

Victor Steinberg

List of Publications by Year in descending order

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172
papers

8,183
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times ranked

3215
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Splitting of localized disturbances in viscoelastic channel flow. <i>Journal of Fluid Mechanics</i> , 2022, 941, . | 3.4 | 3 |
| 2 | New direction and perspectives in elastic instability and turbulence in various viscoelastic flow geometries without inertia. <i>Low Temperature Physics</i> , 2022, 48, 492-507. | 0.6 | 5 |
| 3 | Nonmodal elastic instability and elastic waves in weakly perturbed channel flow. <i>Physical Review Fluids</i> , 2022, 7, . | 2.5 | 7 |
| 4 | First coherent structure in elasto-inertial turbulence. <i>Physical Review Fluids</i> , 2022, 7, . | 2.5 | 21 |
| 5 | Elastic Turbulence: An Experimental View on Inertialess Random Flow. <i>Annual Review of Fluid Mechanics</i> , 2021, 53, 27-58. | 25.0 | 87 |
| 6 | Entropic characterization of the coil-stretch transition of polymers in random flows. <i>Physical Review E</i> , 2021, 103, 033107. | 2.1 | 1 |
| 7 | Elastically driven Kelvin-Helmholtz-like instability in straight channel flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 20 |
| 8 | Role of Thermal Noise in Dynamics of Non-equilibrium Systems: Macro-, Meso- and Microscopic. <i>Journal of Statistical Physics</i> , 2019, 175, 664-680. | 1.2 | 3 |
| 9 | Elastic Alfvén waves in elastic turbulence. <i>Nature Communications</i> , 2019, 10, 652. | 12.8 | 38 |
| 10 | Stokes flow analogous to viscous electron current in graphene. <i>Nature Communications</i> , 2019, 10, 937. | 12.8 | 11 |
| 11 | Scaling Relations in Elastic Turbulence. <i>Physical Review Letters</i> , 2019, 123, 234501. | 7.8 | 29 |
| 12 | Precise measurements of torque in von Karman swirling flow driven by a bladed disk. <i>Journal of Turbulence</i> , 2018, 19, 647-663. | 1.4 | 2 |
| 13 | von Kármán swirling flow between a rotating and a stationary smooth disk: Experiment. <i>Physical Review Fluids</i> , 2018, 3, . | 2.5 | 5 |
| 14 | Drag enhancement and drag reduction in viscoelastic flow. <i>Physical Review Fluids</i> , 2018, 3, . | 2.5 | 29 |
| 15 | Mixing layer instability and vorticity amplification in a creeping viscoelastic flow. <i>Physical Review Fluids</i> , 2018, 3, . | 2.5 | 14 |
| 16 | On the role of initial velocities in pair dispersion in a microfluidic chaotic flow. <i>Nature Communications</i> , 2017, 8, 468. | 12.8 | 14 |
| 17 | Elastic wake instabilities in a creeping flow between two obstacles. <i>Physical Review Fluids</i> , 2017, 2, . | 2.5 | 39 |
| 18 | Polymer concentration and properties of elastic turbulence in a von Karman swirling flow. <i>Physical Review Fluids</i> , 2017, 2, . | 2.5 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Influence of polymer additives on turbulence in von Karman swirling flow between two disks. II. Physics of Fluids, 2016, 28, 033101. | 4.0 | 5 |
| 20 | Intermediate regime and a phase diagram of red blood cell dynamics in a linear flow. Physical Review E, 2016, 94, 062412. | 2.1 | 8 |
| 21 | Long-range hydrodynamic effect due to a single vesicle in linear flow. Europhysics Letters, 2016, 113, 38003. | 2.0 | 1 |
| 22 | Oscillatory elastic instabilities in an extensional viscoelastic flow. Soft Matter, 2016, 12, 2186-2191. | 2.7 | 8 |
| 23 | Turbulence and turbulent drag reduction in swirling flow: Inertial versus viscous forcing. Physical Review E, 2015, 92, 023001. | 2.1 | 4 |
| 24 | Early turbulence in von Karman swirling flow of polymer solutions. Europhysics Letters, 2015, 109, 14006. | 2.0 | 4 |
| 25 | Torque and pressure fluctuations in turbulent von Karman swirling flow between two counter-rotating disks. I. Physics of Fluids, 2014, 26, 055102. | 4.0 | 12 |
| 26 | Single Polymer Dynamics in A Random Flow. Macromolecular Symposia, 2014, 337, 34-43. | 0.7 | 18 |
| 27 | Complex Dynamics of Compound Vesicles in Linear Flow. Physical Review Letters, 2014, 112, 138106. | 7.8 | 21 |
| 28 | Wrinkling instability of vesicles in steady linear flow. Europhysics Letters, 2014, 107, 28001. | 2.0 | 4 |
| 29 | Fluid vesicles in flow. Advances in Colloid and Interface Science, 2014, 208, 129-141. | 14.7 | 84 |
| 30 | Characteristic spatial scale of vesicle pair interactions in a plane linear flow. Physical Review E, 2012, 85, 056306. | 2.1 | 20 |
| 31 | Onset and universality of turbulent drag reduction in von Karman swirling flow. Europhysics Letters, 2012, 100, 24001. | 2.0 | 6 |
| 32 | Amplification of Thermal Noise by Vesicle Dynamics. Physical Review Letters, 2012, 109, 268103. | 7.8 | 27 |
| 33 | Statistics and scaling properties of temperature field in symmetrical non-Oberbeck-Boussinesq turbulent convection. Physics of Fluids, 2012, 24, 045102. | 4.0 | 4 |
| 34 | Coagulation cascade of surface plumes in viscoelastic rimming flow. Europhysics Letters, 2011, 96, 28004. | 2.0 | 1 |
| 35 | Elastic turbulence in a curvilinear channel flow. Physical Review E, 2011, 84, 056325. | 2.1 | 26 |
| 36 | Dynamics of vesicles in shear and rotational flows: Modal dynamics and phase diagram. Physics of Fluids, 2011, 23, . | 4.0 | 40 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | 10.1063/1.3556439.2. , 2011, , . | | 1 |
| 38 | Strong symmetrical non-Oberbeckâ€“Boussinesq turbulent convection and the role of compressibility. Physics of Fluids, 2010, 22, 035108. | 4.0 | 18 |
| 39 | Molecular sensor of elastic stress in a random flow. Europhysics Letters, 2010, 90, 44002. | 2.0 | 24 |
| 40 | Stretching of polymer in a random flow: Effect of a shear rate. Europhysics Letters, 2010, 90, 44005. | 2.0 | 26 |
| 41 | Mixing of passive tracers in the decay Batchelor regime of a channel flow. Physics of Fluids, 2010, 22, . | 4.0 | 25 |
| 42 | 10.1063/1.3522400.1. , 2010, , . | | 0 |
| 43 | Phase Diagram of Single Vesicle Dynamical States in Shear Flow. Physical Review Letters, 2009, 102, 118105. | 7.8 | 98 |
| 44 | Power and Pressure Fluctuations in Elastic Turbulence over a Wide Range of Polymer Concentrations. Physical Review Letters, 2009, 102, 124503. | 7.8 | 46 |
| 45 | Elastic stresses in random flow of a dilute polymer solution and the turbulent drag reduction problem. Comptes Rendus Physique, 2009, 10, 728-739. | 0.9 | 10 |
| 46 | Concentration dependence of the longest relaxation times of dilute and semi-dilute polymer solutions. Journal of Rheology, 2009, 53, 1069-1085. | 2.6 | 107 |
| 47 | Dynamics of a vesicle in general flow. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11444-11447. | 7.1 | 104 |
| 48 | Dynamics of interacting vesicles and rheology of vesicle suspension in shear flow. Europhysics Letters, 2008, 82, 58005. | 2.0 | 65 |
| 49 | Critical Dynamics of Vesicle Stretching Transition in Elongational Flow. Physical Review Letters, 2008, 101, 048101. | 7.8 | 72 |
| 50 | Shear Instability in Fluids with a Density-Dependent Viscosity. Physical Review Letters, 2008, 100, 254502. | 7.8 | 14 |
| 51 | Critical slowing down in polymer dynamics near the coil-stretch transition in elongation flow. Physical Review E, 2008, 78, 040801. | 2.1 | 24 |
| 52 | Vesicle Dynamics in Time-Dependent Elongation Flow: Wrinkling Instability. Physical Review Letters, 2007, 99, 178102. | 7.8 | 75 |
| 53 | Elastic turbulence in von Karman swirling flow between two disks. Physics of Fluids, 2007, 19, 053104. | 4.0 | 78 |
| 54 | Non-Newtonian Viscosity of Complex-Plasma Fluids. Physical Review Letters, 2007, 98, 145003. | 7.8 | 51 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Longest Relaxation Times of Double-Stranded and Single-Stranded DNA. <i>Macromolecules</i> , 2007, 40, 2172-2176. | 4.8 | 22 |
| 56 | On the Lamb vector and the hydrodynamic charge. <i>Experiments in Fluids</i> , 2007, 42, 291-299. | 2.4 | 18 |
| 57 | Role of Elastic Stress in Statistical and Scaling Properties of Elastic Turbulence. <i>Physical Review Letters</i> , 2006, 96, 214502. | 7.8 | 46 |
| 58 | Continuous particle size separation and size sorting using ultrasound in a microchannel. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006, 2006, P01012-P01012. | 2.3 | 88 |
| 59 | Transition to Tumbling and Two Regimes of Tumbling Motion of a Vesicle in Shear Flow. <i>Physical Review Letters</i> , 2006, 96, 036001. | 7.8 | 187 |
| 60 | Statistics of Tumbling of a Single Polymer Molecule in Shear Flow. <i>Physical Review Letters</i> , 2006, 96, 038304. | 7.8 | 119 |
| 61 | Validity of the Taylor hypothesis in a random spatially smooth flow. <i>Physics of Fluids</i> , 2005, 17, 103101. | 4.0 | 40 |
| 62 | Orientation and Dynamics of a Vesicle in Tank-Treading Motion in Shear Flow. <i>Physical Review Letters</i> , 2005, 95, 258101. | 7.8 | 201 |
| 63 | Single-polymer dynamics: Coil-stretch transition in a random flow. <i>Europhysics Letters</i> , 2005, 71, 221-227. | 2.0 | 72 |
| 64 | Mixing by Polymers: Experimental Test of Decay Regime of Mixing. <i>Physical Review Letters</i> , 2004, 92, 164501. | 7.8 | 60 |
| 65 | Flow induced ultrasound scattering: Experimental studies. <i>Physics of Fluids</i> , 2004, 16, 1587-1602. | 4.0 | 5 |
| 66 | Highly Resolved Fluid Flows: "Liquid Plasmas" at the Kinetic Level. <i>Physical Review Letters</i> , 2004, 92, 175004. | 7.8 | 80 |
| 67 | Chaotic flow and efficient mixing in a microchannel with a polymer solution. <i>Physical Review E</i> , 2004, 69, 066305. | 2.1 | 135 |
| 68 | Statistics of particle pair separations in the elastic turbulent flow of a dilute polymer solution. <i>Europhysics Letters</i> , 2004, 68, 529-535. | 2.0 | 12 |
| 69 | Elastic turbulence in curvilinear flows of polymer solutions. <i>New Journal of Physics</i> , 2004, 6, 29-29. | 2.9 | 238 |
| 70 | Levitation and agglomeration of magnetic grains in a complex (dusty) plasma with magnetic field. <i>New Journal of Physics</i> , 2003, 5, 24-24. | 2.9 | 65 |
| 71 | Reentrant Hexagons in Non-Boussinesq Rayleigh-Bénard Convection: Effect of Compressibility. <i>Physical Review Letters</i> , 2002, 88, 244503. | 7.8 | 17 |
| 72 | Internal viscoelastic waves in a circular Couette flow of a dilute polymer solution. <i>Europhysics Letters</i> , 2002, 60, 704-709. | 2.0 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Fluorescent ultrahigh-molecular-weight polyacrylamide probes for dynamic flow systems: Synthesis, conformational behavior and imaging. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 1833-1843. | 2.2 | 11 |
| 74 | Vertical Pairing of Identical Particles Suspended in the Plasma Sheath. <i>Physical Review Letters</i> , 2001, 86, 4540-4543. | 7.8 | 93 |
| 75 | New light scattering technique based on phase time derivative correlation function. <i>Europhysics Letters</i> , 2001, 56, 808-814. | 2.0 | 2 |
| 76 | Efficient mixing at low Reynolds numbers using polymer additives. <i>Nature</i> , 2001, 410, 905-908. | 27.8 | 323 |
| 77 | Onset of Wave Drag Due to Generation of Capillary-Gravity Waves by a Moving Object as a Critical Phenomenon. <i>Physical Review Letters</i> , 2001, 86, 2557-2560. | 7.8 | 24 |
| 78 | Stretching of Polymers in a Random Three-Dimensional Flow. <i>Physical Review Letters</i> , 2001, 86, 934-937. | 7.8 | 61 |
| 79 | Elastic turbulence in a polymer solution flow. <i>Nature</i> , 2000, 405, 53-55. | 27.8 | 686 |
| 80 | Rigid and differential plasma crystal rotation induced by magnetic fields. <i>Physical Review E</i> , 2000, 61, 1890-1898. | 2.1 | 209 |
| 81 | Nonlinear Vertical Oscillations of a Particle in a Sheath of a rf Discharge. <i>Physical Review Letters</i> , 2000, 85, 4060-4063. | 7.8 | 52 |
| 82 | High Rayleigh Number Turbulent Convection in a Gas near the Gas-Liquid Critical Point. <i>Physical Review Letters</i> , 1999, 83, 3641-3644. | 7.8 | 95 |
| 83 | Spectra and Statistics of Velocity and Temperature Fluctuations in Turbulent Convection. <i>Physical Review Letters</i> , 1999, 83, 4760-4763. | 7.8 | 72 |
| 84 | Elastic vs . inertial instability in a polymer solution flow. <i>Europhysics Letters</i> , 1998, 43, 165-170. | 2.0 | 43 |
| 85 | Mechanism of elastic instability in Couette flow of polymer solutions: Experiment. <i>Physics of Fluids</i> , 1998, 10, 2451-2463. | 4.0 | 139 |
| 86 | Acoustic Phase Conjugation in Superfluid Helium. <i>Physical Review Letters</i> , 1998, 81, 5812-5815. | 7.8 | 2 |
| 87 | Elastic versus inertial instability in Couette-Taylor flow of a polymer solution: Review. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 78, 253-263. | 0.6 | 20 |
| 88 | On an analog of the Aharonov-Bohm effect in superfluid helium. <i>Europhysics Letters</i> , 1997, 38, 297-300. | 2.0 | 12 |
| 89 | Universal Broadening of Frequency Spectra in Parametrically Driven Systems. <i>Physical Review Letters</i> , 1997, 78, 4383-4386. | 7.8 | 7 |
| 90 | Surface Gravity Waves due to a Moving Body: Onset of Wave Resistance as a Critical Phenomenon. <i>Physical Review Letters</i> , 1997, 79, 4178-4181. | 7.8 | 7 |

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|-----|---|------|-----------|
| 91 | Large-scale flow and spiral core instability in Rayleigh-Bénard convection. <i>Physical Review E</i> , 1997, 55, R4877-R4880. | 2.1 | 14 |
| 92 | Solitary Vortex Pairs in Viscoelastic Couette Flow. <i>Physical Review Letters</i> , 1997, 78, 1460-1463. | 7.8 | 80 |
| 93 | Critical Phenomena in Hydrodynamics. <i>Europhysics News</i> , 1996, 27, 143-147. | 0.3 | 17 |
| 94 | Dynamics of Crack Propagation in Brittle Materials. <i>Journal De Physique II</i> , 1996, 6, 1493-1516. | 0.9 | 44 |
| 95 | Couette-Taylor Flow in a Dilute Polymer Solution. <i>Physical Review Letters</i> , 1996, 77, 1480-1483. | 7.8 | 111 |
| 96 | Spin-up and nucleation of vortices in superfluid He4. <i>Physical Review B</i> , 1996, 54, 13072-13082. | 3.2 | 12 |
| 97 | Observation of Coexisting Upflow and Downflow Hexagons in Boussinesq Rayleigh-Bénard Convection. <i>Physical Review Letters</i> , 1996, 76, 756-759. | 7.8 | 68 |
| 98 | Parametric Generation of Second Sound by First Sound in Superfluid Helium. <i>Physical Review Letters</i> , 1996, 76, 2105-2108. | 7.8 | 23 |
| 99 | Stability of multicharged vortices in a model of superflow. <i>Physical Review B</i> , 1996, 53, 75-78. | 3.2 | 51 |
| 100 | Burgers' equation and the evolution of nonlinear second sound. <i>Physica D: Nonlinear Phenomena</i> , 1995, 84, 635-644. | 2.8 | 10 |
| 101 | Scattering of Second Sound Waves by Quantum Vorticity. <i>Physical Review Letters</i> , 1995, 75, 1102-1105. | 7.8 | 5 |
| 102 | Experimental Study of the Instability of Crack Propagation in Brittle Materials. <i>Europhysics Letters</i> , 1995, 30, 337-342. | 2.0 | 53 |
| 103 | Experimental evaluation of the intrinsic noise in the Couette-Taylor system with an axial flow. <i>Physical Review E</i> , 1994, 49, 1309-1319. | 2.1 | 19 |
| 104 | Competing states in a Couette-Taylor system with an axial flow. <i>Physical Review E</i> , 1994, 49, 4077-4086. | 2.1 | 23 |
| 105 | Burst and collapse in traveling-wave convection of a binary fluid. <i>Physical Review E</i> , 1994, 50, 3712-3722. | 2.1 | 33 |
| 106 | Phase separation of a critical binary mixture subjected to a temperature gradient. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 208, 373-393. | 2.6 | 29 |
| 107 | Phase Gradient Mechanism of Self-Focusing and Collapse in Non-Linear Dispersive Travelling Waves. <i>Europhysics Letters</i> , 1994, 28, 237-243. | 2.0 | 9 |
| 108 | Transition between spiral and target states in Rayleigh-Bénard convection. <i>Nature</i> , 1994, 367, 345-347. | 27.8 | 103 |

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|-----|---|-----|-----------|
| 109 | Absolute and convective instabilities and noise-sustained structures in the Couette-Taylor system with an axial flow. <i>Physical Review E</i> , 1994, 49, 1291-1308. | 2.1 | 37 |
| 110 | Rotating Rayleigh-Bénard convection: asymmetric modes and vortex states. <i>Journal of Fluid Mechanics</i> , 1993, 249, 135. | 3.4 | 130 |
| 111 | Measurement of reflection of traveling waves near the onset of binary-fluid convection. <i>Physical Review E</i> , 1993, 48, R661-R664. | 2.1 | 9 |
| 112 | Rayleigh-Bénard convection near the gas-liquid critical point. <i>Physical Review Letters</i> , 1993, 70, 3888-3891. | 7.8 | 109 |
| 113 | Phase slippage, nonadiabatic effect, and dynamics of a source of traveling waves. <i>Physical Review Letters</i> , 1993, 71, 3291-3294. | 7.8 | 11 |
| 114 | Transition from confined to extended traveling waves in a convective binary mixture. <i>Physical Review A</i> , 1992, 46, R2996-R2999. | 2.5 | 5 |
| 115 | Rotating Rayleigh-Bénard convection: Kuppers-Lortz transition. <i>Physica D: Nonlinear Phenomena</i> , 1991, 51, 596-607. | 2.8 | 47 |
| 116 | Long- and Short-Range Interactions of Defects in Anisotropic Hydrodynamical Systems. <i>Europhysics Letters</i> , 1991, 15, 167-172. | 2.0 | 16 |
| 117 | Mechanism of Transition to a Weak Turbulence in Extended Anisotropic Systems. <i>Europhysics Letters</i> , 1991, 15, 597-602. | 2.0 | 31 |
| 118 | Eckhaus instability and defect nucleation in two-dimensional anisotropic systems. <i>Physical Review A</i> , 1991, 43, 5728-5731. | 2.5 | 27 |
| 119 | Asymmetric modes and the transition to vortex structures in rotating Rayleigh-Bénard convection. <i>Physical Review Letters</i> , 1991, 67, 2473-2476. | 7.8 | 90 |
| 120 | Noise-Modulated Propagating Pattern in a Convectively Unstable System. <i>Physical Review Letters</i> , 1991, 67, 3392-3395. | 7.8 | 53 |
| 121 | Stationary convection in a binary mixture. <i>Physical Review A</i> , 1991, 43, 707-722. | 2.5 | 42 |
| 122 | Convective vs. Absolute Instability in Couette-Taylor Flow with an Axial Flow. <i>Europhysics Letters</i> , 1991, 14, 331-336. | 2.0 | 40 |
| 123 | Weakly nonlinear states as propagating fronts in convecting binary mixtures. <i>Physical Review A</i> , 1990, 41, 5743-5746. | 2.5 | 12 |
| 124 | Experimental studies of defect dynamics and interaction in electrohydrodynamic convection. <i>Physical Review A</i> , 1990, 42, 5998-6008. | 2.5 | 65 |
| 125 | Traveling Waves and Defect-Initiated Turbulence in Electroconvecting Nematics. <i>Physical Review Letters</i> , 1989, 62, 756-759. | 7.8 | 160 |
| 126 | Fineberget al. reply. <i>Physical Review Letters</i> , 1989, 63, 579-579. | 7.8 | 4 |

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|-----|---|-----|-----------|
| 127 | Mass transport in propagating patterns of convection. Physica D: Nonlinear Phenomena, 1989, 37, 341-358. | 2.8 | 7 |
| 128 | Pattern selection and transition to turbulence in propagating waves. Physica D: Nonlinear Phenomena, 1989, 37, 359-383. | 2.8 | 84 |
| 129 | Interactions and dynamics of topological defects: Theory and experiments near the onset of weak turbulence. Physical Review Letters, 1989, 63, 1237-1240. | 7.8 | 89 |
| 130 | Depression of the superfluid transition temperature in He4 by a heat current. Physical Review Letters, 1988, 60, 1522-1525. | 7.8 | 69 |
| 131 | Nonlinear pattern and wave-number selection in convecting binary mixtures. Physical Review A, 1988, 38, 4939-4942. | 2.5 | 31 |
| 132 | Universality of Physical Properties of Disordered Alloys. Physical Review Letters, 1988, 60, 2402-2405. | 7.8 | 47 |
| 133 | Mass Transport in Propagating Patterns of Convection. Physical Review Letters, 1988, 60, 2030-2033. | 7.8 | 34 |
| 134 | Spatially and Temporally Modulated Traveling-Wave Pattern in Convecting Binary Mixtures. Physical Review Letters, 1988, 61, 838-841. | 7.8 | 78 |
| 135 | Temporal Modulation of Traveling Waves. Physical Review Letters, 1988, 61, 2449-2452. | 7.8 | 81 |
| 136 | Vortex-front propagation in Rayleigh-Bénard convection. Physical Review Letters, 1987, 58, 1332-1335. | 7.8 | 75 |
| 137 | Multistability and confined traveling-wave patterns in a convecting binary mixture. Physical Review A, 1987, 35, 2757-2760. | 2.5 | 214 |
| 138 | Singularity in the Kapitza resistance between gold and superfluid He4 near T λ . Physical Review Letters, 1987, 58, 377-380. | 7.8 | 50 |
| 139 | Phase diagram of externally modulated Rayleigh-Bénard system near the codimension-two point. Physical Review A, 1986, 34, 4171-4180. | 2.5 | 4 |
| 140 | Competing Patterns in a Convective Binary Mixture. Physical Review Letters, 1986, 57, 2018-2021. | 7.8 | 88 |
| 141 | Multicriticality in viscoelastic fluids heated from below. Physical Review A, 1986, 33, 1454-1457. | 2.5 | 31 |
| 142 | Flow patterns and nonlinear behavior of traveling waves in a convective binary fluid. Physical Review A, 1986, 34, 693-696. | 2.5 | 102 |
| 143 | Chaotic behavior in externally modulated hydrodynamic systems. Physical Review A, 1985, 32, 702-705. | 2.5 | 21 |
| 144 | Time Dependence of Flow Patterns near the Convective Threshold in a Cylindrical Container. Physical Review Letters, 1985, 54, 1373-1376. | 7.8 | 106 |

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|-----|--|-----|-----------|
| 145 | Codimension-2 bifurcations for convection in binary fluid mixtures. <i>Physical Review A</i> , 1984, 30, 2548-2561. | 2.5 | 116 |
| 146 | Amplitude equations for the onset of convection in a reactive mixture in a porous medium. <i>Journal of Chemical Physics</i> , 1984, 80, 431-435. | 3.0 | 27 |
| 147 | Analog of the Benjamin-Feir instability near the onset of convection in binary fluid mixtures. <i>Physical Review A</i> , 1984, 29, 2303-2304. | 2.5 | 12 |
| 148 | Crossover from critical to tricritical behavior in a nonequilibrium system: The convective instability in a binary fluid mixture. <i>Physical Review A</i> , 1984, 30, 3366-3368. | 2.5 | 21 |
| 149 | Convective instability of a superfluid ³ He- ⁴ He mixture in a superleak. <i>Journal of Low Temperature Physics</i> , 1983, 53, 177-187. | 1.4 | 1 |
| 150 | Nanokelvin thermometry at temperatures near 2 K. <i>Journal of Low Temperature Physics</i> , 1983, 53, 255-283. | 1.4 | 33 |
| 151 | Nonlinear effects in the convective instability of a binary mixture in a porous medium near threshold. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1983, 93, 333-336. | 2.1 | 35 |
| 152 | Convective instabilities in binary mixtures in a porous medium. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1983, 119, 327-338. | 2.6 | 63 |
| 153 | Onset of convective instabilities in binary liquid mixtures with fast chemical reactions. <i>Physics of Fluids</i> , 1983, 26, 393. | 1.4 | 15 |
| 154 | Convective instabilities of binary mixtures with fast chemical reaction in a porous medium. <i>Journal of Chemical Physics</i> , 1983, 78, 2655-2660. | 3.0 | 46 |
| 155 | Amplitude equation near a polycritical point for the convective instability of a binary fluid mixture in a porous medium. <i>Physical Review A</i> , 1983, 27, 591-593. | 2.5 | 56 |
| 156 | Two-fluid effects in the convective instability of ³ He- ⁴ He superfluid mixtures. <i>Physical Review B</i> , 1983, 28, 1618-1620. | 3.2 | 12 |
| 157 | Investigation of liquid eutectic near its crystallization point in a centrifuge. <i>Physics and Chemistry of Liquids</i> , 1982, 12, 45-51. | 1.2 | 1 |
| 158 | New crystalline phases of an equiatomic K-Cs alloy at low temperature. <i>Journal of Physics and Chemistry of Solids</i> , 1981, 42, 19-22. | 4.0 | 13 |
| 159 | Investigation of the phase diagram for K-Cs alloy "new crystalline phases. <i>Journal of Physics and Chemistry of Solids</i> , 1981, 42, 23-27. | 4.0 | 14 |
| 160 | Oscillatory convective instability in a superfluid ³ He- ⁴ He mixture. <i>Physical Review A</i> , 1981, 24, 2584-2594. | 2.5 | 17 |
| 161 | Stationary convective instability in a superfluid ³ He- ⁴ He mixture. <i>Physical Review A</i> , 1981, 24, 975-987. | 2.5 | 29 |
| 162 | Weak melting in a K-Cs mixture. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1980, 79, 183-185. | 2.1 | 7 |

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|-----|---|-----|-----------|
| 163 | Probable electronic transition in K ₂ Cs compound at low temperature. Journal of Physics F: Metal Physics, 1980, 10, L261-L265. | 1.6 | 3 |
| 164 | Memory effects in the motion of a suspended particle in a turbulent fluid. Physics of Fluids, 1980, 23, 2154. | 1.4 | 20 |
| 165 | Metallic-Nonmetallic Phase Coexistence above the Consolute Point of Sodium-Ammonia Solution. Physical Review Letters, 1980, 45, 1338-1341. | 7.8 | 18 |
| 166 | Magnification of singularities of the thermodynamic quantities near critical points in the presence of a chemical reaction. Physical Review A, 1980, 22, 1287-1292. | 2.5 | 8 |
| 167 | Undamped Second-Sound Waves in aHe ³ -He ⁴ Mixture Heated from Below. Physical Review Letters, 1980, 45, 2050-2052. | 7.8 | 14 |
| 168 | Instability of ionization equilibrium of a weakly ionized three-component plasma. Physical Review A, 1979, 20, 1236-1245. | 2.5 | 17 |
| 169 | Multiple solutions to the equation of the law of mass action. Chemical Physics Letters, 1978, 57, 455-457. | 2.6 | 2 |
| 170 | Thermodynamic stability and phase transitions in systems with a chemical reaction. Journal of Chemical Physics, 1978, 69, 2763. | 3.0 | 21 |
| 171 | On the stability of chemical equilibrium. Journal of Chemical Physics, 1976, 65, 847-848. | 3.0 | 5 |
| 172 | First-Order Phase Transition in Metallic Vapors. Physical Review Letters, 1975, 35, 1588-1591. | 7.8 | 12 |