



*universe*



an Open Access Journal by MDPI

## F(R) Gravity

Guest Editors:

**Prof. Dr. Sergei D. Odintsov**

1. Institució Catalana de Recerca  
i Estudis Avançats (ICREA),  
Passeig Luis Companys, 23,  
08010 Barcelona, Spain  
2. Institute of Space Sciences  
(ICE-CSIC), C. Can Magrans s/n,  
08193 Barcelona, Spain

**Prof. Dr. Vasilis K. Oikonomou**

Physics Department, Aristotle  
University of Thessaloniki, 54124  
Thessaloniki, Greece

Deadline for manuscript  
submissions:

**closed (31 December 2018)**

### Message from the Guest Editors

Dear Colleagues,

F(R) gravity plays a prominent role in the description of gravitational phenomena at large and astrophysical scales. Among the various modified gravity proposals, the F(R) gravity framework is the conceptually simplest generalization of Einstein's gravity, and has attracted the interest of many cosmologists. In this special issue, the focus will be on applications of F(R) gravity at large and astrophysical scales. We aim to highlight a plethora of theoretical proposals that find explanation in the context of F(R) gravity, both in cosmology and in astrophysics. In view of the current observational data and also due to the upcoming observations, this issue aims to gather all the up to date facts with regard to F(R) gravity applications. All the above problems maybe also be considered in frames of other modified gravities, like modified Gauss-Bonnet gravity, string-inspired theory, teleparallel gravity, Born-Infeld type gravity or non-minimal modified gravity.



[mdpi.com/si/11236](https://mdpi.com/si/11236)

# Special Issue



*universe*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Lorenzo Iorio**

Ministero dell' Istruzione e del  
Merito, Viale Unità di Italia 68,  
70125 Bari, Italy

## Message from the Editor-in-Chief

The multidisciplinary journal *Universe* is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Astrophysics Data System, INSPIRE, CAPus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (Astronomy and Astrophysics) / CiteScore - Q2 (General Physics and Astronomy)

## Contact Us

---

*Universe* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/universe](http://mdpi.com/journal/universe)  
[universe@mdpi.com](mailto:universe@mdpi.com)  
[X@Universe\\_MDPI](https://twitter.com/Universe_MDPI)