

ISSN 2095-2651  
CODEN SYPIET



# Journal of Mathematical Research with Applications

数学研究及应用

万方数据

Vol.41 **5** 2021

### Research Papers

- Algebraic properties of reduced biquaternions ..... Wensheng CAO, Zhe TANG (441)
- Fekete-Szegő problem associated with  $k$ -th root transformation for the inverse of univalent functions  
defined by quasi-subordination ..... Dong GUO, Huo TANG, En AO, Zongtao LI (454)
- Dynamics of anti-periodic solutions for inertial Quaternion-valued Hopfield neural networks with  
time-varying delays ..... Ailing LI, Mengting LÜ (461)
- Asymptotic behavior of solutions to a logistic chemotaxis system with singular sensitivity  
..... Wanjuan DU (473)
- $M^k$ -type sharp estimates and boundedness on Morrey space for Toeplitz type operators associated  
to fractional integral and singular integral operator with non-smooth kernel  
..... Dazhao CHEN (481)
- Multiple solutions for a class of quasilinear equations with critical exponential growth  
..... Qin LI, Zhen ZHI, Zuodong YANG (497)
- Reducing subspaces for  $T_{z_1^{k_1} z_2^{k_2} + \bar{z}_1^{l_1} \bar{z}_2^{l_2}}$  on weighted Hardy space over bidisk  
..... Bian REN, Yanyue SHI (510)
- Characterizations of additive Jordan left  $*$ -derivations on  $C^*$ -algebras  
..... Ying YAO, Guangyu AN (531)
- Some remarks on Higgs bundles over compact generalized Kähler manifolds  
..... Ruixin WANG, Wen WANG, Songting YIN (537)



# Journal of Mathematical Research with Applications

Formerly Journal of Mathematical Research and Exposition  
Bimonthly Founded in 1981

Supervised by

The Ministry of Education of the People's Republic of China

Sponsored by

Dalian University of Technology &

China Society for Industrial and Applied Mathematics

Editors-in-Chief

Lei GUO & Renhong WANG

Edited & Published by

The Editorial Office of Journal of

Mathematical Research with Applications

Address: No.2 Linggong Road, Ganjingzi District

Dalian 116024, P. R. China

Printed by

Dalian University of Technology Printing Co., Ltd.

Distributed

In China by Local Post Offices;

Overseas by China National Publications

Import & Export (Group) Corporation

ISSN 2095-2651



ISSN 2095-2651

PO Subscription Code 8-92

CN 21-1579 / O1

Price 20.00 RMB