

Publication List

Zhifu Xie

PUBLICATIONS (A * indicates an undergraduate co-author)

1. Zhifu Xie
An Analytical Proof on Certain Determinants Connected with the Collinear Central Configurations in the n -body Problem.
Celestial Mechanics and Dynamical Astronomy, 118 (2014), no. 1, 89-97.
2. Yongjin Lu, Zhifu Xie, Jing Zhang
An Analysis of the Stability and the Efficiency of a Cooperative Network among Companies, Universities and Local Government. **Journal of Game Theory**, 2013, 2(3): 23-32.
3. Tiancheng Ouyang, Zhifu Xie
Number of Central Configurations and Singular Surfaces in Mass Space in the Collinear Four-body Problem.
Transactions of the American Mathematical Society, 364 (2012), 2909-2932.
4. Zhifu Xie, Chunshan Zhao
Blow-up Rate and Uniqueness of Singular Radial Solutions for a Class of Quasi-Linear Elliptic Equations. **Journal of Differential Equations**, 252 (2012) 1776-1788.
5. Zhifu Xie
Isosceles Trapezoid Central Configurations of the Newtonian Four-body Problem. **Proceedings of the Royal Society of Edinburgh**, 142A (2012), 665-672.
6. Zhifu Xie
Cross-diffusion induced Turing instability for a three species food chain model. **Journal of Mathematical Analysis and Applications**, 388 (2012), 539-547.
7. Zhifu Xie, Kenyaita Hodge*, Michael Westbrook*, Krystolyn Henderson*
Super Central Configurations of the Three-body Problem under the Inverse Integer Power Law. **Journal of Mathematical Physics**, 52 (2011) 092901.
8. Zhifu Xie
The Golden Ratio and Super Central Configurations of the n -body Problem.
Journal of Differential Equations, 251 (2011) 58-72.
<http://dx.doi.org/10.1016/j.jde.2011.03.002>
9. Zhifu Xie
Central Configurations of the Collinear Three-body Problem and Singular Surfaces in the Mass Space. **Physics Letters A**, 375 (2011) 3392-3398.
<http://dx.doi.org/10.1016/j.physleta.2011.07.047>

10. Zhifu Xie
Turing instability in a coupled predator-prey model with different Holling type functional responses. **Discrete and Continuous Dynamical System, Series S**, 4 (2011) pp 1621-1628.
<http://dx.doi.org/10.3934/dcdss.2011.4.1621>
11. Junping Shi, Zhifu Xie, Kristina Little
Cross-diffusion induced instability and stability in reaction-diffusion systems.
Journal of Applied Analysis and Computation, Vol. 1, No. 1 (2011) pp 95-119.
12. Zhifu Xie
Inverse Problem of Central Configurations and Singular Curve in the Collinear 4-Body Problem. **Celestial Mechanics and Dynamical Astronomy** 107, (2010) pp 353-376.
<http://dx.doi.org/10.1007/s10569-010-9280-8>
13. Zhifu Xie
Super Central Configurations of the n-body Problem.
Journal of Mathematical Physics 51, (2010) 042902.
<http://dx.doi.org/10.1063/1.3345125>
14. Junping Shi, Zhifu Xie
Classification of four-body central configurations with three equal masses.
Journal of Mathematical Analysis and Applications 363 (2010) pp512–524.
<http://dx.doi.org/10.1016/j.jmaa.2009.09.040>
15. Mervin Woodlin*, Zhifu Xie
Collinear Central Configurations in the n-body Problem with General Homogeneous Potential.
Journal of Mathematical Physics 50, (2009), 102901.
<http://dx.doi.org/10.1063/1.3205451>
16. Zhifu Xie
General Uniqueness Results and Examples for Blow-up Solutions of Elliptic Equations.
Discrete and Continuous Dynamical System, Supplement, (2009) pp828-837.
17. Zhifu Xie
Uniqueness and blow-up rate of large solutions for elliptic equation $-\Delta u = \lambda u - b(x)h(u)$.
Journal of Differential Equations 247 (2009) pp344-363.
<http://dx.doi.org/10.1016/j.jde.2009.04.001>
18. Tiancheng Ouyang, Zhifu Xie
Regularization of Simultaneous Binary Collisions and Periodic Solution with Singularity in the Collinear Four-Body Problem. **Discrete and Continuous Dynamical System, Series A**, Vol 24 (2009) pp909-932. <http://dx.doi.org/10.3934/dcds.2009.24.909>
19. Huiqing Yang, Zhifu Xie
A Red-Black Gauss Seidel Parallel Algorithm for Solving Neumann Boundary Elliptic PDEs.
the Proceedings of the 2009 International Conference on Parallel and Distributed Processing Techniques and Applications PDPTA 2009, Volume II, Editor: Hamid R. Arabnia, pp539–545.

20. Tiancheng Ouyang, Zhifu Xie
The Exact Boundary Blow-up Rate of Large Solutions for Semilinear Elliptic Problems.
Nonlinear Analysis: Theory, Methods and Applications, Vol 68(2008) pp 2791-2800.
<http://dx.doi.org/10.1016/j.na.2007.02.026>
21. Tiancheng Ouyang, Zhifu Xie
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Nonlinear Analysis: Theory, Methods and Applications, Vol. 64(2006) pp 2129-2142.
<http://dx.doi.org/10.1016/j.na.2005.08.010>
22. Tiancheng Ouyang, Zhifu Xie
Collinear Central Configuration in Four-body Problem.
Celestial Mechanics and Dynamical Astronomy, Vol. 93(2005), pp 147-166.
<http://dx.doi.org/10.1007/s10569-005-6596-x>
23. Tiancheng Ouyang, Zhifu Xie, Shiqing Zhang
Pyramidal Central Configurations and Perverse Solutions.
Electronic Journal of Differential Equations, Vol. 2004(2004), No. 106, pp 1-9.
<http://ejde.math.txstate.edu/Volumes/2004/106/abstr.html>
24. Shiqing Zhang, Zhifu Xie
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25. Zhifu Xie, Qian Chen
Pyramidal Central Configurations for Spatial 5-body problems.
Journal of Chongqing University(Natural Science Edition),
Vol. 24(2001), No. 1, pp 122-126.
26. Zhifu Xie, Shiqing Zhang
A simpler proof of regular polygon solutions of the N-body problem.
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[http://dx.doi.org/10.1016/S0375-9601\(00\)00698-8](http://dx.doi.org/10.1016/S0375-9601(00)00698-8)
27. Weidong Meng, Ri Chen, Zhifu Xie
A study of the basic structure of the Elliott wave based on positive feedback investment.
Forecast in China (in Chinese), Vol. 7(2000) pp 79-81.
28. Ri Chen, Weidong Meng, Zhifu Xie
A study of the lager feature of the Elliott wave based on positive feedback investment.
Forecast in China(in Chinese), Vol. 7(2000) pp 82-87.
29. Weidong Meng, Ri Chen, Zhifu Xie
A study of the of the Fibonacci sequence phenomenal and the growth feature of the Elliot wave on positive feedback investment model.
Forecast in China(in Chinese), Vol. 7(2000) pp 88-89.