

## Special Issue

# Celebrating the 40th Anniversary of the Kardar–Parisi–Zhang (KPZ) Equation

### Message from the Guest Editors

This Special Issue seeks cutting-edge research advancing KPZ theory and its multidisciplinary applications. We welcome contributions addressing, but not limited to, the following topics:

- KPZ universality theory, including critical exponents, scaling behaviors, and large deviation statistics;
- Novel analytical and numerical solvers for KPZ and KPZ-like equations, such as variational approaches, path-integral formulations, and discretization schemes preserving key symmetries;
- Non-equilibrium thermodynamics, including entropy production, fluctuation–dissipation relations, and memory effects;
- Extensions and generalizations of the KPZ equation, such as the GB model, coupled KPZ systems, and KPZ dynamics in correlated or heterogeneous environments;
- Cross-disciplinary applications, including interface growth in materials science, ecological movement patterns, bacterial colony expansion, and thin-film deposition;
- Experimental validation and observation of KPZ universality in natural or engineered systems;
- Interdisciplinary connections, such as directed polymers in random media, Burgers turbulence, and active matter.

### Guest Editors

Prof. Dr. Yi-Cheng Zhang  
Prof. Dr. Zi-Ke Zhang  
Dr. Fei Jing

### Deadline for manuscript submissions

31 December 2026



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### Message from the Editor-in-Chief

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### Editor-in-Chief

Prof. Dr. Kevin H. Knuth

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