

Rouslan Krechetnikov

List of Publications by Year in descending order

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38
papers

767
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38
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38
times ranked

686
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Controlling chaos by the system size. <i>Scientific Reports</i> , 2021, 11, 8703. | 3.3 | 1 |
| 2 | Soap film catastrophes. <i>Journal of Fluid Mechanics</i> , 2021, 926, . | 3.4 | 2 |
| 3 | Impulse-driven drop. <i>Journal of Fluid Mechanics</i> , 2020, 895, . | 3.4 | 0 |
| 4 | Pattern formation on time-dependent domains. <i>Journal of Fluid Mechanics</i> , 2019, 880, 136-179. | 3.4 | 6 |
| 5 | Viscosity, surface tension and gravity effects on acoustic reflection and refraction. <i>Journal of Fluid Mechanics</i> , 2019, 860, 822-836. | 3.4 | 1 |
| 6 | Flat plate impact on water. <i>Journal of Fluid Mechanics</i> , 2018, 850, 1066-1116. | 3.4 | 29 |
| 7 | Physics of singularities in pressure-impulse theory. <i>Physical Review Fluids</i> , 2018, 3, . | 2.5 | 2 |
| 8 | Stability on time-dependent domains: convective and dilution effects. <i>Physica D: Nonlinear Phenomena</i> , 2017, 342, 16-23. | 2.8 | 7 |
| 9 | Stability of a growing cylindrical blob. <i>Journal of Fluid Mechanics</i> , 2017, 827, . | 3.4 | 3 |
| 10 | Thermodynamics of chemical Marangoni-driven engines. <i>Soft Matter</i> , 2017, 13, 4931-4950. | 2.7 | 6 |
| 11 | Liquid film dewetting induced by impulsive Joule heating. <i>Physical Review Fluids</i> , 2017, 2, . | 2.5 | 2 |
| 12 | Cusps and cuspidal edges at fluid interfaces: Existence and application. <i>Physical Review E</i> , 2015, 91, 043019. | 2.1 | 2 |
| 13 | Problems on Time-Varying Domains: Formulation, Dynamics, and Challenges. <i>Acta Applicandae Mathematicae</i> , 2015, 137, 123-157. | 1.0 | 45 |
| 14 | Flow around a corner in the water impact problem. <i>Physics of Fluids</i> , 2014, 26, 072107. | 4.0 | 6 |
| 15 | Singular structures on liquid rims. <i>Physics of Fluids</i> , 2014, 26, 032109. | 4.0 | 1 |
| 16 | Origin of ejecta in the water impact problem. <i>Physics of Fluids</i> , 2014, 26, . | 4.0 | 5 |
| 17 | Stability on Time-Dependent Domains. <i>Journal of Nonlinear Science</i> , 2014, 24, 493-523. | 2.1 | 14 |
| 18 | The nature of chemical reaction-driven tip-streaming. <i>Journal of Applied Physics</i> , 2013, 113, . | 2.5 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Structure of Marangoni-driven singularities. <i>Physics of Fluids</i> , 2012, 24, 022111. | 4.0 | 9 |
| 20 | Landau-Levich flow visualization: Revealing the flow topology responsible for the film thickening phenomena. <i>Physics of Fluids</i> , 2012, 24, . | 4.0 | 52 |
| 21 | A linear stability theory on time-invariant and time-dependent spatial domains with symmetry: the drop splash problem. <i>Dynamics of Partial Differential Equations</i> , 2011, 8, 47-67. | 0.9 | 5 |
| 22 | Marangoni-driven singularities via mean-curvature flow. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 242001. | 2.1 | 3 |
| 23 | On application of lubrication approximations to nonunidirectional coating flows with clean and surfactant interfaces. <i>Physics of Fluids</i> , 2010, 22, 092102. | 4.0 | 31 |
| 24 | Stability of liquid sheet edges. <i>Physics of Fluids</i> , 2010, 22, . | 4.0 | 32 |
| 25 | Dissipation-Induced Instability Phenomena in Infinite-Dimensional Systems. <i>Archive for Rational Mechanics and Analysis</i> , 2009, 194, 611-668. | 2.4 | 12 |
| 26 | Crown-forming instability phenomena in the drop splash problem. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 555-559. | 9.4 | 101 |
| 27 | A low-dimensional model of separation bubbles. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1152-1160. | 2.8 | 1 |
| 28 | On the origin and nature of finite-amplitude instabilities in physical systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 412004. | 2.1 | 5 |
| 29 | Rayleigh-Taylor and Richtmyer-Meshkov instabilities of flat and curved interfaces. <i>Journal of Fluid Mechanics</i> , 2009, 625, 387-410. | 3.4 | 37 |
| 30 | Dissipation-induced instabilities in finite dimensions. <i>Reviews of Modern Physics</i> , 2007, 79, 519-553. | 45.6 | 108 |
| 31 | Surfactant effects in the Landau-Levich problem. <i>Journal of Fluid Mechanics</i> , 2006, 559, 429. | 3.4 | 65 |
| 32 | On destabilizing effects of two fundamental non-conservative forces. <i>Physica D: Nonlinear Phenomena</i> , 2006, 214, 25-32. | 2.8 | 37 |
| 33 | On upstream influence in supersonic flows. <i>Journal of Fluid Mechanics</i> , 2005, 539, 167. | 3.4 | 5 |
| 34 | Experimental study of a surfactant-driven fingering phenomenon in a Hele-Shaw cell. <i>Journal of Fluid Mechanics</i> , 2005, 527, 197-216. | 3.4 | 20 |
| 35 | Experimental study of substrate roughness and surfactant effects on the Landau-Levich law. <i>Physics of Fluids</i> , 2005, 17, 102108. | 4.0 | 63 |
| 36 | On physical mechanisms in chemical reaction-driven tip-streaming. <i>Physics of Fluids</i> , 2004, 16, 2556-2566. | 4.0 | 22 |

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|----|---|-----|-----------|
| 37 | On a new surfactant-driven fingering phenomenon in a Hele-Shaw cell. <i>Journal of Fluid Mechanics</i> , 2004, 509, 103-124. | 3.4 | 18 |
| 38 | Hidden Invariances in Problems of Two-Dimensional and Three-Dimensional Wall Jets for Newtonian and Non-Newtonian Fluids. <i>SIAM Journal on Applied Mathematics</i> , 2002, 62, 1837-1855. | 1.8 | 6 |