

Special Issue

Dispersive Equations of Higher Orders

Message from the Guest Editor

This Special Issue, “Dispersive Equations of High Order”, will be open for the publication of high-quality mathematical papers in the area of linear and quasilinear evolution dispersive equations. The focus will be on the initial and initial-boundary value problems and for them on the topics of local and global well-posedness, qualitative properties of solutions such as regularity and large time decay, the stability of solitons and other special solutions, and control problems. The class of considered equations will mainly consist of high-order dispersive equations such as Korteweg–de Vries, Kawahara, Zakharov–Kuznetsov, Kadomtsev–Petviashvili, and nonlinear Schrödinger equations, but will not be restricted to these. Dispersive equations play an important role in modern mathematical physics. They describe wave processes in liquids and plasma, and are used in optics and electrodynamics. However, in comparison with classical equation types such as elliptic, parabolic, and hyperbolic, there is a lack of issues devoted only to dispersive equations.

Guest Editor

Prof. Dr. Andrei Faminskii

Peoples' Friendship University of Russia (RUDN University), 6 Miklukho-Maklaya Street, 117198 Moscow, Russia

Deadline for manuscript submissions

closed (30 June 2021)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/44224

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

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





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



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



About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).