

# Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

## Adaptively Sampled Particle Fluids

RRID:SCR\_000083

Type: Tool

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### Proper Citation

Adaptively Sampled Particle Fluids (RRID:SCR\_000083)

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### Resource Information

**URL:** <https://simtk.org/home/aspf>

**Proper Citation:** Adaptively Sampled Particle Fluids (RRID:SCR\_000083)

**Description:** Scalable particle fluid simulation code for Lagrangian particle-based fluid simulation. This adaptive sampling strategy allows using smaller (and thus more) particles in geometrically complex regions, while less particles are used for thick flat fluid volumes. Additionally, a novel distance-based particle surface definition is implemented which hides the particle granularity and allows dynamic resampling near the fluid-air interface. The code is implemented in C++ and should compile on Linux.

**Abbreviations:** ASPF

**Resource Type:** source code, software resource, simulation software, software application

**Keywords:** fluid simulation, lagrangian particle fluid, linux

**Availability:** Free, Available for download, Freely available

**Resource Name:** Adaptively Sampled Particle Fluids

**Resource ID:** SCR\_000083

**Alternate IDs:** nif-0000-23328

**License:** MIT License

**Record Creation Time:** 20220129T080159+0000

**Record Last Update:** 20260818T043105+0000

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### Ratings and Alerts

No rating or validation information has been found for Adaptively Sampled Particle Fluids.

No alerts have been found for Adaptively Sampled Particle Fluids.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.