

[Home](#)

[Subject](#) > [Journals](#) [Books](#) [Major Reference Works](#) [Resources For Partners](#) > [Open Access](#)

[About Us](#) > [Help](#) >



MODERN PHYSICS LETTERS B

Condensed Matter Physics; Statistical Physics; Atomic, Molecular and Optical Physics

ISSN (print): 0217-9849 | ISSN (online): 1793-6640

 [Tools](#)  [Share](#)  [Recommend to Library](#)

[Submit an article](#)

[Subscribe](#)

 [Journal](#)

 [About the Journal](#) 

Modern Physics Letters B

CONDENSED MATTER PHYSICS • STATISTICAL PHYSICS

www.worldscientific.com/mpib/

Journal achieved **17% increase** for
Impact Factor 2021 to 1.948!

**Recommend to your
librarian today!**

The journal has seen a significant increase in
downloads in 2022. Its papers have been
downloaded

222,224 times already!



Modern Physics Letters B

CONDENSED MATTER PHYSICS • STATISTICAL PHYSICS

**Publish with
us today!**

 **World Scientific**
Connecting Great Minds

Top Articles of 2022

Modern Physics Letters B

These are the top articles for the year 2022, chosen by our editors!



World Scientific Remembers Professor Zhang Shoucheng

Do you have a special issue proposal?
Send us your ideas!

Call for papers

Special Issue on Electron correlation in superconductors and nanostructures

Guest Editors

Prof. Kruchinin Sergei

Bogolyubov Institute for Theoretical Physics

National Ukrainian Academy of Science

Key Deadlines:

Open for submissions: 8th March 2023

Deadline: 1st October 2023

Publication date: After the completion of special issue

Special Issue on Nonlinear Dynamics in Physical Sciences (Conference Proceedings of ICMMETC-2023)

Guest Editors

Prof. Dr. Muhammad Ijaz Khan

Department of Mechanics and Engineering Science, Peking University, Beijing, China

Department of Mechanical Engineering, Lebanese American University, Beirut, Lebanon

Prof. Shankar Rao Munjam

Assistant Professor of Mathematics, School of Technology, Woxsen University, Hyderabad, Telangana, India

All submissions will be managed by the Guest Editors and fully refereed according to the high standards of International Journal of Modern Physics B. Accepted papers will be published online with DOI directly after acceptance. The printed issue will be published upon accumulation of a sufficient number of accepted papers. Please direct any general questions about this special issue or any administrative matters to the Guest Editors, **Muhammad Ijaz Khan** and **Shankar Rao Munjam**.

Schedule and Key Deadlines

Open for submissions: **4th March 2023**

Paper submission deadline: 1st September 2023 (submission site will be closed automatically)

Publication date: After the completion of special issue.

Please note that all final accepted papers of this special issue will be published on an Open Access Platform, wherein all papers are freely accessible and downloadable to all. Your paper on the OA platform will be subject to increased usage, increased readability, and increased citations. For OA, all authors will pay a compulsory Article Processing Charge of US\$2,200 per article. (Plus VAT or any local taxes where applicable)

Special Issue on Recent Advancement in Statistical Mechanics and Thermodynamics

Guest Editors

Dr. Muhammad Ijaz Khan

Department of Mechanics and Engineering Science, Peking University, Beijing, China

Dr. Muhammad Imran Khan

Division of Sustainable Development, College of Science & Engineering, Hamad Bin Khalifa University

Please note that all final accepted papers of this special issue will be published on an Open Access Platform, wherein all papers are freely accessible and downloadable to all. Your paper on the OA platform will be subject to increased usage, increased readability, and increased citations. For OA, all authors will pay a compulsory Article Processing Charge of US\$2,200 per article. (Plus VAT or any local taxes where applicable)

Most Read Articles

First-principles study on ultralow lattice thermal conductivity in HfGeTe₄

Xiu-Feng Zhou and Jian Zhou

A novel fractional-order chaotic system and its synchronization circuit realization

Ningning Yang, Shuo Yang and Chaojun Wu

Quantum dissipation and friction attributed to plasmons

Yang Wang and Yu Jia

Molecular simulation study for adsorption and thermal energy storage analysis of refrigerants (R170, R161, R152a, and R143a) mixed with UIO-67 nanoparticles

Fei Yan, Qiang Wang, Shucheng Ou, Ruiqiang Zhang and Guoqiang Wang

Periodic exciton-polariton solitons in semiconductor nanowires

E. Nji Nde Aboringong, I. Ndifon Ngek and Alain M. Dikandé

Register for a free account to access these articles.

[Register](#) with us today to receive free access to the selected articles.

Featured Articles:

Anti-dewetting of Cu thin film on nanostructured black Si template for continuous CVD growth of monolayer graphene

Mohd Faizol Abdullah

Influence of nonlinear absorption on the propagation of ultrashort optical pulses in an anisotropic optical medium with carbon nanotubes

Natalia N. Konobeeva and Mikhail B. Belonenko

Triple-band terahertz metamaterial absorber using the nesting structure of two pairs of splitting arcs

Sijian Zhang, Shengxiong Lai, Liming Lu, Zhuchuang Yang, Kun Wang, Sen Feng, Yangkuan Wu, Huaxin Zhu and Ben-Xin Wang

Magnetohydrodynamic migration of nanomaterial within a cavity with involvement of hybrid nanoparticles

Bandar Almohsen

Diverse and novel soliton structures of coupled nonlinear Schrödinger type equations through two competent techniques

Md. Tarikul Islam, Md. Ali Akbar, Hijaz Ahmad, Onur Alp Ilhan and Khaled A. Gepreel

New computational optical solitons for generalized complex Ginzburg–Landau equation by collective variables

Nauman Raza, Nahal Jannat, J. F. Gómez-Aguilar and Eduardo Pérez-Careta

View more Featured Articles here [here](#).

LATEST ARTICLES

Modulational instability in lossless left-handed metamaterials in nonlinear Schrödinger equation with non-integer dimensional space

Azakine Sindanne Sylvere, Vroumsia David, Mibaile Justin, Mora Joseph, Gambo Betchewe, and Mustafa Inc

Vol. 37, No. 11

A gradient system for a higher-gradient generalization of Fourier's law of heat conduction

Grigor Nika

Vol. 37, No. 11

Diverse wave structures to the modified Benjamin–Bona–Mahony equation in the optical illusions field

Kang-Jia Wang

Vol. 37, No. 11

Effects of deformation direction and temperature on mechanical properties of nanopolycrystal Ni-Co alloy with gradient twin structure

Xuefeng Lu, Wei Zhang, Xu Yang, Xin Guo, Xiaotong Chen, Junqiang Ren, Hongtao Xue, and Fuling Tang

Vol. 37, No. 11

Thermal stability and decomposition mechanisms of hexatetracarbon: Tight-binding molecular dynamics and density functional theory study

Yusupbek Bauetdinov, Anastasiya Grekova, and Renu Sangwan

Vol. 37, No. 11

Numerical study of non-Newtonian power-law fluids under low-frequency vertical harmonic vibration

Qiang Huo and Xiaopeng Wang

Vol. 37, No. 10

[Show More](#)

MOST READ ARTICLES

 *The most read articles in the last 3 years*

Anti-dewetting of Cu thin film on nanostructured black Si template for continuous CVD growth of monolayer graphene

Mohd Faizol Abdullah

Vol. 36, No. 22

Influence of nonlinear absorption on the propagation of ultrashort optical pulses in an anisotropic optical medium with carbon nanotubes

Natalia N. Konobeeva and Mikhail B. Belonenko

Triple-band terahertz metamaterial absorber using the nesting structure of two pairs of splitting arcs

Sijian Zhang, Shengxiong Lai, Liming Lu, Zhuchuang Yang, Kun Wang, Sen Feng, Yangkuan Wu, Huaxin Zhu, and Ben-Xin Wang

Synthesis and luminescence properties of (Dy^{3+} , Eu^{3+}) ions co-doped double-perovskite $\text{Ba}_2\text{LaNbO}_6$ phosphors

Hao-Long Chen, Po-Hsueh Lin, Hung-Rung Shih, and Yee-Shin Chang

A predictive deep-learning approach for homogenization of auxetic kirigami metamaterials with randomly oriented cuts

Tongwei Liu, Shanwen Sun, Hang Liu, Ning An, and Jinxiong Zhou

Study on dynamic effective parameters of bilayer perforated thin-plate acoustic metamaterials

Yicai Xu, Jiu Hui Wu, and Yongqing Cai

[Show More](#)

MOST CITED ARTICLES

 *The most cited articles in the last 3 years. Source: Crossref*

Chirp-free optical dromions for the presence of higher order spatio-temporal dispersions and absence of self-phase modulation in birefringent fibers

Syed Tahir Raza Rizvi, Aly R. Seadawy, Ijaz Ali, Ishrat Bibi, and Muhammad Younis

Vol. 34, No. 35

Applications of extended modified auxiliary equation mapping method for high-order dispersive extended nonlinear Schrödinger equation in nonlinear optics

Aly R. Seadawy and Nadia Cheemaa

Vol. 33, No. 18

Solitons for the (2 + 1)-dimensional Boiti–Leon–Manna–Pempinelli equation for an irrotational incompressible fluid via the Pfaffian technique

Lei Hu, Yi-Tian Gao, Shu-Liang Jia, Jing-Jing Su, and Gao-Fu Deng

Vol. 33, No. 30

Numerical study of heat transfer and Hall current impact on peristaltic propulsion of particle-fluid suspension with compliant wall properties

M. M. Bhatti, Rahmat Ellahi, A. Zeeshan, M. Marin, and N. Ijaz

Vol. 33, No. 35

Analytical versus numerical solutions of the nonlinear fractional time-space telegraph equation

Mostafa M. A. Khater and Dianchen Lu

Vol. 35, No. 19

Diverse solitary and Jacobian solutions in a continually laminated fluid with respect to shear flows through the Ostrovsky equation

Mostafa M. A. Khater

Vol. 35, No. 13

Comparative analysis of (Zinc ferrite, Nickel Zinc ferrite) hybrid nanofluids slip flow with entropy generation

P.-Y. Xiong, M. Ijaz Khan, R. J. Punith Gowda, R. Naveen Kumar, B. C. Prasannakumara, and Yu-Ming Chu

Vol. 35, No. 20

New exact traveling wave solutions of biological population model via the extended rational sinh-cosh method and the modified Khater method

Hadi Rezazadeh, Alper Korkmaz, Mostafa M. A. Khater, Mostafa Eslami, Dianchen Lu, and Raghda A. M. Attia

Vol. 33, No. 28

Soliton interactions of a variable-coefficient three-component AB system for the geophysical flows

Yu-Jie Feng, Yi-Tian Gao, Ting-Ting Jia, and Liu-Qing Li

Vol. 33, No. 29

[Show More](#)

[Privacy policy](#)

© 2023 World Scientific Publishing Co Pte Ltd

Powered by Atypon® Literatum