

**Deep reinforcement learning-based digital twin for droplet microfluidics control**

Gyimah, Nafisat; Scheler, Ott; Rang, Toomas; Pardy, Tamas Physics of Fluids 2023 / art. 082020 <https://doi.org/10.1063/5.0159981>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Experimental study of uni- and bi-directional exchange flows in a large scale rotating trapezoidal channel**

De Falco, Maria Chiara; Adduce, Claudia; Cuthbertson, Alan; Negretti, Maria Eletta; Laanearu, Janek; Malcangio, Daniela; Sommeria, Joel Physics of Fluids 2021 / art. 036602, 17 p. : ill <https://doi.org/10.1063/5.0039251> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Global time evolution of an axisymmetric vortex ring at low Reynolds numbers**

Fukumoto, Yasuhide; Kaplanski, Felix Physics of fluids 2008 / p. 053103-1 - 053103-13 : ill  
<https://pubs.aip.org/aip/pof/article/20/5/053103/964428/Global-time-evolution-of-an-axisymmetric-vortex>

**A Model for the formation of "optimal" vortex rings taking into account viscosity**

Kaplanski, Felix; Rudi, Ülo Physics of fluids 2005 / 8, [7] p <https://pubs.aip.org/aip/pof/article/17/8/087101/361381/A-model-for-the-formation-of-optimal-vortex-rings>

**Reynolds-number effect on vortex ring evolution in a viscous fluid**

Kaplanski, Felix; Fukumoto, Yasuhide; Rudi, Ülo Physics of fluids 2012 / p. 033101-1 - 033101-13  
[https://www.researchgate.net/publication/234946883\\_Reynolds-number\\_Effect\\_on\\_Vortex\\_Ring\\_Evolution](https://www.researchgate.net/publication/234946883_Reynolds-number_Effect_on_Vortex_Ring_Evolution)

**Three-dimensional finite element modelling of chemical environment in droplet-based microfluidic systems for drug therapy applications**

Szomor, Zsombor; Gyimah, Nafisat; Pardy, Tamas; Fürjes, Peter Physics of fluids 2025 / art. 072045  
<https://doi.org/10.1063/5.0275809>

**Wake waves of a planing boat : an experimental model**

Tavakoli, Sasan; Shaghaghi, Poorya; Mancini, Simone; De Luca, Fabio; Dashtimanesh, Abbas Physics of Fluids 2022 / Art. nr. 037104 <https://doi.org/10.1063/5.0084074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)