universe

an Open Access Journal by MDPI

IMPACT FACTOR 2.5

CITESCORE 4.3

Pulsar Magnetosphere and Wind

Guest Editor:

Dr. Jérôme Pétri
Observatoire Astronomique de Strasbourg, Université de Strasbourg, 67000 Strasbourg, France

Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editor

Dear Colleagues,

Neutron stars are fascinating astrophysical objects immersed in strong gravitational and electromagnetic fields. They usually manifest as pulsars, emitting a very stable and broadband electromagnetic signal detected from the radio wavelength up to the hardest gamma rays in the GeV and TeV range. Recent years have witnessed dramatic progress in our understanding of pulsar physics thanks to the development of numerical simulations, laying down the fundamental theoretical aspects of their magnetosphere and wind. Therefore, a global but still rather qualitative picture has slowly emerged on the largest scale. However, some considerations about pulsar magnetospheres remain speculative. Given the current exciting developments on both theoretical and observational sides, a Special Issue focusing on neutron star magnetosphere and wind is timely.

This Special Issue will report recent progress in pulsar electrodynamics, providing the reader with an up-to-date overview of the recent advances in the field, reflecting the current state-of-the-art and progress expected in the near future.

For more information, please visit: mdpi.com/si/67215.

universe

IMPACT FACTOR 2.5

CITESCORE 4.3

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, BA, Italy

Message from the Editor-in-Chief

The multidisciplinary *Universe* journal 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 editorial board, I extend my welcome to this new 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, CAPlus / 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

mdpi.com/journal/universe
universe@mdpi.com
𝕏@Universe_MDPI