

# Special Issue

## Neutron Star Astrophysics

### Message from the Guest Editor

Neutron stars are ideal laboratories to study matter under extreme physical conditions of density, temperature, gravity, or magnetic field, being the only environment in the Universe where such extremes are realized simultaneously. The purpose of this Special Issue is to collect contributions on current theoretical research on the physical and astrophysical processes related to any of the neutron star manifestations (magnetars, radio-pulsars, X-ray pulsars, proto-neutron stars, exotic compact stars), as well as new (or soon-to-come) observational results (NICER, SKA, and other future missions). We aim to provide the reader with an updated overview of the recent advances in the field from the theoretical and observational points of view.

We wish to invite both original and review papers to this Special Issue along any of the lines related to this fascinating area of research. [...] For more information, please visit [here](#).

---

### Guest Editor

Prof. Dr. Jose A. Pons  
University of Alicante, Alicante, Spain

---

### Deadline for manuscript submissions

closed (31 October 2020)



## Universe

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 5.2



[mdpi.com/si/29604](https://mdpi.com/si/29604)

*Universe*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[universe@mdpi.com](mailto:universe@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[universe](https://universe)





# Universe

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 5.2



[mdpi.com/journal/  
universe](https://mdpi.com/journal/universe)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Lorenzo Iorio  
Ministero dell' Istruzione e del Merito, Viale Unità di Italia 68, 70125 Bari,  
Italy

---

### 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, CAPlus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Astronomy and Astrophysics) / CiteScore - Q2 (General Physics and Astronomy)