

## Special Issue

# Symmetry and Asymmetry Applied in Nonlinear Analysis

### Message from the Guest Editors

Nonlinear diffusion equations have been of considerable interest in the study of a variety of diffusion phenomena appeared widely in nature. As an important class of parabolic equations, they are suggested as mathematical models of physical problems in many fields, such as filtration, phase transition, biochemistry, and dynamics of biological groups. Today, research on nonlinear diffusion equations is extensive and in-depth. This Special Issue is devoted to recent investigations of nonlinear diffusion equations. Topics of interest include but are not limited to the following: nonlinear partial differential equation from physics and biology; well-posedness of the model; asymptotic behavior of solutions; blow-up phenomena. Please note that all submitted papers must be within the general scope of the *Symmetry* journal.

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### Guest Editors

Prof. Dr. Yang Cao

Dr. Chengyuan Qu

Prof. Dr. Yuanyuan Nie

Prof. Dr. Hongjie Ju

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### Deadline for manuscript submissions

closed (31 May 2022)



## Symmetry

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## About the Journal

### Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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### Editor-in-Chief

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