魏雷 2019/12/5



江苏师范大学数学与统计学院

School of Mathematics and Statistics , Jiangsu Normal University

当前位置: 首页 魏雷



魏雷 男,汉族,

1978年11月出生,江苏邳州人。

1997年9月-2004年6月 徐州师范大学 本科、硕士

2010年3月 于东南大学数学系取得理学博士学位

2011年9月-2017年6月 江苏师范大学 数学与统计学院 副教授

2012年6月-2012年9月 访问美国德克萨斯大学泛美分校

2014年2月-2015年2月 访问澳大利亚新英格兰大学

2017年7月-至今 江苏师范大学 数学与统计学院 教授、硕士生导师

主要研究方向: 非线性椭圆方程、反应扩散方程

已发表的论文:

Haihua Lu, Lei Wei, Cheng-Cheng Zhu, Free boundary problems of the logistic equation with nonlocal diffusion coefficient, submitted. Yujuan Chen, Lei Wei, Aysmptotic behavior and symmetry of positive solutions to quasilinear equations in a half-space, submitted.

Cheng Tan, Lei Wei, Uniqueness and asymptotic behavior of positive solutions to quasilinear elliptic problems with Hardy potential,

submitted.

Lei Wei, Yihong Du, Positive solutions of elliptic equations with a strong singular potential, Bull. London Math. Soc. 51 (2019), 251-266.

Lei Wei, Zengji Du, Uniqueness and local properties of positive solutions to a semilinear elliptic equation with singular potential, Communication in Contemporary Mathematics, 21 (5) (2019), 21pp.

Yihong Du, Lei Wei, Ling Zhou, Spreading in a shifting environment modeled by the diffusive logistic equation with a free boundary, J. Dynamics and Differential Equations, 30 (2018), 1389-1426.

2019/12/5 魏雷

Haihua Lu, Lei Wei, Global existence and blow-up of positive solutions of a parabolic problem with free boundaries, *Nonlinear Analysis: Real World Applications*, 39 (2018), 77-92.

Weiwei Ding, Rui Peng, Lei Wei, The diffusive logistic model with a free boundary in a heterogeneous time-peiodic environment, *J. Differential Equations*, 263 (2017), 2736-2779.

Rui Peng, Xianfa Song, Lei Wei, Existence, nonexistence and uniqueness of positive stationary solutions of a singular Gierer-Meinhardt system, *Discrete Contin. Dyn. Syst.*, 37 (2017), 4489-4505.

Lei Wei, Yihong Du, Exact singular behavior of positive solutions to nonlinear elliptic equations with a Hardy potential, *J. Differential Equations*, 262(2017), 3864-3886.

Lei Wei, Xiyou Cheng, Z. Feng, Exact behavior of positive solutions to elliptic equations with multi-singular inverse square potentials, *Discrete Contin. Dyn. Syst.*, 36 (2016), 7169-7189.

Lei Wei, Asymptotic behavior and symmetry of positive solutions to nonlinear elliptic equations in a half-space, *Proc. Roy. Soc. Edinburgh Sect. A*, 146 (2016), 1243-1263.

Lei Wei, Guanghui Zhang, Maolin Zhou, Long time behavior for solutions of the diffusive logistic equation with advection and free boundary, *Calc. Var. Partial Differential Equations.*, 4 (55) (2016)

Lei Wei, Xiyou Cheng, Z. Feng, Existence and behavior of positive solutions to elliptic system with Hardy potential, *Electron. J. Diff. Equ.*, 223(2016), 1-14.

Yihong Du, Lei Wei, Boundary behavior of positive solutions to nonlinear elliptic equations with Hardy potential, *J. London Math. Soc.* 91 (2015), 731–749.

Lei Wei, Zhaosheng Feng, Isolated singularity for semilinear elliptic equations, Discrete Contin. Dyn. Syst., 35 (2015), 3239-3252.

Xiyou Cheng, Lei Wei, Dynamics of the p-Laplacian equations with nonlinear dynamic boundary conditions, *Electronic Journal of Differential Equations*, 37 (2015), 1-15.

Lei Wei, Zhaosheng Feng, Existence and nonexistence of solutions for quasilinear elliptic systems, *Dynamics of PDE*, 10 (2013), 25-42.

Lei Wei, Jiang Zhu, The existence and blow-up rate of large solutions of one-dimensional p-Laplacian equations, *Nonlinear Analysis: Real World Applications*, 13 (2012), 665-676.

Lei Wei, The existence of large solutions of semilinear elliptic equations with negative exponents, *Nonlineae Analysis: TMA*, 73 (2010), 1739 1746.

Lei Wei, Mingxin Wang, Jiang Zhu, Multiple nontrivial solutions for a class of p-Laplacian equations, *Acta Applicandae Mathematicae*, 110 (2010), 1153-1167.

Lei Wei, Mingxin Wang, Existence of large solutions of a class of quasilinear elliptic equations with singular boundary, *Acta Mathematica Hungarica*, 129 (2010), 81-95.

Lei Wei, Mingxin Wang, Existence and estimate of large solutions for an elliptic system, Nonlinear Analysis: TMA, 72 (2009), 1096-1104.

Mingxin Wang, Lei Wei, Existence and boundary blow-up rates of solutions for boundary blow-up elliptic systems, *Nonlinear Analysis:TMA*, 71 (2009), 2022-2032.

Lei Wei, Jiang Zhu, A second order multivalued boundary-value problem and impulsive neutral functional differential inclusions in Banach spaces, *Nonlinear Oscillations*, 11 (2008), 191-207.

Lei Wei, Jiang Zhu, Yeol Je Cho, Controllability of the second order differential inclusions in Banach spaces, *Comm. Appl. Nonlinear Anal.*, 13(2006), 93-105.

主持参与基金情况:

国家自然科学基金面上项目,椭圆型偏微分方程中若干奇异问题的研究,主持, 2019-2022 国家自然科学基金面上项目,具有时空周期性和奇异性反应扩散方程若干问题的研究,参与, 2013-2016 国家自然科学基金面上项目,非线性方程中的拓扑与变分方法,参与, 2012-2015 国家自然科学基金天元基金,含Hardy位势的边界爆破问题的定性研究, 主持,2012-2012 江苏省高校自然科学基金,带Hardy位势的椭圆型方程边界爆破的定性研究,主持,2011-2013

邮 箱: wlxznu@163.com

通信地址:徐州市铜山新区上海路101号,

江苏师范大学数学与统计学院,邮编: 221116

办公室: 敬远楼 511室

版权所有: 江苏师范大学数学与统计学院 地址: 江苏省徐州市铜山新区上海路101号 邮编: 221116 电话: 0516-83403154 传真: 0516-83500387