works

- [1] N. Ackermann, *Multiple single-peaked solutions of a class of semilinear Neumann problems via the category of the domain boundary*, Calc. Var. Partial Differential Equations, **7** (1998), no. 3, 263–292, DOI: 10.1007/s005260050109.
- [2] N. Ackermann, *On the multiplicity of sign changing solutions to nonlinear periodic Schrödinger equations*, in H. Brezis, K. C. Chang, S. J. Li, and P. Rabinowitz, editors, Topological methods, variational methods and their applications (Taiyuan, 2002), pp. 1–9, World Sci. Publishing, River Edge, NJ, 2003, URL: <http://www.worldscibooks.com/mathematics/5187.html>.
- [3] N. Ackermann, *On a periodic Schrödinger equation with nonlocal superlinear part*, Math. Z. **248** (2004), no. 2, 423–443, DOI: 10.1007/s00209-004-0663-y.
- [4] N. Ackermann, *A Cauchy-Schwarz type inequality for bilinear integrals on positive measures*, Proc. Amer. Math. Soc. **133** (2005), no. 9, 2647–2656 (electronic), DOI: 10.1090/S0002-9939-05-08082-2.
- [5] N. Ackermann and T. Weth, *Multibump solutions of nonlinear periodic Schrödinger equations in a degenerate setting*, Commun. Contemp. Math. **7** (2005), no. 3, 269–298, DOI: 10.1142/S0219199705001763.
- [6] N. Ackermann and T. Bartsch, *Superstable manifolds of semilinear parabolic problems*, J. Dynam. Differential Equations, **17** (2005), no. 1, 115–173, DOI: 10.1007/s10884-005-3144-z.
- [7] N. Ackermann, *A nonlinear superposition principle and multibump solutions of periodic Schrödinger equations*, J. Funct. Anal. **234** (2006), no. 2, 277–320, DOI: 10.1016/j.jfa.2005.11.010.
- [8] N. Ackermann, T. Bartsch, and P. Kaplický, *An invariant set generated by the domain topology for parabolic semiflows with small diffusion*, Discrete Contin. Dyn. Syst. **18** (2007), no. 4, 613–626, DOI: 10.3934/dcds.2007.18.613.
- [9] N. Ackermann, T. Bartsch, P. Kaplický, and P. Quittner, *A priori bounds, nodal equilibria and connecting orbits in indefinite superlinear parabolic problems*, Trans. Amer. Math. Soc. **360** (2008), no. 7, 3493–3539, DOI: 10.1090/S0002-9947-08-04404-8.

¹Citations were collected using data from *Google Scholar*TM, *Scopus*[®], *MathSciNet*[®], and *Web of Science*TM.

- [10] N. Ackermann, *Solution set splitting at low energy levels in Schrödinger equations with periodic and symmetric potential*, J. Differential Equations, **246** (2009), no. 4, 1470–1499, DOI: 10.1016/j.jde.2008.10.016.
- [11] N. Ackermann, *Long-time dynamics in semilinear parabolic problems with autocatalysis*, in Y. Du, H. Ishii, and W.-Y. Lin, editors, Recent progress on reaction-diffusion systems and viscosity solutions, pp. 1–30, World Sci. Publ., Hackensack, NJ, 2009, URL: <http://www.worldscibooks.com/mathematics/7016.html>.
- [12] N. Ackermann, M. Clapp, and F. Pacella, *Self-focusing multibump standing waves in expanding waveguides*, Milan J. Math. **79** (2011), no. 1, 221–232, DOI: 10.1007/s00032-011-0147-6.
- [13] N. Ackermann, M. Clapp, and F. Pacella, *Alternating sign multibump solutions of nonlinear elliptic equations in expanding tubular domains*, Comm. Partial Differential Equations, **38** (2013), no. 5, 751–779, DOI: 10.1080/03605302.2013.771657, arXiv: 1210.4229 [math.AP].
- [14] N. Ackermann and A. Szulkin, *A concentration phenomenon for semilinear elliptic equations*, Arch. Ration. Mech. Anal. **207** (2013), no. 3, 1075–1089, DOI: 10.1007/s00205-012-0589-1, arXiv: 1206.3196 [math.AP].
- [15] N. Ackermann, M. Clapp, and A. Pistoia, *Boundary clustered layers near the higher critical exponents*, J. Differential Equations, **254** (2013), no. 10, 4168–4193, DOI: 10.1016/j.jde.2013.02.015, arXiv: 1211.2364 [math.AP].
- [16] N. Ackermann, *Uniform continuity and Brézis-Lieb type splitting for superposition operators in Sobolev space*, Adv. Nonlinear Anal. (2016), DOI: 10.1515/anona-2016-0123, arXiv: 1111.4199 [math.FA].
- [17] N. Ackermann, A. Cano, and E. Hernández-Martínez, *Spectral density estimates with partial symmetries and an application to Bahri-Lions-type results*, Calc. Var. Partial Differential Equations, **56** (2017), no. 1, Art. 6, 19, DOI: 10.1007/s00526-016-1107-3.

Citations for [1]

- [1] M. Clapp and G. Izquierdo, *Multiple positive symmetric solutions of a singularly perturbed elliptic equation*, Topol. Methods Nonlinear Anal. **18** (2001), no. 1, 17–39.
- [2] J. Chabrowski and E. Tonkes, *On the nonlinear Neumann problem with critical and supercritical nonlinearities*, Dissertationes Math. (Rozprawy Mat.) **417** (2003), 59.
- [3] N. Shioji, *Multiple sign-changing solutions for a semilinear Neumann problem and the topology of the configuration space of the domain boundary*, Calc. Var. Partial Differential Equations, **38** (2010), no. 3, 317–356.

- [4] N. Shioji, *Existence of multiple sign-changing solutions for an asymptotically linear elliptic problem and the topology of the configuration space of the domain*, Adv. Differential Equations, **17** (2012), no. 5–6, 471–510.

Citations for [2]

- [1] N. Hirano and N. Shioji, *A multiplicity result including sign-changing solutions for a nonlinear elliptic problem in \mathbf{R}^N* , Adv. Nonlinear Stud. **7** (2007), no. 4, 513–532.

Citations for [3]

- [1] A. Pankov, *Periodic nonlinear Schrödinger equation with application to photonic crystals*, Milan J. Math. **73** (2005), 259–287.
- [2] Y. Ding and C. Lee, *Multiple solutions of Schrödinger equations with indefinite linear part and super or asymptotically linear terms*, J. Differential Equations, **222** (2006), no. 1, 137–163.
- [3] Y. Ding, *Variational methods for strongly indefinite problems*, vol. 7 of *Interdisciplinary Mathematical Sciences*, World Scientific Publishing Co. Pte. Ltd., Hackensack, NJ, 2007, pp. viii+168.
- [4] Y. Ding and L. Jeanjean, *Homoclinic orbits for a nonperiodic Hamiltonian system*, J. Differential Equations, **237** (2007), no. 2, 473–490.
- [5] Y. Ding, S. Luan, and M. Willem, *Solutions of a system of diffusion equations*, J. Fixed Point Theory Appl. **2** (2007), no. 1, 117–139.
- [6] Y. Ding and A. Szulkin, *Bound states for semilinear Schrödinger equations with sign-changing potential*, Calc. Var. Partial Differential Equations, **29** (2007), no. 3, 397–419.
- [7] A. Pankov, *Lecture notes on Schrödinger equations*, Contemporary Mathematical Studies, Nova Science Publishers Inc., New York, 2007, pp. xii+187.
- [8] Y. Ding and B. Ruf, *Solutions of a nonlinear Dirac equation with external fields*, Arch. Ration. Mech. Anal. **190** (2008), no. 1, 57–82.
- [9] X. Fan, *$p(x)$ -Laplacian equations in \mathbb{R}^N with periodic data and nonperiodic perturbations*, J. Math. Anal. Appl. **341** (2008), no. 1, 103–119, DOI: 10.1016/j.jmaa.2007.10.006.
- [10] F. Zhao, L. Zhao, and Y. Ding, *Existence and multiplicity of solutions for a nonperiodic Schrödinger equation*, Nonlinear Anal. **69** (2008), no. 11, 3671–3678.

- [11] F. Zhao, L. Zhao, and Y. Ding, *Multiple solutions for asymptotically linear elliptic systems*, NoDEA Nonlinear Differential Equations Appl. **15** (2008), no. 6, 673–688.
- [12] M. Macrì and M. Nolasco, *Stationary solutions for the non-linear Hartree equation with a slowly varying potential*, NoDEA Nonlinear Differential Equations Appl. (2009), DOI: 10.1007/s00030-009-0030-0, In Press, Corrected Proof, Available online 30 June 2009.
- [13] F. Zhao and Y. Ding, *Infinitely many solutions for a class of nonlinear Dirac equations without symmetry*, Nonlinear Anal. **70** (2009), no. 2, 921–935.
- [14] F. Zhao and Y. Ding, *On a diffusion system with bounded potential*, Discrete Contin. Dyn. Syst. **23** (2009), no. 3, 1073–1086.
- [15] F. Zhao, L. Zhao, and Y. Ding, *A note on superlinear Hamiltonian elliptic systems*, J. Math. Phys. **50** (2009), no. 11, 112702, DOI: 10.1063/1.3256120.
- [16] H. Shi, *Gap solitons in periodic discrete Schrödinger equations with nonlinearity*, Acta Appl. Math. **109** (2010), no. 3, 1065–1075, DOI: 10.1007/s10440-008-9360-x.
- [17] H. Shi and H. Zhang, *Existence of gap solitons in periodic discrete nonlinear Schrödinger equations*, J. Math. Anal. Appl. **361** (2010), no. 2, 411–419, DOI: 10.1016/j.jmaa.2009.07.026.
- [18] J. Wang, J. Xu, and F. Zhang, *Existence and multiplicity of solutions for asymptotically Hamiltonian elliptic systems in \mathbb{R}^N* , J. Math. Anal. Appl. **367** (2010), no. 1, 193–203, DOI: doi:10.1016/j.jmaa.2010.01.002.
- [19] F. Zhao and Y. Ding, *On Hamiltonian elliptic systems with periodic or non-periodic potentials*, J. Differential Equations, **249** (2010), no. 12, 2964–2985, DOI: 10.1016/j.jde.2010.09.014.
- [20] F. Zhao, L. Zhao, and Y. Ding, *Infinitely many solutions for asymptotically linear periodic Hamiltonian elliptic systems*, ESAIM Control Optim. Calc. Var. **16** (2010), no. 1, 77–91, DOI: 10.1051/cocv:2008064.
- [21] J. Wang, J. Xu, and F. Zhang, *The existence of solutions for superquadratic Hamiltonian elliptic systems on \mathbb{R}^N* , Nonlin. Anal. **74** (2011), no. 3, 909–921, DOI: 10.1016/j.na.2010.09.044.
- [22] R. Zhang, J. Chen, and F. Zhao, *Multiple solutions for superlinear elliptic systems of Hamiltonian type*, Discrete Contin. Dyn. Syst. **30** (2011), no. 4, 1249–1262, DOI: 10.3934/dcds.2011.30.1249.
- [23] M. J. Alves, R. B. Assunção, P. C. Carrião, and O. H. Miyagaki, *Existence of bound state solutions for degenerate singular perturbation problems with sign-changing potentials*, Electron. J. Differential Equations (2012), no. 109, 1–23, URL: <http://www.emis.de/journals/EJDE/Volumes/2012/109/abstr.html>.
- [24] G. Chen and Y. Zheng, *Solitary waves for the Klein-Gordon-Dirac model*, J. Differential Equations, **253** (2012), no. 7, 2263–2284, DOI: 10.1016/j.jde.2012.06.015.

- [25] S. Cingolani, M. Clapp, and S. Secchi, *Multiple solutions to a magnetic nonlinear Choquard equation*, *Z. Angew. Math. Phys.* **63** (2012), no. 2, 233–248, DOI: 10.1007/s00033-011-0166-8, cited By (since 1996) 0.
- [26] Y. Ding and B. Ruf, *Existence and concentration of semiclassical solutions for dirac equations with critical nonlinearities*, *SIAM Journal on Mathematical Analysis*, **44** (2012), no. 6, 3755–3785.
- [27] Y. Ding and X. Liu, *Semi-classical limits of ground states of a nonlinear Dirac equation*, *J. Differential Equations*, **252** (2012), no. 9, 4962–4987, DOI: 10.1016/j.jde.2012.01.023.
- [28] J. Wang, L. Tian, J. Xu, and F. Zhang, *Existence and nonexistence of the ground state solutions for nonlinear Schrödinger equations with nonperiodic nonlinearities*, *Math. Nachr.* **285** (2012), no. 11-12, 1543–1562, DOI: 10.1002/mana.201100170.
- [29] M. Yang, F. Zhao, and Y. Ding, *On the existence of solutions for Schrödinger-Maxwell systems in \mathbb{R}^3* , *Rocky Mountain Journal of Mathematics*, **42** (2012), no. 5, 1655–1674.
- [30] L. Zhao and F. Zhao, *On ground state solutions for superlinear Hamiltonian elliptic systems*, *Z. Angew. Math. Phys.* (2012), 1–16.
- [31] G. Chen and Y. Zheng, *Stationary solutions of non-autonomous Maxwell-dirac systems*, *Journal of Differential Equations* (2013), 1–25, DOI: 10.1016/j.jde.2013.05.002.
- [32] S. Cingolani, M. Clapp, and S. Secchi, *Intertwining semiclassical solutions to a Schrödinger-Newton system*, *Discrete Contin. Dyn. Syst. Ser. S*, **6** (2013), no. 4, 891–908, arXiv: 1110.4213 [math.AP].
- [33] S. Cingolani and S. Secchi, *Multiple S^1 -orbits for the Schrödinger-Newton system*, *Differential Integral Equations*, **26** (2013), no. 9/10, 867–884.
- [34] M. Clapp and D. Salazar, *Positive and sign changing solutions to a nonlinear Choquard equation*, *J. Math. Anal. Appl.* **407** (2013), no. 1, 1–15, DOI: 10.1016/j.jmaa.2013.04.081.
- [35] Y. Ding and X. Liu, *Semiclassical solutions of Schrödinger equations with magnetic fields and critical nonlinearities*, English, *Manuscripta Mathematica*, **140** (2013), 51–82, DOI: 10.1007/s00229-011-0530-1.
- [36] Y. Lei, *On the regularity of positive solutions of a class of Choquard type equations*, English, *Math. Z.* **273** (2013), no. 3-4, 883–905, DOI: 10.1007/s00209-012-1036-6.
- [37] G. Li and C. Wang, *Multiple solutions for a semilinear elliptic system in \mathbb{R}^N* , *Math. Methods Appl. Sci.* (2013), 1–11, DOI: 10.1002/mma.2764.
- [38] J. Sun and S. Ma, *Multiple periodic solutions for lattice dynamical systems with superquadratic potentials*, *J. Differential Equations*, **255** (2013), no. 8, 2534–2563, DOI: 10.1016/j.jde.2013.07.010.

- [39] J. Sun, J. Chu, and Z. Feng, *Homoclinic orbits for first order periodic Hamiltonian systems with spectrum point zero*, Discrete Contin. Dyn. Syst. **33** (2013), no. 8, 3807–3824, DOI: 10.3934/dcds.2013.33.3807.
- [40] L. Xiao, J. Wang, M. Fan, and F. Zhang, *Existence and multiplicity of semiclassical solutions for asymptotically Hamiltonian elliptic systems*, J. Math. Anal. Appl. **399** (2013), no. 1, 340–351, DOI: 10.1016/j.jmaa.2012.10.010.
- [41] M. Yang and Y. Ding, *Existence of solutions for singularly perturbed Schrödinger equations with nonlocal part*, Commun. Pure Appl. Anal. **12** (2013), no. 2, 771–783, DOI: 10.3934/cpaa.2013.12.771.
- [42] M. Yang and Y. Wei, *Existence and multiplicity of solutions for nonlinear Schrödinger equations with magnetic field and hartree type nonlinearities*, J. Math. Anal. Appl. (2013), 1–20, DOI: 10.1016/j.jmaa.2013.02.062.
- [43] C. O. Alves and M. Yang, *Existence of semiclassical ground state solutions for a generalized Choquard equation*, J. Differential Equations, **257** (2014), no. 11, 4133–4164, DOI: 10.1016/j.jde.2014.08.004.
- [44] C. O. Alves and M. Yang, *Multiplicity and concentration of solutions for a quasilinear Choquard equation*, Journal of Mathematical Physics, **55** (2014), no. 6, DOI: 10.1063/1.4884301.
- [45] X. G. Li, J. Zhang, and Y. H. Wu, *Instability of standing wave for the Klein-Gordon-Hartree equation*, Acta Math. Sin. (Engl. Ser.) **30** (2014), no. 5, 861–871, DOI: 10.1007/s10114-014-2399-x.
- [46] D. Lü, *A note on Kirchhoff-type equations with Hartree-type nonlinearities*, Nonlinear Anal. **99** (2014), 35–48, DOI: 10.1016/j.na.2013.12.022.
- [47] D. C. Salazar Lozano, *Elliptic Problems with Local and Nonlocal Nonlinearities in Exterior Domains*, UNAM, Coordinación de Estudios de Posgrado, Mexico, 2014, URL: http://www.posgrado.unam.mx/publicaciones/ant_col-posg/51_Elliptic.pdf.
- [48] D. Salazar, *Vortex-type solutions to a magnetic nonlinear Choquard equation*, Z. Angew. Math. Phys. (2014), 1–13, DOI: 10.1007/s00033-014-0412-y.
- [49] M. Yang and Y. Wei, *Existence of solutions for singularly perturbed Hamiltonian elliptic systems with nonlocal nonlinearities*, Topol. Methods Nonlinear Anal. **43** (2014), no. 2, 385–402.
- [50] S. Chen and L. Xiao, *Existence of a nontrivial solution for a strongly indefinite periodic Choquard system*, Calc. Var. Partial Differential Equations, **54** (2015), no. 1, 599–614, DOI: 10.1007/s00526-014-0797-7, arXiv: 1404.2232 [math.AP].
- [51] S. Cingolani and S. Secchi, *Ground states for the pseudo-relativistic Hartree equation with external potential*, Proc. Roy. Soc. Edinburgh Sect. A, **145** (2015), no. 1, 73–90, DOI: 10.1017/S0308210513000450, arXiv: 1402.6479 [math.AP].

- [52] Z. Liu and S. Guo, *Existence of positive ground state solutions for Kirchhoff type problems*, *Nonlinear Anal.* **120** (2015), 1–13, DOI: 10.1016/j.na.2014.12.008.
- [53] D. Lü, *Existence and concentration of solutions for a nonlinear Choquard equation*, *Mediterr. J. Math.* **3** (2015), no. 12, 839–850, DOI: 10.1007/s00009-014-0428-8.
- [54] J. Sun and S. Ma, *Multiple solutions for discrete periodic nonlinear Schrödinger equations*, *J. Math. Phys.* **56** (2015), no. 2, 022110, DOI: 10.1063/1.4909527.
- [55] T. Xie, L. Xiao, and J. Wang, *Existence of multiple positive solutions for Choquard equation with perturbation*, *Adv. Math. Phys.* (2015), Art. ID 760157, 10, DOI: 10.1155/2015/760157.
- [56] J. Zhang, X. Tang, and W. Zhang, *Existence and multiplicity of stationary solutions for a class of Maxwell-Dirac system*, *Nonlinear Anal.* **127** (2015), 298–311, DOI: 10.1016/j.na.2015.07.010.
- [57] J. Zhang, X. Tang, and W. Zhang, *Ground state solutions for a class of nonlinear Maxwell-Dirac system*, *Topol. Methods Nonlinear Anal.* **46** (2015), no. 2, 785–798, DOI: 10.12775/TMNA.2015.068.
- [58] C. O. Alves, A. B. Nóbrega, and M. Yang, *Multi-bump solutions for Choquard equation with deepening potential well*, *Calc. Var. Partial Differential Equations*, **55** (2016), no. 3, 55:48, DOI: 10.1007/s00526-016-0984-9, arXiv: 1510.01409 [math.AP].
- [59] C. O. Alves, G. M. Figueiredo, and M. Yang, *Multiple semiclassical solutions for a nonlinear Choquard equation with magnetic field*, *Asymptot. Anal.* **96** (2016), no. 2, 135–159, DOI: 10.3233/ASY-151337.
- [60] C. O. Alves and M. Yang, *Investigating the multiplicity and concentration behaviour of solutions for a quasi-linear Choquard equation via the penalization method*, *Proc. Roy. Soc. Edinburgh Sect. A*, **146** (2016), no. 01, 23–58, DOI: 10.1017/S0308210515000311.
- [61] S. Cingolani and T. Weth, *On the planar Schrödinger-Poisson system*, *Ann. Inst. H. Poincaré Anal. Non Linéaire*, **33** (2016), no. 1, 169–197, DOI: 10.1016/j.anihpc.2014.09.008.
- [62] Y. Ding and X. Liu, *Periodic solutions of an asymptotically linear Dirac equation*, *Ann. Mat. Pura Appl.* (2016), 1–19, DOI: 10.1007/s10231-016-0592-5.
- [63] D. Lü, *Existence and concentration behavior of ground state solutions for magnetic nonlinear Choquard equations*, *Commun. Pure Appl. Anal.* **15** (2016), no. 5, 1781–1796.
- [64] D. Lü, *Existence and concentration of ground state solutions for singularly perturbed nonlocal elliptic problems*, *Monatsh. Math.* (2016), 1–24, DOI: 10.1007/s00605-016-0889-x.

- [65] C. Mercuri, V. Moroz, and J. Van Schaftingen, *Groundstates and radial solutions to nonlinear Schrödinger-Poisson-Slater equations at the critical frequency*, Calc. Var. Partial Differential Equations, **55** (2016), no. 6, Paper No. 146, 58, DOI: 10.1007/s00526-016-1079-3.
- [66] V. Moroz and J. Van Schaftingen, *A guide to the Choquard equation*, J. Fixed Point Theory Appl. (2016), 1–41, DOI: 10.1007/s11784-016-0373-1, arXiv: 1606.02158 [math.AP].
- [67] A. Nóbrega, *Multiplicidade de soluções do tipo multi-bump para problemas elípticos*, PhD thesis, Universidade Federal da Paraíba Universidade Federal de Campina Grande, 2016, URL: <http://tede.biblioteca.ufpb.br/handle/tede/9250>.
- [68] T. Wang, *Existence and nonexistence of nontrivial solutions for Choquard type equations*, Electron. J. Differential Equations, **2016** (2016), no. 3, 1–17, URL: <http://ejde.math.txstate.edu/Volumes/2016/03/abstr.html>.
- [69] T. Wang and T. Yi, *Uniqueness of positive solutions of the Choquard type equations*, Applicable Analysis (2016), 1–9, DOI: 10.1080/00036811.2016.1138473.
- [70] J. Zhang, X. Li, Y. Wu, and L. Caccetta, *Stability of standing waves for the Klein-Gordon-Hartree equation*, Applicable Analysis, **95** (2016), no. 5, 1000–1012, DOI: 10.1080/00036811.2015.1047832.
- [71] W. Zhang, J. Zhang, and X. Xie, *On ground states for the Schrödinger-Poisson system with periodic potentials*, Indian J. Pure Appl. Math. **47** (2016), no. 3, 449–470, DOI: 10.1007/s13226-016-0177-4.
- [72] C. O. Alves, D. Cassani, C. Tarsi, and M. Yang, *Existence and concentration of ground state solutions for a critical nonlocal Schrödinger equation in R^2* , J. Differential Equations, **261** (2017), no. 3, 1933–1972, DOI: 10.1016/j.jde.2016.04.021.
- [73] P. Belchior, H. Bueno, O. H. Miyagaki, and G. A. Pereira, *Remarks about a fractional Choquard equation: Ground state, regularity and polynomial decay*, Nonlinear Analysis, **164** (November 2017), 38–53, DOI: 10.1016/j.na.2017.08.005.
- [74] Y. Ding and J. Wei, *Multiplicity of semiclassical solutions to nonlinear Schrödinger equations*, J. Fixed Point Theory Appl. (2017), 1–24, DOI: 10.1007/s11784-017-0410-8.
- [75] F. Gao and M. Yang, *A strongly indefinite Choquard equation with critical exponent due to the Hardy-Littlewood-Sobolev inequality*, Commun. Contemp. Math. (April 2017), DOI: 10.1142/S0219199717500377.
- [76] F. Gao and M. Yang, *On nonlocal Choquard equations with Hardy-Littlewood-Sobolev critical exponents*, J. Math. Anal. Appl. **448** (2017), no. 2, 1006–1041, DOI: 10.1016/j.jmaa.2016.11.015.
- [77] T. Wang, *Existence of positive ground-state solution for Choquard-type equations*, Mediterr. J. Math. **14** (2017), no. 1, 26, DOI: 10.1007/s00009-016-0802-9.

- [78] J. Zhang, W. Zhang, and X. Tang, *Existence and multiplicity of solutions for nonlinear Dirac-Poisson systems*, Electronic Journal of Differential Equations, **2017** (2017), no. 91, 1–17.
- [79] Y. Ding and X. Liu, *Periodic solutions of superlinear Dirac equations with perturbations from symmetry*, Journal of Mathematical Physics, **59** (January 2018), no. 1, 011504, DOI: 10.1063/1.5021688.
- [80] S. Secchi, *Existence of solutions for a semirelativistic Hartree equation with unbounded potentials*, Forum Mathematicum, **30** (January 2018), no. 1, 129–140, DOI: 10.1515/forum-2017-0006, arXiv: 1701.02885 [math.AP].

Citations for [4]

- [1] L. Tuo, *Generalizations of Cauchy-Schwarz inequality in unitary spaces*, J. Inequal. Appl. (2015), 2015:201, 6, DOI: 10.1186/s13660-015-0719-z.
- [2] J. Zhang, X. Tang, and W. Zhang, *Existence and multiplicity of stationary solutions for a class of Maxwell-Dirac system*, Nonlinear Anal. **127** (2015), 298–311, DOI: 10.1016/j.na.2015.07.010.
- [3] J. Zhang, X. Tang, and W. Zhang, *Ground state solutions for a class of nonlinear Maxwell-Dirac system*, Topol. Methods Nonlinear Anal. **46** (2015), no. 2, 785–798, DOI: 10.12775/TMNA.2015.068.
- [4] A. Slimene and E. Zagrouba, *A thermodynamic and biologically inspired kernel similarity method*, in 2016 IEEE 28th International Conference on Tools with Artificial Intelligence (ICTAI), pp. 730–737, November 2016, DOI: 10.1109/ICTAI.2016.0115.
- [5] A. Slimene and E. Zagrouba, *Overlapping area hyperspheres for kernel-based similarity method*, Pattern Analysis and Applications (2017), 1–17, DOI: 10.1007/s10044-017-0604-0.
- [6] J. Zhang, W. Zhang, and X. Tang, *Existence and multiplicity of solutions for nonlinear Dirac-Poisson systems*, Electronic Journal of Differential Equations, **2017** (2017), no. 91, 1–17.

Citations for [5]

- [1] Z. Liu and Z.-Q. Wang, *Multi-bump type nodal solutions having a prescribed number of nodal domains. I*, Ann. Inst. H. Poincaré Anal. Non Linéaire, **22** (2005), no. 5, 597–608.
- [2] Z. Liu and Z.-Q. Wang, *Multi-bump type nodal solutions having a prescribed number of nodal domains. II*, Ann. Inst. H. Poincaré Anal. Non Linéaire, **22** (2005), no. 5, 609–631.

- [3] W. Zou and M. Schechter, *Critical point theory and its applications*, Springer, New York, 2006, pp. xii+318.
- [4] S. Chen, *Multi-bump solutions for a strongly indefinite semilinear Schrödinger equation without symmetry or convexity assumptions*, *Nonlinear Anal.* **68** (2008), no. 10, 3067–3102.
- [5] W. Zou, *Sign-changing critical point theory*, Springer, New York, 2008, pp. xiv+278.
- [6] G. Arioli, A. Szulkin, and W. Zou, *Multibump solutions and critical groups*, *Trans. Amer. Math. Soc.* **361** (2009), no. 6, 3159–3187, DOI: 10.1090/S0002-9947-09-04669-8.
- [7] P. M. Girão and J. M. Gomes, *Multi-bump nodal solutions for an indefinite non-homogeneous elliptic problem*, *Proc. Roy. Soc. Edinburgh Sect. A*, **139** (2009), no. 4, 797–817, DOI: 10.1017/S0308210508000474.
- [8] P. M. Girão and J. M. Gomes, *Multibump nodal solutions for an indefinite superlinear elliptic problem*, *J. Differential Equations*, **247** (2009), no. 4, 1001–1012, DOI: 10.1016/j.jde.2009.04.018.
- [9] L. Lin, Z. Liu, and S. Chen, *Multi-bump solutions for a semilinear Schrödinger equation*, *Indiana Univ. Math. J.* **58** (2009), no. 4, 1659–1689, DOI: 10.1512/iumj.2009.58.3611.
- [10] J. Wang, *Energy bound for sign changing solutions of an asymptotically linear elliptic equation in \mathbb{R}^N* , *Nonlinear Anal.* **74** (2011), no. 13, 4474–4480, DOI: 10.1016/j.na.2011.04.011.
- [11] S. Ma and Z.-Q. Wang, *Multibump solutions for discrete periodic nonlinear Schrödinger equations*, English, *Z. Angew. Math. Phys.* **64** (2013), no. 5, 1413–1442, DOI: 10.1007/s00033-012-0295-8.
- [12] H. Fang and J. Wang, *Existence of positive solutions for a semilinear Schrödinger equation in \mathbb{R}^N* , *Bound. Value Probl.* **2015** (2015), no. 1, DOI: 10.1186/s13661-014-0270-8.
- [13] M. Ghimenti, V. Moroz, and J. Van Schaftingen, *Least action nodal solutions for the quadratic Choquard equation* (2015), arXiv: 1511.04779 [math.AP], Preprint.
- [14] J. Zhang and W. Zou, *Solutions concentrating around the saddle points of the potential for critical Schrödinger equations*, *Calc. Var. Partial Differential Equations*, **54** (2015), no. 4, 4119–4142, DOI: 10.1007/s00526-015-0933-z.
- [15] J. Sun and S. Ma, *Ground state solutions for some Schrödinger-Poisson systems with periodic potentials*, *J. Differential Equations*, **260** (2016), no. 3, 2119–2149, DOI: 10.1016/j.jde.2015.09.057.
- [16] G. Evéquoz, *On the periodic and asymptotically periodic nonlinear Helmholtz equation*, *Nonlinear Anal.* **152** (2017), 88–101, DOI: 10.1016/j.na.2016.12.012, arXiv: 1510.08347 [math.AP].

- [17] X. Tang and S. Chen, *Ground state solutions of Nehari-Pohozaev type for Schrödinger-Poisson problems with general potentials*, *Discrete & Continuous Dynamical Systems-A*, **37** (2017), no. 9, 4973–5002, DOI: 10.3934/dcds.2017214.
- [18] M. Clapp and Y. Fernández, *Sign changing solutions to a partially periodic nonlinear Schrödinger equation in domains with unbounded boundary*, *J. Fixed Point Theory Appl.* **20** (February 2018), no. 1, 48, DOI: 10.1007/s11784-018-0521-x.
- [19] Z. Gao, X. Tang, and S. Chen, *Existence of ground state solutions of Nehari-pohozaev type for fractional Schrödinger-Poisson systems with a general potential*, *Comput. Math. Appl.* **75** (January 2018), no. 2, 614–631, DOI: 10.1016/j.camwa.2017.09.038.

Citations for [6]

- [1] F. Gazzola and T. Weth, *Finite time blow-up and global solutions for semilinear parabolic equations with initial data at high energy level*, *Differential Integral Equations*, **18** (2005), no. 9, 961–990.
- [2] P. Quittner, *Complete and energy blow-up in superlinear parabolic problems*, in *Recent advances in elliptic and parabolic problems*, pp. 217–229, World Sci. Publ., Hackensack, NJ, 2005.
- [3] P. Quittner and F. Simondon, *A priori bounds and complete blow-up of positive solutions of indefinite superlinear parabolic problems*, *J. Math. Anal. Appl.* **304** (2005), no. 2, 614–631.
- [4] P. Quittner and P. Souplet, *Superlinear parabolic problems*, Birkhäuser Advanced Texts: Basler Lehrbücher. [Birkhäuser Advanced Texts: Basel Textbooks], Birkhäuser Verlag, Basel, 2007, pp. xii+584, Blow-up, global existence and steady states.
- [5] S. Schulz, *Superlinear Dynamics of a Scalar Parabolic Equation*, PhD thesis, University of Giessen, Germany, 2007.
- [6] P. Quittner, *The decay of global solutions of a semilinear heat equation*, *Discrete Contin. Dyn. Syst.* **21** (2008), no. 1, 307–318.
- [7] X. Li and S. Ruan, *Attractors for non-autonomous parabolic problems with singular initial data*, *J. Differential Equations*, **251** (2011), no. 3, 728–757, DOI: 10.1016/j.jde.2011.05.015.
- [8] A. Jänig, *The conley index along heteroclinic trajectories of reaction-diffusion equations*, *J. Differential Equations*, **252** (2012), no. 8, 4410–4454, DOI: 10.1016/j.jde.2012.01.012.
- [9] A. S. De Fuentes, *Partial Symmetries of Solutions to Nonlinear Elliptic and Parabolic Problems in Bounded Radial Domains*, PhD thesis, Goethe-Universität Frankfurt am Main, Germany, 2014.

- [10] J. Harada, *Blow-up sets for a complex-valued semilinear heat equation*, Journal of Evolution Equations (2014), 1–19, DOI: 10.1007/s00028-016-0341-7, arXiv: 1412.2856 [math.AP].
- [11] A. Jänig, *Conley index orientations*, Topol. Methods Nonlinear Anal. **43** (2014), no. 1, 171–214.
- [12] J. Harada, *Blowup profile for a complex valued semilinear heat equation*, J. Funct. Anal. **270** (2016), no. 11, 4213–4255, DOI: 10.1016/j.jfa.2016.03.015.

Citations for [7]

- [1] R. Magnus, *The implicit function theorem and multi-bump solutions of periodic partial differential equations*, Proc. Roy. Soc. Edinburgh Sect. A, **136** (2006), no. 3, 559–583.
- [2] P. Panayotaros, *Multibreather solitons in the diffraction managed NLS equation*, Phys. Lett. A, **349** (2006), no. 6, 430–438.
- [3] W. Zou and M. Schechter, *Critical point theory and its applications*, Springer, New York, 2006, pp. xii+318.
- [4] S. Chen, *Multi-bump solutions for a strongly indefinite semilinear Schrödinger equation without symmetry or convexity assumptions*, Nonlinear Anal. **68** (2008), no. 10, 3067–3102.
- [5] Y. Ding and J. Wei, *Stationary states of nonlinear Dirac equations with general potentials*, Rev. Math. Phys. **20** (2008), no. 8, 1007–1032.
- [6] F. Zhao, L. Zhao, and Y. Ding, *Existence and multiplicity of solutions for a non-periodic Schrödinger equation*, Nonlinear Anal. **69** (2008), no. 11, 3671–3678.
- [7] F. Zhao, L. Zhao, and Y. Ding, *Multiple solutions for asymptotically linear elliptic systems*, NoDEA Nonlinear Differential Equations Appl. **15** (2008), no. 6, 673–688.
- [8] L. Zhao and F. Zhao, *On the existence of solutions for the Schrödinger-Poisson equations*, J. Math. Anal. Appl. **346** (2008), no. 1, 155–169.
- [9] W. Zou, *Sign-changing critical point theory*, Springer, New York, 2008, pp. xiv+278.
- [10] G. Arioli, A. Szulkin, and W. Zou, *Multibump solutions and critical groups*, Trans. Amer. Math. Soc. **361** (2009), no. 6, 3159–3187, DOI: 10.1090/S0002-9947-09-04669-8.
- [11] S.-J. Chen and C.-L. Tang, *High energy solutions for the superlinear Schrödinger-Maxwell equations*, Nonlinear Anal. **71** (2009), no. 10, 4927–4934, DOI: 10.1016/j.na.2009.03.050.

- [12] J. Ding, J. Xu, and F. Zhang, *Solutions of super linear Dirac equations with general potentials*, *Differ. Equ. Dyn. Syst.* **17** (2009), no. 3, 235–256, DOI: 10.1007/s12591-009-0018-6.
- [13] Y. Ding and C. Lee, *Existence and exponential decay of homoclinics in a nonperiodic superquadratic Hamiltonian system*, *J. Differential Equations*, **246** (2009), no. 7, 2829–2848, DOI: 10.1016/j.jde.2008.12.013.
- [14] W. Kryszewski and A. Szulkin, *Infinite-dimensional homology and multibump solutions*, *J. Fixed Point Theory Appl.* **5** (2009), no. 1, 1–35, DOI: 10.1007/s11784-009-0104-y.
- [15] L. Lin, Z. Liu, and S. Chen, *Multi-bump solutions for a semilinear Schrödinger equation*, *Indiana Univ. Math. J.* **58** (2009), no. 4, 1659–1689, DOI: 10.1512/iumj.2009.58.3611.
- [16] F. Zhao and Y. Ding, *Infinitely many solutions for a class of nonlinear Dirac equations without symmetry*, *Nonlinear Anal.* **70** (2009), no. 2, 921–935.
- [17] F. Zhao and Y. Ding, *On a diffusion system with bounded potential*, *Discrete Contin. Dyn. Syst.* **23** (2009), no. 3, 1073–1086.
- [18] F. Zhao, L. Zhao, and Y. Ding, *A note on superlinear Hamiltonian elliptic systems*, *J. Math. Phys.* **50** (2009), no. 11, 112702, DOI: 10.1063/1.3256120.
- [19] J. Ding, J. Xu, and F. Zhang, *Homoclinic orbits of nonperiodic super quadratic Hamiltonian system*, *Acta Appl. Math.* **110** (2010), no. 3, 1353–1371, DOI: 10.1007/s10440-009-9514-5.
- [20] J. Ding, J. Xu, and F. Zhang, *Solutions of non-periodic super-quadratic Dirac equations*, *Journal of Mathematical Analysis and Applications*, **366** (2010), no. 1, 266–282, DOI: 10.1016/j.jmaa.2010.01.022.
- [21] Y. Ding, *Semi-classical ground states concentrating on the nonlinear potential for a dirac equation*, *J. Differential Equations*, **249** (2010), no. 5, 1015–1034, DOI: 10.1016/j.jde.2010.03.022.
- [22] O. Moschetta, *The Non-linear Schrödinger Equation: Non-degeneracy and Infinite-bump Solutions*, PhD thesis, Ph. D dissertation, University of Iceland, 2010, URL: <http://www.raunvis.hi.is/~oms3/files/thesis.pdf>.
- [23] A. Szulkin and T. Weth, *The method of Nehari manifold*, in *Handbook of nonconvex analysis and applications*, pp. 597–632, Int. Press, Somerville, MA, 2010, URL: http://www2.math.su.se/~andrzej/Recent_publications/Nehari.pdf.
- [24] J. Wang, J. Xu, and F. Zhang, *Existence and multiplicity of solutions for asymptotically Hamiltonian elliptic systems in \mathbb{R}^N* , *J. Math. Anal. Appl.* **367** (2010), no. 1, 193–203, DOI: doi:10.1016/j.jmaa.2010.01.002.

- [25] J. Wang, J. Xu, and F. Zhang, *Existence of solutions for nonperiodic superquadratic Hamiltonian elliptic systems*, *Nonlinear Anal.* **72** (2010), no. 3-4, 1949–1960, DOI: 10.1016/j.na.2009.09.035.
- [26] J. Wang, J. Xu, F. Zhang, and L. Wang, *Homoclinic orbits for an unbounded superquadratic*, *NoDEA Nonlinear Differential Equations Appl.* **17** (2010), no. 4, 411–435, DOI: 10.1007/s00030-010-0060-7.
- [27] F. Zhao and Y. Ding, *On Hamiltonian elliptic systems with periodic or non-periodic potentials*, *J. Differential Equations*, **249** (2010), no. 12, 2964–2985, DOI: 10.1016/j.jde.2010.09.014.
- [28] F. Zhao, L. Zhao, and Y. Ding, *Infinitely many solutions for asymptotically linear periodic Hamiltonian elliptic systems*, *ESAIM Control Optim. Calc. Var.* **16** (2010), no. 1, 77–91, DOI: 10.1051/cocv:2008064.
- [29] J. Wang, J. Xu, and F. Zhang, *Infinitely many solutions for diffusion equations without symmetry*, *Nonlin. Anal.* **74** (2011), no. 4, 1290–1303, DOI: 10.1016/j.na.2010.10.002.
- [30] J. Wang, J. Xu, and F. Zhang, *The existence of solutions for superquadratic Hamiltonian elliptic systems on \mathbb{R}^N* , *Nonlin. Anal.* **74** (2011), no. 3, 909–921, DOI: 10.1016/j.na.2010.09.044.
- [31] R. Zhang, J. Chen, and F. Zhao, *Multiple solutions for superlinear elliptic systems of Hamiltonian type*, *Discrete Contin. Dyn. Syst.* **30** (2011), no. 4, 1249–1262, DOI: 10.3934/dcds.2011.30.1249.
- [32] G. Chen and Y. Zheng, *Solitary waves for the Klein-Gordon-Dirac model*, *J. Differential Equations*, **253** (2012), no. 7, 2263–2284, DOI: 10.1016/j.jde.2012.06.015.
- [33] Y. Ding and X. Liu, *On semiclassical ground states of a nonlinear dirac equation*, *Reviews in Mathematical Physics*, **24** (2012), no. 10.
- [34] Y. Ding and B. Ruf, *Existence and concentration of semiclassical solutions for dirac equations with critical nonlinearities*, *SIAM Journal on Mathematical Analysis*, **44** (2012), no. 6, 3755–3785.
- [35] Y. Ding and X. Liu, *Semi-classical limits of ground states of a nonlinear Dirac equation*, *J. Differential Equations*, **252** (2012), no. 9, 4962–4987, DOI: 10.1016/j.jde.2012.01.023.
- [36] L. Li and S. Chen, *Infinitely many large energy solutions of superlinear Schrödinger-Maxwell equations*, *Electron. J. Differential Equations*, **2012** (2012), no. 224, 1–9.
- [37] J.-Q. Liu, Z.-Q. Wang, and Y.-X. Guo, *Multibump solutions for quasilinear elliptic equations*, *J. Funct. Anal.* **262** (2012), no. 9, 4040–4102, DOI: 10.1016/j.jfa.2012.02.009.

- [38] R. Magnus and O. Moschetta, *The non-linear Schrödinger equation with non-periodic potential: infinite-bump solutions and non-degeneracy*, Commun. Pure Appl. Anal. **11** (2012), no. 2, 587–626.
- [39] J. Sun, *Infinitely many solutions for a class of sublinear Schrödinger-Maxwell equations*, J. Math. Anal. Appl. **390** (2012), no. 2, 514–522, DOI: 10.1016/j.jmaa.2012.01.057.
- [40] G. Chen and Y. Zheng, *Stationary solutions of non-autonomous Maxwell-dirac systems*, Journal of Differential Equations (2013), 1–25, DOI: 10.1016/j.jde.2013.05.002.
- [41] B. Cheng, *Nontrivial solutions for Schrödinger-Kirchhoff-type problem in \mathbb{R}^N* , Bound. Value Probl. **2013** (2013), no. 250.
- [42] J. Ding, F. Zhang, and G. Feng, *Solutions of nonperiodic super quadratic Hamiltonian systems*, Math. Methods Appl. Sci. (2013), 1–13, DOI: 10.1002/mma.2768.
- [43] Y. H. Ding, C. Lee, and B. Ruf, *On semiclassical states of a nonlinear Dirac equation*, Proc. Roy. Soc. Edinburgh Sect. A, **143** (2013), no. 4, 765–790, DOI: 10.1017/S0308210511001752, URL: <http://dx.doi.org/10.1017/S0308210511001752>.
- [44] Y. Ding, C. Lee, and F. Zhao, *Semiclassical limits of ground state solutions to Schrödinger systems*, English, Calc. Var. Partial Differential Equations (2013), 1–36, DOI: 10.1007/s00526-013-0693-6.
- [45] Y. Ding, J. Wei, and T. Xu, *Existence and concentration of semi-classical solutions for a nonlinear Maxwell-Dirac system*, J. Math. Phys. **54** (2013), no. 6, 061505, 33, DOI: 10.1063/1.4811541.
- [46] Y. Ding and T. Xu, *On semi-classical limits of ground states of a nonlinear Maxwell-Dirac system*, English, Calc. Var. Partial Differential Equations (2013), 1–28, DOI: 10.1007/s00526-013-0665-x.
- [47] G. Li and C. Wang, *Multiple solutions for a semilinear elliptic system in \mathbb{R}^N* , Math. Methods Appl. Sci. (2013), 1–11, DOI: 10.1002/mma.2764.
- [48] J. Liu, Z.-Q. Wang, and X. Wu, *Multibump solutions for quasilinear elliptic equations with critical growth*, J. Math. Phys. **54** (2013), no. 12, DOI: 10.1063/1.4830027.
- [49] Z. Liu, S. Guo, and Z. Zhang, *Existence and multiplicity of solutions for a class of sublinear Schrödinger-Maxwell equations*, Taiwanese J. Math. **17** (2013), no. 3, 857–872, DOI: 10.11650/tjm.17.2013.2202.
- [50] Y. Lv, *Existence and multiplicity of solutions for a class of sublinear Schrödinger-Maxwell equations*, Bound. Value Probl. (2013), 2013:177, 22, DOI: 10.1186/1687-2770-2013-177.
- [51] J. Sun, J. Chu, and Z. Feng, *Homoclinic orbits for first order periodic Hamiltonian systems with spectrum point zero*, Discrete Contin. Dyn. Syst. **33** (2013), no. 8, 3807–3824, DOI: 10.3934/dcds.2013.33.3807.

- [52] L. Xiao, J. Wang, M. Fan, and F. Zhang, *Existence and multiplicity of semiclassical solutions for asymptotically Hamiltonian elliptic systems*, J. Math. Anal. Appl. **399** (2013), no. 1, 340–351, DOI: 10.1016/j.jmaa.2012.10.010.
- [53] J. Zhang, W. Qin, and F. Zhao, *Existence and multiplicity of solutions for asymptotically linear nonperiodic Hamiltonian elliptic system*, J. Math. Anal. Appl. **399** (2013), no. 2, 433–441, DOI: 10.1016/j.jmaa.2012.10.030.
- [54] P. Chen and C. Tian, *Infinitely many solutions for Schrödinger-Maxwell equations with indefinite sign subquadratic potentials*, Appl. Math. Comput. **226** (2014), no. 0, 492–502, DOI: 10.1016/j.amc.2013.10.069.
- [55] S. Chen, C. Wang, and L. Xiao, *Nontrivial solutions for periodic Schrödinger equations with sign-changing nonlinearities*, J. Funct. Spaces (2014), arXiv: 1406.4805 [math.AP], URL: <http://downloads.hindawi.com/journals/jfs/aip/757153.pdf>.
- [56] S. Chen and D. Zhang, *Existence of nontrivial solutions for asymptotically linear periodic Schrödinger equations*, Complex Var. Elliptic Equ. (2014), 1–16, DOI: 10.1080/17476933.2014.911293.
- [57] S. Chen and D. Zhang, *Existence of nontrivial solutions for periodic Schrödinger equations with new nonlinearities*, Abstr. Appl. Anal. (2014), Art. ID 539639, 10, DOI: 10.1155/2014/539639.
- [58] Y. Ding and T. Xu, *Localized concentration of semi-classical states for nonlinear Dirac equations*, English, Archive for Rational Mechanics and Analysis (2014), 1–33, DOI: 10.1007/s00205-014-0811-4.
- [59] Y. Ding and T. Xu, *On the concentration of semi-classical states for a nonlinear Dirac-Klein-Gordon system*, J. Differential Equations, **256** (2014), no. 3, 1264–1294, DOI: 10.1016/j.jde.2013.10.017.
- [60] Z. Liu and S. Guo, *On ground state solutions for the Schrödinger-Poisson equations with critical growth*, J. Math. Anal. Appl. **412** (2014), no. 1, 435–448, DOI: 10.1016/j.jmaa.2013.10.066.
- [61] J. Zhang, X. Tang, and W. Zhang, *On ground state solutions for superlinear Dirac equation*, Acta Math. Sci. Ser. B Engl. Ed. **34** (2014), no. 3, 840–850, DOI: 10.1016/S0252-9602(14)60054-0.
- [62] J. Zhang, X. Tang, and W. Zhang, *On semiclassical ground state solutions for Hamiltonian elliptic systems*, Applicable Analysis (2014), 1–17, DOI: 10.1080/00036811.2014.931940.
- [63] J. Zhang, X. Tang, and W. Zhang, *Semiclassical solutions for a class of Schrödinger system with magnetic potentials*, J. Math. Anal. Appl. (2014), DOI: 10.1016/j.jmaa.2013.12.060.

- [64] S. Chen, L. Lin, and L. Xiao, *Nontrivial solutions for periodic Schrödinger equations with sign-changing nonlinearities*, J. Funct. Spaces (2015), DOI: 10.1155/2015/757153.
- [65] Y. Ding and B. Ruf, *On multiplicity of semi-classical solutions to a nonlinear Maxwell-Dirac system*, J. Differential Equations (2015), DOI: 10.1016/j.jde.2015.12.013.
- [66] H. Fang and J. Wang, *Existence of positive solutions for a semilinear Schrödinger equation in \mathbb{R}^N* , Bound. Value Probl. **2015** (2015), no. 1, DOI: 10.1186/s13661-014-0270-8.
- [67] B. Cheng, *A new result on multiplicity of nontrivial solutions for the nonhomogenous Schrödinger-kirchhoff type problem in \mathbb{R}^N* , Mediterr. J. Math. **13** (2016), no. 3, 1099–1116, DOI: 10.1007/s00009-015-0527-1.
- [68] B. Cheng and X. Tang, *Infinitely many large energy solutions for Schrödinger-Kirchhoff type problem in \mathbb{R}^N* , J. Nonlinear Sci. Appl. **9** (2016), 652–660, URL: https://www.emis.de/journals/TJNSA/includes/files/articles/Vol9_Iss2_652--660_Infinitely_many_large_energy_soluti.pdf.
- [69] R. de Marchi and R. Ruviano, *Existence of solutions for a nonperiodic semilinear Schrödinger equation*, Complex Var. Elliptic Equ. (2016), 1290–1302, DOI: 10.1080/17476933.2016.1167887.
- [70] X. Feng, *Nontrivial solution for Schrödinger-Poisson equations involving a fractional nonlocal operator via perturbation methods*, Z. Angew. Math. Phys. **67** (2016), no. 3, 1–10, DOI: 10.1007/s00033-016-0667-6.
- [71] X. Feng and Y. Zhang, *Existence of non-trivial solution for a class of modified Schrödinger-Poisson equations via perturbation method*, J. Math. Anal. Appl. **442** (2016), no. 2, 673–684, DOI: 10.1016/j.jmaa.2016.05.002.
- [72] H. Liu, *Positive solutions of an asymptotically periodic Schrödinger-Poisson system with critical exponent*, Nonlinear Anal. Real World Appl. **32** (2016), 198–212, DOI: 10.1016/j.nonrwa.2016.04.007.
- [73] C. Mercuri, V. Moroz, and J. Van Schaftingen, *Groundstates and radial solutions to nonlinear Schrödinger-Poisson-Slater equations at the critical frequency*, Calc. Var. Partial Differential Equations, **55** (2016), no. 6, Paper No. 146, 58, DOI: 10.1007/s00526-016-1079-3.
- [74] V. Moroz and J. Van Schaftingen, *A guide to the Choquard equation*, J. Fixed Point Theory Appl. (2016), 1–41, DOI: 10.1007/s11784-016-0373-1, arXiv: 1606.02158 [math.AP].
- [75] J. Sun and S. Ma, *Ground state solutions for some Schrödinger-Poisson systems with periodic potentials*, J. Differential Equations, **260** (2016), no. 3, 2119–2149, DOI: 10.1016/j.jde.2015.09.057.

- [76] D.-L. Wu, C.-L. Tang, and X.-P. Wu, *Multiplicity of solutions for Schrödinger equations with concave-convex nonlinearities*, Int. J. Analysis (2016), DOI: 10.1155/2016/8350396.
- [77] J. Zhang, X. Tang, and W. Zhang, *On semiclassical ground states for Hamiltonian elliptic system with critical growth*, Topol. Methods Nonlinear Anal. **48** (2016), no. 1, 1–28, DOI: 10.12775/TMNA.2016.069.
- [78] J. Zhang, W. Zhang, and X. Xie, *Existence and concentration of semiclassical solutions for Hamiltonian elliptic system*, Commun. Pure Appl. Anal. **15** (2016), no. 2, 599–622.
- [79] W. Zhang, J. Zhang, and X. Xie, *On ground states for the Schrödinger-Poisson system with periodic potentials*, Indian J. Pure Appl. Math. **47** (2016), no. 3, 449–470, DOI: 10.1007/s13226-016-0177-4.
- [80] S. Duan and X. Wu, *Solutions for a class of nonperiodic superquadratic Hamiltonian elliptic systems involving gradient terms*, Discrete Dynamics in Nature and Society, **2017** (March 2017), DOI: 10.1155/2017/9125486.
- [81] G. Evéquoz, *On the periodic and asymptotically periodic nonlinear Helmholtz equation*, Nonlinear Anal. **152** (2017), 88–101, DOI: 10.1016/j.na.2016.12.012, arXiv: 1510.08347 [math.AP].
- [82] J. Zhang, W. Zhang, and X. Tang, *Semiclassical limits of ground states for Hamiltonian elliptic system with gradient term*, Nonlinear Analysis: Real World Applications, **40** (2018), 377–402, DOI: 10.1016/j.nonrwa.2017.08.010.

Citations for [8]

- [1] P. W. Bates, K. Lu, and C. Zeng, *Approximately invariant manifolds and global dynamics of spike states*, Invent. Math. **174** (2008), no. 2, 355–433.

Citations for [9]

- [1] F. Gazzola and T. Weth, *Finite time blow-up and global solutions for semilinear parabolic equations with initial data at high energy level*, Differential Integral Equations, **18** (2005), no. 9, 961–990.
- [2] M. Lazzo and P. G. Schmidt, *Monotone local semiflows with saddle-point dynamics and applications to semilinear diffusion equations*, Discrete Contin. Dyn. Syst. **suppl.** (2005), no. suppl. 566–575.
- [3] E. N. Dancer, *Conley indices on convex sets, attractor-repeller pairs and applications to multiple solutions of nonlinear elliptic equations*, J. Fixed Point Theory Appl. **1** (2007), no. 1, 47–60.

- [4] G. Cai, *On the heat flow for the two-dimensional Gelfand equation*, *Nonlinear Anal.* **68** (2008), no. 7, 1860–1867.
- [5] Z. Liu and Z.-Q. Wang, *Sign-changing solutions of nonlinear elliptic equations*, *Front. Math. China*, **3** (2008), no. 2, 221–238.
- [6] Q. Lu, *Compact support and dead cores for stationary degenerate diffusion equations*, ProQuest LLC, Ann Arbor, MI, 2008, p. 127, URL: http://gateway.proquest.com/openurl?url_ver=Z39.88-2004&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&res_dat=xri:pqdiss&rft_dat=xri:pqdiss:NR62772, Thesis (Ph.D.)—McMaster University (Canada).
- [7] R. Xing, *A priori estimates for global solutions of semilinear heat equations in \mathbb{R}^n* , *Nonlinear Anal.* **68** (2008), no. 7, 1844–1859.
- [8] R. Xing and H. Pan, *A priori bounds for global solutions of higher-order semilinear parabolic problems*, *J. Partial Differential Equations*, **21** (2008), no. 3, 221–233.
- [9] K.-C. Chang and M.-Y. Jiang, *Morse theory for indefinite nonlinear elliptic problems*, *Ann. Inst. H. Poincaré Anal. Non Linéaire*, **26** (2009), no. 1, 139–158.
- [10] R. Xing, *The blow-up rate for positive solutions of indefinite parabolic problems and related Liouville type theorems*, *Acta Math. Sin. (Engl. Ser.)* **25** (2009), no. 3, 503–518, DOI: 10.1007/s10114-008-5615-8.
- [11] J. Földes, *Qualitative Properties of Positive Solutions of Parabolic Equations: Symmetry, A priori Estimates, and Blow-up Rates*, PhD thesis, Comenius University Bratislava, 2010, URL: <http://www.iam.fmph.uniba.sk/studium/efm/phd/foldes/Juraj-Foldes-thesis2.pdf>.
- [12] J. Földes, *Liouville theorems, a priori estimates, and blow-up rates for solutions of indefinite superlinear parabolic problems*, *Czechoslovak Math. J.* **61(136)** (2011), no. 1, 169–198, DOI: 10.1007/s10587-011-0005-2.
- [13] K. P. Rybakowski, *A note on Ważewski principle and Conley index*, *Wiad. Mat.* **48** (2012), no. 2, 223–237, DOI: 10.14708/wm.v48i2.333.
- [14] V. Bobkov, *Least energy nodal solutions for elliptic equations with indefinite nonlinearity*, *Electron. J. Qual. Theory Differ. Equ.* **2014** (2014), no. 56, 1–15.
- [15] C. Gui, Y. Liu, and J. Wei, *On variational characterization of four-end solutions of the Allen-Cahn equation in the plane*, *J. Funct. Anal.* **271** (2016), no. 10, 2673–2700, DOI: 10.1016/j.jfa.2016.08.002.
- [16] R. D. Parshad, E. Quansah, K. Black, and M. Beauregard, *Biological control via “ecological” damping: an approach that attenuates non-target effects*, *Mathematical Biosciences*, **273** (2016), 23–44, DOI: 10.1016/j.mbs.2015.12.010, arXiv: 1502.02010 [math.AP].

- [17] E. K. A. Quansah, *Investigation of Three Species Predator-Prey Food Chain Model in Ecology: “Ecological” Damping, Allee Effects and Environmental Noise*, PhD thesis, Clarkson University, 2016.

Citations for [10]

- [1] M. Clapp and Y. Fernández, *Sign changing solutions to a partially periodic nonlinear Schrödinger equation in domains with unbounded boundary*, J. Fixed Point Theory Appl. **20** (February 2018), no. 1, 48, DOI: 10.1007/s11784-018-0521-x.

Citations for [11]

- [1] V. L. Barutello, A. Boscaggin, and G. Verzini, *Positive solutions with a complex behavior for superlinear indefinite ODEs on the real line*, J. Differential Equations, **259** (2015), no. 7, 3448–3489, DOI: 10.1016/j.jde.2015.04.026.
- [2] G. Feltrin and F. Zanolin, *Existence of positive solutions in the superlinear case via coincidence degree: the Neumann and the periodic boundary value problems*, Adv. Differential Equations, **20** (2015), no. 9-10, 937–982, arXiv: 1503.04954 [math.CA], URL: <http://projecteuclid.org/euclid.ade/1435064518>.
- [3] G. Feltrin and F. Zanolin, *Multiple positive solutions for a superlinear problem: a topological approach*, J. Differential Equations, **259** (2015), no. 3, 925–963, DOI: 10.1016/j.jde.2015.02.032.
- [4] G. Feltrin, *Positive solutions to indefinite problems: a topological approach*, PhD thesis, SISSA, 2016, URL: <http://urania.sissa.it/xmlui/handle/1963/35229>.
- [5] A. Boscaggin, *Positive periodic solutions to nonlinear ODEs with indefinite weight: an overview*, Rend. Semin. Mat. Univ. Politec. Torino (), URL: https://www.researchgate.net/profile/Alberto_Boscaggin/publication/311716528_Positive_periodic_solutions_to_nonlinear_ODEs_with_indefinite_weight_an_overview/links/5857a35e08ae81995eb7f80f.pdf (visited on 02/23/2017), to appear.

Citations for [12]

- [1] J. Byeon, S. Kim, and A. Pistoia, *Existence of clustering high dimensional bump solutions of superlinear elliptic problems on expanding annuli*, J. Funct. Anal. **265** (2013), no. 9, 1955–1980, DOI: 10.1016/j.jfa.2013.07.008.

- [2] R. Kajikiya, *Least energy solutions of the Emden-Fowler equation in hollow thin symmetric domains*, J. Math. Anal. Appl. **406** (2013), no. 1, 277–286, DOI: 10.1016/j.jmaa.2013.04.068.
- [3] J. Byeon and K. Tanaka, *Multi-bump positive solutions for a nonlinear elliptic problem in expanding tubular domains*, Calc. Var. Partial Differential Equations, **50** (2014), no. 1-2, 365–397, DOI: 10.1007/s00526-013-0639-z.
- [4] D. Rütters, *Computer-assisted Multiplicity Proofs for Emden’s Equation on Domains with Hole*, PhD thesis, Karlsruhe Institut of Technology (KIT), 2014.
- [5] R. Kajikiya, *Multiple positive solutions of the Emden-Fowler equation in hollow thin symmetric domains*, Calc. Var. Partial Differential Equations, **52** (2015), no. 3-4, 681–704, DOI: 10.1007/s00526-014-0729-6.
- [6] R. Kajikiya, *Partially symmetric solutions of the generalized Hénon equation in symmetric domains*, Topol. Methods Nonlinear Anal. **46** (2015), no. 1, 191–221, URL: <http://projecteuclid.org/euclid.tmna/1459343891>.

Citations for [13]

- [1] D. Rütters, *Computer-assisted Multiplicity Proofs for Emden’s Equation on Domains with Hole*, PhD thesis, Karlsruhe Institut of Technology (KIT), 2014.
- [2] L. A. Maia, J. O. Junior, and R. Ruviano, *Nonautonomous and non periodic Schrodinger equation with indefinite linear part*, Journal of Fixed Point Theory and Applications (2016), 1–20, DOI: 10.1007/s11784-016-0346-4.
- [3] L. A. Maia and B. Pellacci, *Positive solutions for asymptotically linear problems in exterior domains*, Ann. Mat. Pura Appl. (4) (2016), 1–32, DOI: 10.1007/s10231-016-0621-4.
- [4] A. Khatib, *Positive bound states for nonlinear Schrödinger equations in exterior domains*, PhD thesis, Universidade de Brasília, 2017.

Citations for [14]

- [1] C. O. Alves, G. M. Figueiredo, and R. G. Nascimento, *On existence and concentration of solutions for an elliptic problem with discontinuous nonlinearity via penalization method*, Z. Angew. Math. Phys. **65** (2014), no. 1, 19–40, DOI: 10.1007/s00033-013-0316-2.
- [2] X. X. Zhong and W. M. Zou, *A concentration behavior for semilinear elliptic systems with indefinite weight*, Acta Math. Sin. (Engl. Ser.) **30** (2014), no. 12, 2014–2026, DOI: 10.1007/s10114-014-3509-5.

- [3] Y. Zhong, *A concentration phenomenon for p -Laplacian equation*, J. Appl. Math. (2014), Art. ID 148902, 6, DOI: 10.1155/2014/148902.
- [4] C. O. Alves, *Existence of standing waves solution for a nonlinear schrödinger equation in \mathbb{R}^N* , Journal of Elliptic and Parabolic Equations, **1** (2015), no. 2, 231–241, DOI: 10.1007/BF03377378, arXiv: 1508.00274 [math.AP].

Citations for [15]

- [1] J. Faya, *Elliptic Problems with Critical and Supercritical Nonlinearities*, PhD thesis, Instituto de Matemáticas, UNAM, Mexico City, 2014.
- [2] M. Musso, J. Wei, and S. Yan, *Infinitely many positive solutions for a nonlinear field equation with super-critical growth*, Proceedings of the London Mathematical Society, **112** (2016), no. 1, 1–26, DOI: 10.1112/plms/pdv063.
- [3] J. Dávila, J. Faya, and F. Mahmoudi, *New type of solutions to a slightly subcritical Hénon type problem on general domains*, Journal of Differential Equations, **263** (2017), no. 11, 7221–7249, DOI: 10.1016/j.jde.2017.08.005.

Citations for [16]

- [1] W. Xie, H. Chen, and H. Shi, *Ground state solutions for the nonlinear Schrödinger-Poisson systems with sum of periodic and vanishing potentials*, Mathematical Methods in the Applied Sciences, **41** (2018), no. 1, 144–158, DOI: 10.1002/mma.4602.

Citations for [17]

- [1] M. Clapp, J. Faya, and F. Pacella, *Towers of nodal bubbles for the Bahri–Coron problem in punctured domains*, International Mathematics Research Notices (2018), DOI: 10.1093/imrn/rnx289.

Statistics of Citations in Published Works

Year	Number
0	1
2001	1
2003	1
2005	8
2006	5
2007	9
2008	19
2009	19
2010	17
2011	8
2012	19
2013	29
2014	28
2015	23
2016	38
2017	15
2018	8
Total	248