

Eckart Meiburg

List of Publications by Year in descending order

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156
papers

5,937
citations

57631

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158
docs citations

158
times ranked

2492
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis and direct numerical simulation of the flow at a gravity-current head. Part 1. Flow topology and front speed for slip and no-slip boundaries. <i>Journal of Fluid Mechanics</i> , 2000, 418, 189-212.	1.4	380
2	Turbidity Currents and Their Deposits. <i>Annual Review of Fluid Mechanics</i> , 2010, 42, 135-156.	10.8	368
3	Three-dimensional vortex breakdown in swirling jets and wakes: direct numerical simulation. <i>Journal of Fluid Mechanics</i> , 2003, 486, 331-378.	1.4	225
4	High-resolution simulations of particle-driven gravity currents. <i>International Journal of Multiphase Flow</i> , 2002, 28, 279-300.	1.6	190
5	Mixing and dissipation in particle-driven gravity currents. <i>Journal of Fluid Mechanics</i> , 2005, 545, 339.	1.4	156
6	Density-driven unstable flows of miscible fluids in a Hele-Shaw cell. <i>Journal of Fluid Mechanics</i> , 2002, 451, 239-260.	1.4	152
7	Miscible displacements in capillary tubes. Part 2. Numerical simulations. <i>Journal of Fluid Mechanics</i> , 1996, 326, 57-90.	1.4	148
8	Spiral vortex breakdown as a global mode. <i>Journal of Fluid Mechanics</i> , 2006, 549, 71.	1.4	137
9	Numerical investigation of three-dimensionally evolving jets subject to axisymmetric and azimuthal perturbations. <i>Journal of Fluid Mechanics</i> , 1991, 230, 271-318.	1.4	127
10	Miscible porous media displacements in the quarter five-spot configuration. Part 1. The homogeneous case. <i>Journal of Fluid Mechanics</i> , 1998, 371, 233-268.	1.4	117
11	The non-Boussinesq lock-exchange problem. Part 2. High-resolution simulations. <i>Journal of Fluid Mechanics</i> , 2005, 537, 125.	1.4	108
12	Miscible rectilinear displacements with gravity override. Part 1. Homogeneous porous medium. <i>Journal of Fluid Mechanics</i> , 2000, 420, 225-257.	1.4	107
13	Small particles in homogeneous turbulence: Settling velocity enhancement by two-way coupling. <i>Physics of Fluids</i> , 2006, 18, 027102.	1.6	104
14	The accumulation and dispersion of heavy particles in forced two-dimensional mixing layers. I. The fundamental and subharmonic cases. <i>Physics of Fluids</i> , 1994, 6, 1116-1132.	1.6	96
15	Nonlinear unstable viscous fingers in Hele-Shaw flows. II. Numerical simulation. <i>Physics of Fluids</i> , 1988, 31, 429.	1.4	86
16	High-resolution numerical simulations of resuspending gravity currents: Conditions for self-sustainment. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	84
17	A collision model for grain-resolving simulations of flows over dense, mobile, polydisperse granular sediment beds. <i>Journal of Computational Physics</i> , 2017, 340, 105-127.	1.9	79
18	Miscible porous media displacements in the quarter five-spot configuration. Part 2. Effect of heterogeneities. <i>Journal of Fluid Mechanics</i> , 1998, 371, 269-299.	1.4	78

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19	Stability of miscible core-annular flows with viscosity stratification. <i>Journal of Fluid Mechanics</i> , 2007, 592, 23-49.	1.4	74
20	Miscible quarter five-spot displacements in a Hele-Shaw cell and the role of flow-induced dispersion. <i>Physics of Fluids</i> , 1999, 11, 1705-1716.	1.6	71
21	Modeling Gravity and Turbidity Currents: Computational Approaches and Challenges. <i>Applied Mechanics Reviews</i> , 2015, 67, .	4.5	69
22	A numerical study of the convergence properties of ENO schemes. <i>Journal of Scientific Computing</i> , 1990, 5, 151-167.	1.1	68
23	Lock-exchange gravity currents with a high volume of release propagating over a periodic array of obstacles. <i>Journal of Fluid Mechanics</i> , 2011, 672, 570-605.	1.4	65
24	The accumulation and dispersion of heavy particles in forced two-dimensional mixing layers. Part 2: The effect of gravity. <i>Physics of Fluids</i> , 1995, 7, 1241-1264.	1.6	63
25	Numerical simulation of miscible displacement processes in porous media flows under gravity. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 2644-2660.	1.6	61
26	Lock-exchange flows in sloping channels. <i>Journal of Fluid Mechanics</i> , 2007, 577, 53-77.	1.4	60
27	Gravity currents impinging on bottom-mounted square cylinders: flow fields and associated forces. <i>Journal of Fluid Mechanics</i> , 2009, 631, 65-102.	1.4	59
28	Miscible displacements in capillary tubes: Influence of Korteweg stresses and divergence effects. <i>Physics of Fluids</i> , 2002, 14, 2052.	1.6	58
29	Three-dimensional miscible displacement simulations in homogeneous porous media with gravity override. <i>Journal of Fluid Mechanics</i> , 2003, 494, 95-117.	1.4	58
30	Sediment-laden fresh water above salt water: linear stability analysis. <i>Journal of Fluid Mechanics</i> , 2012, 691, 279-314.	1.4	58
31	Turbidity currents interacting with three-dimensional seafloor topography. <i>Journal of Fluid Mechanics</i> , 2014, 745, 409-443.	1.4	58
32	Sediment-laden fresh water above salt water: nonlinear simulations. <i>Journal of Fluid Mechanics</i> , 2015, 762, 156-195.	1.4	58
33	Dynamics of heavy particles in a Burgers vortex. <i>Physics of Fluids</i> , 1995, 7, 400-410.	1.6	55
34	Dynamics of small, spherical particles in vortical and stagnation point flow fields. <i>Physics of Fluids</i> , 1997, 9, 299-314.	1.6	54
35	TURBINS: An immersed boundary, Navier-Stokes code for the simulation of gravity and turbidity currents interacting with complex topographies. <i>Computers and Fluids</i> , 2011, 45, 14-28.	1.3	52
36	Density-driven instabilities of miscible fluids in a Hele-Shaw cell: linear stability analysis of the three-dimensional Stokes equations. <i>Journal of Fluid Mechanics</i> , 2002, 451, 261-282.	1.4	49

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37	Numerical simulation of finite Reynolds number suspension drops settling under gravity. <i>Physics of Fluids</i> , 2005, 17, 037101.	1.6	49
38	Gravity current flow past a circular cylinder: forces, wall shear stresses and implications for scour. <i>Journal of Fluid Mechanics</i> , 2010, 649, 69-102.	1.4	49
39	Long-range sediment transport in the world's oceans by stably stratified turbidity currents. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 8608-8620.	1.0	49
40	High-Accuracy Implicit Finite-Difference Simulations of Homogeneous and Heterogeneous Miscible-Porous-Medium Flows. <i>SPE Journal</i> , 2000, 5, 129-137.	1.7	48
41	Miscible droplets in a porous medium and the effects of Korteweg stresses. <i>Physics of Fluids</i> , 2001, 13, 2447-2456.	1.6	47
42	Miscible displacements in Hele-Shaw cells: two-dimensional base states and their linear stability. <i>Journal of Fluid Mechanics</i> , 2006, 558, 329.	1.4	47
43	Polydisperse turbidity currents propagating over complex topography: Comparison of experimental and depth-resolved simulation results. <i>Computers and Geosciences</i> , 2013, 53, 141-153.	2.0	47
44	Tail structure and bed friction velocity distribution of gravity currents propagating over an array of obstacles. <i>Journal of Fluid Mechanics</i> , 2012, 694, 252-291.	1.4	45
45	Convective/absolute instability in miscible core-annular flow. Part 2. Numerical simulations and nonlinear global modes. <i>Journal of Fluid Mechanics</i> , 2009, 618, 323-348.	1.4	44
46	Linear stability of radial displacements in porous media: Influence of velocity-induced dispersion and concentration-dependent diffusion. <i>Physics of Fluids</i> , 2004, 16, 3592-3598.	1.6	40
47	Settling of cohesive sediment: particle-resolved simulations. <i>Journal of Fluid Mechanics</i> , 2019, 858, 5-44.	1.4	40
48	Numerical investigation of three-dimensionally evolving jets under helical perturbations. <i>Journal of Fluid Mechanics</i> , 1992, 243, 457.	1.4	39
49	Lock-exchange gravity currents with a low volume of release propagating over an array of obstacles. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 2752-2768.	1.0	39
50	On the motion of small spherical bubbles in two-dimensional vortical flows. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 2326-2341.	1.6	37
51	Confronting Grand Challenges in environmental fluid mechanics. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	37
52	Development of boundary conditions for direct numerical simulations of three-dimensional vortex breakdown phenomena in semi-infinite domains. <i>Computers and Fluids</i> , 2004, 33, 1225-1250.	1.3	36
53	Channel formation by turbidity currents: Navier–Stokes-based linear stability analysis. <i>Journal of Fluid Mechanics</i> , 2008, 615, 185-210.	1.4	36
54	On the stability of the swirling jet shear layer. <i>Physics of Fluids</i> , 1994, 6, 424-426.	1.6	33

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55	Shallow-water analysis of gravity-current flows past isolated obstacles. <i>Journal of Fluid Mechanics</i> , 2009, 635, 415-438.	1.4	33
56	Plane Poiseuille flow of miscible layers with different viscosities: instabilities in the Stokes flow regime. <i>Journal of Fluid Mechanics</i> , 2011, 686, 484-506.	1.4	32
57	Miscible displacements in Hele-Shaw cells: three-dimensional Navier-Stokes simulations. <i>Journal of Fluid Mechanics</i> , 2011, 687, 431-460.	1.4	31
58	Shear stabilization of miscible displacement processes in porous media. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1344-1355.	1.6	30
59	Circulation-based models for Boussinesq internal bores. <i>Journal of Fluid Mechanics</i> , 2013, 726, .	1.4	30
60	Three-dimensional features of particle dispersion in a nominally plane mixing layer. <i>Physics of Fluids</i> , 1996, 8, 2266-2268.	1.6	29
61	Variable-density miscible displacements in a vertical Hele-Shaw cell: linear stability. <i>Journal of Fluid Mechanics</i> , 2007, 584, 357-372.	1.4	28
62	Unstable density stratification of miscible fluids in a vertical Hele-Shaw cell: influence of variable viscosity on the linear stability. <i>Journal of Fluid Mechanics</i> , 2004, 516, 211-238.	1.4	27
63	Variable density and viscosity, miscible displacements in horizontal Hele-Shaw cells. Part 1. Linear stability analysis. <i>Journal of Fluid Mechanics</i> , 2013, 721, 268-294.	1.4	27
64	Two-way coupling in shear layers with dilute bubble concentrations. <i>Physics of Fluids</i> , 1994, 6, 2656-2670.	1.6	26
65	Sustained gravity currents in a channel. <i>Journal of Fluid Mechanics</i> , 2016, 798, 853-888.	1.4	26
66	Vorticity interaction mechanisms in variable-viscosity heterogeneous miscible displacements with and without density contrast. <i>Journal of Fluid Mechanics</i> , 2004, 517, 1-25.	1.4	25
67	Variable density and viscosity, miscible displacements in capillary tubes. <i>European Journal of Mechanics, B/Fluids</i> , 2008, 27, 268-289.	1.2	25
68	The shape of submarine levees: exponential or power law?. <i>Journal of Fluid Mechanics</i> , 2009, 619, 367-376.	1.4	25
69	Nonlinear axisymmetric and three-dimensional vorticity dynamics in a swirling jet model. <i>Physics of Fluids</i> , 1996, 8, 1917-1928.	1.6	24
70	Miscible rectilinear displacements with gravity override. Part 2. Heterogeneous porous media. <i>Journal of Fluid Mechanics</i> , 2000, 420, 259-276.	1.4	24
71	Vorticity dynamics of dilute two-way-coupled particle-laden mixing layers. <i>Journal of Fluid Mechanics</i> , 2000, 421, 185-227.	1.4	24
72	Radial source flows in porous media: Linear stability analysis of axial and helical perturbations in miscible displacements. <i>Physics of Fluids</i> , 2003, 15, 938-946.	1.6	24

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73	On gravity currents in stratified ambients. <i>Physics of Fluids</i> , 2007, 19, .	1.6	24
74	The role of buoyancy reversal in turbidite deposition and submarine fan geometry. <i>Geology</i> , 2017, 45, 35-38.	2.0	24
75	Internal bores: an improved model via a detailed analysis of the energy budget. <i>Journal of Fluid Mechanics</i> , 2012, 703, 279-314.	1.4	23
76	On the Causes of Pulsing in Continuous Turbidity Currents. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2827-2843.	1.0	23
77	High-resolution simulations of turbidity currents. <i>Progress in Earth and Planetary Science</i> , 2017, 4, .	1.1	22
78	Chemical fronts in Hele-Shaw cells: Linear stability analysis based on the three-dimensional Stokes equations. <i>Physics of Fluids</i> , 2003, 15, 597-602.	1.6	21
79	Mixing dynamics of turbidity currents interacting with complex seafloor topography. <i>Environmental Fluid Mechanics</i> , 2018, 18, 201-223.	0.7	21
80	Miscible porous media displacements in the quarter five-spot configuration. Part 3. Non-monotonic viscosity profiles. <i>Journal of Fluid Mechanics</i> , 1999, 388, 171-195.	1.4	19
81	Variable density and viscosity, miscible displacements in horizontal Hele-Shaw cells. Part 2. Nonlinear simulations. <i>Journal of Fluid Mechanics</i> , 2013, 721, 295-323.	1.4	19
82	The effect of streamwise braid vortices on the particle dispersion in a plane mixing layer. I. Equilibrium points and their stability. <i>Physics of Fluids</i> , 1996, 8, 715-733.	1.6	18
83	Miscible displacements in Hele-Shaw cells: Nonmonotonic viscosity profiles. <i>European Journal of Mechanics, B/Fluids</i> , 2007, 26, 444-453.	1.2	18
84	The effect of streamwise braid vortices on the particle dispersion in a plane mixing layer. II. Nonlinear particle dynamics. <i>Physics of Fluids</i> , 1996, 8, 734-753.	1.6	17
85	Gravity currents from moving sources. <i>Journal of Fluid Mechanics</i> , 2021, 924, .	1.4	17
86	Stabilization of miscible viscous fingering by a step growth polymerization reaction. <i>Experiments in Fluids</i> , 2018, 59, 1.	1.1	16
87	Influence of seafloor topography on the depositional behavior of bi-disperse turbidity currents: a three-dimensional, depth-resolved numerical investigation. <i>Environmental Fluid Mechanics</i> , 2014, 14, 319-342.	0.7	15
88	Turbidity currents propagating down a slope into a stratified saline ambient fluid. <i>Environmental Fluid Mechanics</i> , 2019, 19, 1143-1166.	0.7	15
89	An efficient cellular flow model for cohesive particle flocculation in turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 889, .	1.4	15
90	Coupling of vortex breakdown and stability in a swirling flow. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	15

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91	Particle dynamics and mixing in a viscously decaying shear layer. <i>Journal of Fluid Mechanics</i> , 1991, 227, 211-244.	1.4	14
92	Density-driven instabilities of miscible fluids in a capillary tube: linear stability analysis. <i>Journal of Fluid Mechanics</i> , 2003, 497, 99-121.	1.4	14
93	Texture evolution of sheared liquid crystalline polymers: Numerical predictions of roll-cells instability, director turbulence, and striped texture with a molecular model. <i>Journal of Rheology</i> , 2003, 47, 1417-1444.	1.3	14
94	Schlieren imaging of viscous fingering in a horizontal Hele-Shaw cell. <i>Experiments in Fluids</i> , 2016, 57, 1.	1.1	14
95	Consolidation of freshly deposited cohesive and noncohesive sediment: Particle-resolved simulations. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	14
96	Vortex pairing in two-way coupled, particle laden mixing layers. <i>International Journal of Multiphase Flow</i> , 2002, 28, 325-346.	1.6	13
97	Modelling gravity currents without an energy closure. <i>Journal of Fluid Mechanics</i> , 2016, 789, 806-829.	1.4	13
98	Layer formation in sedimentary fingering convection. <i>Journal of Fluid Mechanics</i> , 2017, 816, 268-305.	1.4	13
99	Mammatus cloud formation by settling and evaporation. <i>Journal of Fluid Mechanics</i> , 2020, 899, .	1.4	13
100	Active swimmers interacting with stratified fluids during collective vertical migration. <i>Journal of Fluid Mechanics</i> , 2020, 902, .	1.4	13
101	Flocculation of suspended cohesive particles in homogeneous isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2021, 921, .	1.4	13
102	A settling-driven instability in two-component, stably stratified fluids. <i>Journal of Fluid Mechanics</i> , 2017, 816, 243-267.	1.4	12
103	Halite Precipitation From Double Diffusive Salt Fingers in the Dead Sea: Numerical Simulations. <i>Water Resources Research</i> , 2019, 55, 4252-4265.	1.7	12
104	Density-driven instabilities in capillary tubes: Influence of a variable diffusion coefficient. <i>Physics of Fluids</i> , 2006, 18, 048101.	1.6	11
105	Deep-water sediment wave formation: linear stability analysis of coupled flow/bed interaction. <i>Journal of Fluid Mechanics</i> , 2011, 680, 435-458.	1.4	11
106	Towards inverse modeling of turbidity currents: The inverse lock-exchange problem. <i>Computers and Geosciences</i> , 2011, 37, 521-529.	2.0	11
107	The effect of a crosslinking chemical reaction on pattern formation in viscous fingering of miscible fluids in a Hele-Shaw cell. <i>Chaos</i> , 2017, 27, 104614.	1.0	11
108	Data-Driven, Multi-Model Workflow Suggests Strong Influence from Hurricanes on the Generation of Turbidity Currents in the Gulf of Mexico. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 586.	1.2	11

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109	Influence of variable viscosity on density-driven instabilities in capillary tubes. <i>Journal of Fluid Mechanics</i> , 2005, 525, 333-353.	1.4	10
110	Direct numerical simulations of particle transport in a model estuary. <i>Journal of Turbulence</i> , 2010, 11, N39.	0.5	10
111	Transition of a Hyperpycnal Flow Into a Saline Turbidity Current Due to Differential Diffusivities. <i>Geophysical Research Letters</i> , 2018, 45, 11,875.	1.5	10
112	Rheology of mobile sediment beds sheared by viscous, pressure-driven flows. <i>Journal of Fluid Mechanics</i> , 2021, 921, .	1.4	10
113	Three-dimensional Navier–Stokes simulations of buoyant, vertical miscible Hele-Shaw displacements. <i>Journal of Fluid Mechanics</i> , 2014, 752, 157-183.	1.4	9
114	Double-diffusive lock-exchange gravity currents. <i>Journal of Fluid Mechanics</i> , 2016, 797, 729-764.	1.4	9
115	The shape evolution of liquid droplets in miscible environments. <i>Journal of Fluid Mechanics</i> , 2018, 852, 422-452.	1.4	9
116	Grain-resolving simulations of submerged cohesive granular collapse. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	1.4	9
117	Gravity currents propagating into ambients with arbitrary shear and density stratification: vorticity-based modelling. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 1359-1370.	1.0	8
118	Intrusive gravity currents propagating into two-layer stratified ambients: Vorticity modeling. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	8
119	Partial-depth lock-release flows. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	8
120	Particle dynamics in a viscously decaying catâ€™s eye: The effect of finite Schmidt numbers. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 1068-1072.	1.6	7
121	A computational model for heterogeneous flow through low headloss biofilter media. <i>Environmental Progress</i> , 2002, 21, 11-19.	0.8	7
122	Gravity currents over fixed beds of monodisperse spheres. <i>Journal of Fluid Mechanics</i> , 2020, 901, .	1.4	7
123	How Does Coastal Gravel Get Sorted Under Stormy Longshore Transport?. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	7
124	Three-dimensional vorticity dynamics of miscible porous media flows. <i>Journal of Turbulence</i> , 2002, 3, N61.	0.5	6
125	Miscible, Porous Media Displacements with Density Stratification. <i>Annals of the New York Academy of Sciences</i> , 2004, 1027, 342-359.	1.8	6
126	Turbulent mixing and wave radiation in non-Boussinesq internal bores. <i>Physics of Fluids</i> , 2012, 24, 082106.	1.6	6

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127	Gravity currents propagating into shear. <i>Journal of Fluid Mechanics</i> , 2015, 778, 552-585.	1.4	5
128	Sediment Wave Formation Caused by Erosional and Depositional Turbidity Currents: A Numerical Investigation. <i>Procedia IUTAM</i> , 2015, 15, 26-33.	1.2	5
129	Saffman-Taylor Instability and the Inner Splitting Mechanism. <i>Physical Review Letters</i> , 2017, 118, 124502.	2.9	5
130	Gravity currents propagating into two-layer stratified fluids: vorticity-based models. <i>Journal of Fluid Mechanics</i> , 2018, 844, 994-1025.	1.4	5
131	The influence of shear on double-diffusive and settling-driven instabilities. <i>Journal of Fluid Mechanics</i> , 2018, 849, 902-926.	1.4	5
132	Hydroclimatic Controls on Salt Fluxes and Halite Deposition in the Dead Sea and the Shaping of "Salt Giants". <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090836.	1.5	5
133	Density-Driven Instabilities of Variable-Viscosity Miscible Fluids in a Capillary Tube. <i>Annals of the New York Academy of Sciences</i> , 2004, 1027, 383-402.	1.8	4
134	Miscible porous media displacements driven by non-vertical injection wells. <i>Journal of Fluid Mechanics</i> , 2008, 607, 289-312.	1.4	4
135	Intrusions propagating into linearly stratified environments. <i>Journal of Fluid Mechanics</i> , 2018, 844, 956-969.	1.4	4
136	Interaction of a downslope gravity current with an internal wave. <i>Journal of Fluid Mechanics</i> , 2019, 873, 889-913.	1.4	4
137	Settling-driven large-scale instabilities in double-diffusive convection. <i>Journal of Fluid Mechanics</i> , 2020, 901, .	1.4	4
138	Settling of a particle pair through a sharp, miscible density interface. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	4
139	Removal of a dense bottom layer by a gravity current. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	1.4	4
140	Plunging criterion for particle-laden flows over sloping bottoms: Three-dimensional turbulence-resolving simulations. <i>Computers and Geosciences</i> , 2021, 156, 104880.	2.0	4
141	Clear salt water above sediment-laden fresh water: Interfacial instabilities. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	4
142	Particle-laden gravity currents interacting with stratified ambient water using direct numerical simulations. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	4
143	Miscible displacements in capillary tubes: Effect of a preexisting wall film. <i>Physics of Fluids</i> , 2004, 16, 602-609.	1.6	3
144	Three-Dimensional Vorticity Configurations in Miscible Hele-Shaw Displacements. <i>Procedia IUTAM</i> , 2013, 7, 203-212.	1.2	3

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145	Gravity currents with tailwaters in Boussinesq and non-Boussinesq systems: two-layer shallow-water dam-break solutions and Navier–Stokes simulations. <i>Environmental Fluid Mechanics</i> , 2014, 14, 451-470.	0.7	3
146	Report on the Program “Fluid-mediated particle transport in geophysical flows” at the Kavli Institute for Theoretical Physics, UC Santa Barbara, September 23 to December 12, 2013. <i>Physics of Fluids</i> , 2015, 27, 096601.	1.6	2
147	Double-diffusive sedimentation at high Schmidt numbers: Semi-Lagrangian simulations. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	2
148	The mysterious grooves of Volc�n B�rcena: a review of the role of streamwise counter-rotating vortices during erosion by dilute pyroclastic density currents. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	1.1	2
149	Stress balance for a viscous flow with a single rolling particle. <i>E3S Web of Conferences</i> , 2018, 40, 04003.	0.2	1
150	Numerical Investigation of Two-Way Coupling Mechanisms in Dilute, Particle Laden Flows. , 2003, , 149-154.		1
151	Physics of Cohesive Sediment Flocculation and Transport: State-of-the-Art Experimental and Numerical Techniques. , 0, , .		1
152	The interactive dynamics of flow and directional solidification in a Hele-Shaw cell Part 2. Stability analysis and nonlinear simulations. <i>Journal of Fluid Mechanics</i> , 2002, 470, 269-290.	1.4	0
153	Settling-driven instability in two-component stably stratified Hele-Shaw flows. <i>Journal of Fluid Mechanics</i> , 2018, 843, .	1.4	0
154	INTERACTIONS BETWEEN HELE-SHAW FLOWS AND DIRECTIONAL SOLIDIFICATION: NUMERICAL SIMULATIONS. , 2002, , 274-274.		0
155	Instabilities of Miscible Interfaces. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2010, , 27-34.	0.1	0
156	Gravity and Turbidity Currents: Numerical Simulations and Theoretical Models. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2018, , 129-180.	0.3	0