

Volume 6 Number 1
March 2024

ISSN 2562-2854(print)
ISSN 2562-2862(online)

Journal of Nonlinear Modeling and Analysis

Editors-in-Chief

Maoan Han & Junling Ma

 Global Science Press



Zhejiang Normal University

Journal of Nonlinear Modeling and Analysis

Volume 6, Number 1

March 2024

Contents

- 1 **On Stability of L -Fuzzy Mappings with Related Fixed Point Results**
Mohammed Shehu Shagari and Musa Balarabe
- 19 **The Existence and Global p -Exponential Stability of Periodic Solution for Stochastic BAM Neural Networks with Delays**
Yayu Li and Dingshi Li
- 32 **Traveling Wave of Three-species Stochastic Lotka-Volterra Competitive System**
Hao Wen and Jianhua Huang
- 56 **Positive Solutions for Third Order Three-Point Boundary Value Problems with p -Laplacian**
Xingfang Feng and Hanying Feng
- 71 **Existence and Multiplicity of Solutions for a Biharmonic Kirchhoff Equation in \mathbb{R}^5**
Ziqing Yuan and Sheng Liu
- 88 **Magneto-Compound Reaction of Convective Flow via a Porous Inclined Plate with Heat Energy Absorption**
D. Chenna Kesavaiah, B. Venkateswarlu, N. Nagendra and O.D. Makinde
- 107 **Existence of Three Weak Solutions for a Class of Quasi-Linear Elliptic Operators with a Mixed Boundary Value Problem Containing $p(\cdot)$ -Laplacian in a Variable Exponent Sobolev Space**
Junichi Aramaki
- 133 **Painlevé Analysis and Auto-Bäcklund Transformation for a General Variable Coefficient Burgers Equation with Linear Damping Term**
Yadong Shang and Xiaoru Zheng
- 142 **Existence and Uniqueness of Solutions for Time-Fractional Oldroyd-B Fluid Equations with Generalized Fractional Derivatives**
Hassan Messaoudi, Abdelouaheb Ardjouni and Salah Zitouni
- 152 **Traveling Wave Solutions in a Chemotaxis Model with Two Chemoattractants**
Fanfan Li and Zhenlai Han

Journal of Nonlinear Modeling and Analysis

Volume 6, Number 1

March 2024

Contents

- 161 **Spatial Dynamics of a Lattice Lotka-Volterra Competition Model with a Shifting Habitat**
Bojun Huang and Binxiang Dai
- 184 **Local Existence of Strong Solutions to the Generalized MHD Equations**
Liangbing Jin and Xinru Cheng
- 194 **Existence and Approximate Controllability of Solutions for an Impulsive Evolution Equation with Nonlocal Conditions in Banach Space**
Lixin Sheng, Weimin Hu, You-Hui Su and Yongzhen Yun
- 210 **Global Regularity to the 3D Generalized MHD Equations with Nonlinear Damping Terms**
Jianlong Wu and Liangbing Jin
- 218 **Upper Bound of the Number of Zeros for Abelian Integrals in a Kind of Quadratic Reversible Centers of Genus One**
Qiuli Yu, Houmei He, Yuangen Zhan and Xiaochun Hong