Eckart Meiburg

List of Publications by Year
in descending order

156 papers	5,937 citations	57631 44 h-index	85405 71 g-index
158 all docs	158 docs citations	158 times ranked	2492 citing authors

#	Article	IF	Citations
1	Grain-resolving simulations of submerged cohesive granular collapse. Journal of Fluid Mechanics, 2022, 942, .	1.4	9
2	Confronting Grand Challenges in environmental fluid mechanics. Physical Review Fluids, 2021, 6, .	1.0	37
3	Double-diffusive sedimentation at high Schmidt numbers: Semi-Lagrangian simulations. Physical Review Fluids, 2021, 6, .	1.0	2
4	The mysterious grooves of VolcÃ¡n BÃ¡rcena: a review of the role of streamwise counter-rotating vortices during erosion by dilute pyroclastic density currents. Bulletin of Volcanology, 2021, 83, 1.	1.1	2
5	Settling of a particle pair through a sharp, miscible density interface. Physical Review Fluids, 2021, 6, .	1.0	4
6	Removal of a dense bottom layer by a gravity current. Journal of Fluid Mechanics, 2021, 916, .	1.4	4
7	Flocculation of suspended cohesive particles in homogeneous isotropic turbulence. Journal of Fluid Mechanics, 2021, 921, .	1.4	13
8	Rheology of mobile sediment beds sheared by viscous, pressure-driven flows. Journal of Fluid Mechanics, 2021, 921, .	1.4	10
9	Gravity currents from moving sources. Journal of Fluid Mechanics, 2021, 924, .	1.4	17
10	Plunging criterion for particle-laden flows over sloping bottoms: Three-dimensional turbulence-resolving simulations. Computers and Geosciences, 2021, 156, 104880.	2.0	4
11	How Does Coastal Gravel Get Sorted Under Stormy Longshore Transport?. Geophysical Research Letters, 2021, 48, .	1.5	7
12	Particle-laden gravity currents interacting with stratified ambient water using direct numerical simulations. Environmental Earth Sciences, 2021, 80, 1.	1.3	4
13	Mammatus cloud formation by settling and evaporation. Journal of Fluid Mechanics, 2020, 899, .	1.4	13
14	Hydroclimatic Controls on Salt Fluxes and Halite Deposition in the Dead Sea and the Shaping of â€œSalt Giantsâ€• Geophysical Research Letters, 2020, 47, e2020GL090836.	1.5	5
15	Gravity currents over fixed beds of monodisperse spheres. Journal of Fluid Mechanics, 2020, 901, .	1.4	7
16	Data-Driven, Multi-Model Workflow Suggests Strong Influence from Hurricanes on the Generation of Turbidity Currents in the Gulf of Mexico. Journal of Marine Science and Engineering, 2020, 8, 586.	1.2	11
17	Settling-driven large-scale instabilities in double-diffusive convection. Journal of Fluid Mechanics, 2020, 901, .	1.4	4
18	Active swimmers interacting with stratified fluids during collective vertical migration. Journal of Fluid Mechanics, 2020, 902, .	1.4	13

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19	An efficient cellular flow model for cohesive particle flocculation in turbulence. Journal of Fluid Mechanics, 2020, 889, .	1.4	15
20	Interaction of a downslope gravity current with an internal wave. Journal of Fluid Mechanics, 2019, 873, 889-913.	1.4	4
21	Halite Precipitation From Double‐Diffusive Salt Fingers in the Dead Sea: Numerical Simulations. Water Resources Research, 2019, 55, 4252-4265.	1.7	12
22	Turbidity currents propagating down a slope into a stratified saline ambient fluid. Environmental Fluid Mechanics, 2019, 19, 1143-1166.	0.7	15
23	Settling of cohesive sediment: particle-resolvedÂsimulations. Journal of Fluid Mechanics, 2019, 858, 5-44.	1.4	40
24	Consolidation of freshly deposited cohesive and noncohesive sediment: Particle-resolved simulations. Physical Review Fluids, 2019, 4, .	1.0	14
25	Coupling of vortex breakdown and stability in a swirling flow. Physical Review Fluids, 2019, 4, .	1.0	15
26	Intrusions propagating into linearly stratifiedÂambients. Journal of Fluid Mechanics, 2018, 844, 956-969.	1.4	4
27	Gravity currents propagating into two-layer stratified fluids: vorticity-based models. Journal of Fluid Mechanics, 2018, 844, 994-1025.	1.4	5
28	Settling-driven instability in two-component stably stratified Hele-Shaw flows. Journal of Fluid Mechanics, 2018, 843, .	1.4	0
29	Mixing dynamics of turbidity currents interacting with complex seafloor topography. Environmental Fluid Mechanics, 2018, 18, 201-223.	0.7	21
30	Stress balance for a viscous flow with a single rolling particle. E3S Web of Conferences, 2018, 40, 04003.	0.2	1
31	Transition of a Hyperpycnal Flow Into a Saline Turbidity Current Due to Differential Diffusivities. Geophysical Research Letters, 2018, 45, 11,875.	1.5	10
32	On the Causes of Pulsing in Continuous Turbidity Currents. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2827-2843.	1.0	23
33	Stabilization of miscible viscous fingering by a step growth polymerization reaction. Experiments in Fluids, 2018, 59, 1.	1.1	16
34	The influence of shear on double-diffusive and settling-driven instabilities. Journal of Fluid Mechanics, 2018, 849, 902-926.	1.4	5
35	The shape evolution of liquid droplets in miscible environments. Journal of Fluid Mechanics, 2018, 852, 422-452.	1.4	9
36	Gravity and Turbidity Currents: Numerical Simulations and Theoretical Models. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2018, , 129-180.	0.3	0

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37	A settling-driven instability in two-component, stably stratified fluids. Journal of Fluid Mechanics, 2017, 816, 243-267.	1.4	12
38	Layer formation in sedimentary fingering convection. Journal of Fluid Mechanics, 2017, 816, 268-305.	1.4	13
39	Saffman-Taylor Instability and the Inner Splitting Mechanism. Physical Review Letters, 2017, 118, 124502.	2.9	5
40	A collision model for grain-resolving simulations of flows over dense, mobile, polydisperse granular sediment beds. Journal of Computational Physics, 2017, 340, 105-127.	1.9	79
41	The effect of a crosslinking chemical reaction on pattern formation in viscous fingering of miscible fluids in a Hele–Shaw cell. Chaos, 2017, 27, 104614.	1.0	11
42	The role of buoyancy reversal in turbidite deposition and submarine fan geometry. Geology, 2017, 45, 35-38.	2.0	24
43	High-resolution simulations of turbidity currents. Progress in Earth and Planetary Science, 2017, 4, .	1.1	22
44	Partial-depth lock-release flows. Physical Review Fluids, 2017, 2, .	1.0	8
45	Gravity currents propagating into ambients with arbitrary shear and density stratification: vorticity‐based modelling. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 1359-1370.	1.0	8
46	Sustained gravity currents in a channel. Journal of Fluid Mechanics, 2016, 798, 853-888.	1.4	26
47	Double-diffusive lock-exchange gravity currents. Journal of Fluid Mechanics, 2016, 797, 729-764.	1.4	9
48	Modelling gravity currents without an energyÂclosure. Journal of Fluid Mechanics, 2016, 789, 806-829.	1.4	13
49	Long-range sediment transport in the world's oceans by stably stratified turbidity currents. Journal of Geophysical Research: Oceans, 2016, 121, 8608-8620.	1.0	49
50	Schlieren imaging of viscous fingering in a horizontal Hele-Shaw cell. Experiments in Fluids, 2016, 57, 1.	1.1	14
51	Clear salt water above sediment-laden fresh water: Interfacial instabilities. Physical Review Fluids, 2016, 1, .	1.0	4
52	Intrusive gravity currents propagating into two-layer stratified ambients: Vorticity modeling. Physical Review Fluids, 2016, 1, .	1.0	8
53	Gravity currents propagating into shear. Journal of Fluid Mechanics, 2015, 778, 552-585.	1.4	5
54	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. Physics of Fluids, 2015, 27, 096601.	1.6	2

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55	Sediment Wave Formation Caused by Erosional and Depositional Turbidity Currents: A Numerical Investigation. Procedia IUTAM, 2015, 15, 26-33.	1.2	5
56	Modeling Gravity and Turbidity Currents: Computational Approaches and Challenges. Applied Mechanics Reviews, 2015, 67, .	4.5	69
57	Sediment-laden fresh water above salt water: nonlinear simulations. Journal of Fluid Mechanics, 2015, 762, 156-195.	1.4	58
58	Turbidity currents interacting with three-dimensional seafloor topography. Journal of Fluid Mechanics, 2014, 745, 409-443.	1.4	58
59	Gravity currents with tailwaters in Boussinesq and non-Boussinesq systems: two-layer shallow-water dam-break solutions and Navier–Stokes simulations. Environmental Fluid Mechanics, 2014, 14, 451-470.	0.7	3
60	Lock-exchange gravity currents with a low volume of release propagating over an array of obstacles. Journal of Geophysical Research: Oceans, 2014, 119, 2752-2768.	1.0	39
61	Influence of seafloor topography on the depositional behavior of bi-disperse turbidity currents: a three-dimensional, depth-resolved numerical investigation. Environmental Fluid Mechanics, 2014, 14, 319-342.	0.7	15
62	Three-dimensional Navier–Stokes simulations of buoyant, vertical miscible Hele-Shaw displacements. Journal of Fluid Mechanics, 2014, 752, 157-183.	1.4	9
63	Variable density and viscosity, miscible displacements in horizontal Hele-Shaw cells. Part 2. Nonlinear simulations. Journal of Fluid Mechanics, 2013, 721, 295-323.	1.4	19
64	Circulation-based models for Boussinesq internal bores. Journal of Fluid Mechanics, 2013, 726, .	1.4	30
65	Variable density and viscosity, miscible displacements in horizontal Hele-Shaw cells. Part 1. Linear stability analysis. Journal of Fluid Mechanics, 2013, 721, 268-294.	1.4	27
66	Three-Dimensional Vorticity Configurations in Miscible Hele-Shaw Displacements. Procedia IUTAM, 2013, 7, 203-212.	1.2	3
67	Polydisperse turbidity currents propagating over complex topography: Comparison of experimental and depth-resolved simulation results. Computers and Geosciences, 2013, 53, 141-153.	2.0	47
68	Turbulent mixing and wave radiation in non-Boussinesq internal bores. Physics of Fluids, 2012, 24, 082106.	1.6	6
69	Tail structure and bed friction velocity distribution of gravity currents propagating over an array of obstacles. Journal of Fluid Mechanics, 2012, 694, 252-291.	1.4	45
70	Sediment-laden fresh water above salt water: linear stability analysis. Journal of Fluid Mechanics, 2012, 691, 279-314.	1.4	58
71	Internal bores: an improved model via a detailed analysis of the energy budget. Journal of Fluid Mechanics, 2012, 703, 279-314.	1.4	23
72	Deep-water sediment wave formation: linear stability analysis of coupled flow/bed interaction. Journal of Fluid Mechanics, 2011, 680, 435-458.	1.4	11

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73	Lock-exchange gravity currents with a high volume of release propagating over a periodic array of obstacles. Journal of Fluid Mechanics, 2011, 672, 570-605.	1.4	65
74	Towards inverse modeling of turbidity currents: The inverse lock-exchange problem. Computers and Geosciences, 2011, 37, 521-529.	2.0	11
75	Miscible displacements in Hele-Shaw cells: three-dimensional Navier–Stokes simulations. Journal of Fluid Mechanics, 2011, 687, 431-460.	1.4	31
76	Plane Poiseuille flow of miscible layers with different viscosities: instabilities in the Stokes flow regime. Journal of Fluid Mechanics, 2011, 686, 484-506.	1.4	32
77	TURBINS: An immersed boundary, Navier–Stokes code for the simulation of gravity and turbidity currents interacting with complex topographies. Computers and Fluids, 2011, 45, 14-28.	1.3	52
78	Gravity current flow past a circular cylinder: forces, wall shear stresses and implications for scour. Journal of Fluid Mechanics, 2010, 649, 69-102.	1.4	49
79	Direct numerical simulations of particle transport in a model estuary. Journal of Turbulence, 2010, 11, N39.	0.5	10
80	Turbidity Currents and Their Deposits. Annual Review of Fluid Mechanics, 2010, 42, 135-156.	10.8	368
81	Instabilities of Miscible Interfaces. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 27-34.	0.1	0
82	Convective/absolute instability in miscible core-annular flow. Part 2. Numerical simulations and nonlinear global modes. Journal of Fluid Mechanics, 2009, 618, 323-348.	1.4	44
83	The shape of submarine levees: exponential or power law?. Journal of Fluid Mechanics, 2009, 619, 367-376.	1.4	25
84	Shallow-water analysis of gravity-current flows past isolated obstacles. Journal of Fluid Mechanics, 2009, 635, 415-438.	1.4	33
85	Gravity currents impinging on bottom-mounted square cylinders: flow fields and associated forces. Journal of Fluid Mechanics, 2009, 631, 65-102.	1.4	59
86	Variable density and viscosity, miscible displacements in capillary tubes. European Journal of Mechanics, B/Fluids, 2008, 27, 268-289.	1.2	25
87	Channel formation by turbidity currents: Navier–Stokes-based linear stability analysis. Journal of Fluid Mechanics, 2008, 615, 185-210.	1.4	36
88	Miscible porous media displacements driven by non-vertical injection wells. Journal of Fluid Mechanics, 2008, 607, 289-312.	1.4	4
89	On gravity currents in stratified ambients. Physics of Fluids, 2007, 19, .	1.6	24
90	Stability of miscible core–annular flows with viscosity stratification. Journal of Fluid Mechanics, 2007, 592, 23-49.	1.4	74

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91	Variable-density miscible displacements in a vertical Hele-Shaw cell: linear stability. Journal of Fluid Mechanics, 2007, 584, 357-372.	1.4	28
92	Lock-exchange flows in sloping channels. Journal of Fluid Mechanics, 2007, 577, 53-77.	1.4	60
93	Miscible displacements in Heleâ€"Shaw cells: Nonmonotonic viscosity profiles. European Journal of Mechanics, B/Fluids, 2007, 26, 444-453.	1.2	18
94	Small particles in homogeneous turbulence: Settling velocity enhancement by two-way coupling. Physics of Fluids, 2006, 18, 027102.	1.6	104
95	Spiral vortex breakdown as a global mode. Journal of Fluid Mechanics, 2006, 549, 71.	1.4	137
96	Miscible displacements in Hele-Shaw cells: two-dimensional base states and their linear stability. Journal of Fluid Mechanics, 2006, 558, 329.	1.4	47
97	Density-driven instabilities in capillary tubes: Influence of a variable diffusion coefficient. Physics of Fluids, 2006, 18, 048101.	1.6	11
98	Numerical simulation of finite Reynolds number suspension drops settling under gravity. Physics of Fluids, 2005, 17, 037101.	1.6	49
99	Mixing and dissipation in particle-driven gravity currents. Journal of Fluid Mechanics, 2005, 545, 339.	1.4	156
100	The non-Boussinesq lock-exchange problem. Part 2. High-resolution simulations. Journal of Fluid Mechanics, 2005, 537, 125.	1.4	108
101	Influence of variable viscosity on density-driven instabilities in capillary tubes. Journal of Fluid Mechanics, 2005, 525, 333-353.	1.4	10
102	High-resolution numerical simulations of resuspending gravity currents: Conditions for self-sustainment. Journal of Geophysical Research, 2005, 110, .	3.3	84
103	Linear stability of radial displacements in porous media: Influence of velocity-induced dispersion and concentration-dependent diffusion. Physics of Fluids, 2004, 16, 3592-3598.	1.6	40
104	Miscible displacements in capillary tubes: Effect of a preexisting wall film. Physics of Fluids, 2004, 16, 602-609.	1.6	3
105	Miscible, Porous Media Displacements with Density Stratification. Annals of the New York Academy of Sciences, 2004, 1027, 342-359.	1.8	6
106	Density-Driven Instabilities of Variable-Viscosity Miscible Fluids in a Capillary Tube. Annals of the New York Academy of Sciences, 2004, 1027, 383-402.	1.8	4
107	Development of boundary conditions for direct numerical simulations of three-dimensional vortex breakdown phenomena in semi-infinite domains. Computers and Fluids, 2004, 33, 1225-1250.	1.3	36
108	Vorticity interaction mechanisms in variable-viscosity heterogeneous miscible displacements with and without density contrast. Journal of Fluid Mechanics, 2004, 517, 1-25.	1.4	25

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109	Unstable density stratification of miscible fluids in a vertical Hele-Shaw cell: influence of variable viscosity on the linear stability. Journal of Fluid Mechanics, 2004, 516, 211-238.	1.4	27
110	Density-driven instabilities of miscible fluids in a capillary tube: linear stability analysis. Journal of Fluid Mechanics, 2003, 497, 99-121.	1.4	14
111	Three-dimensional miscible displacement simulations in homogeneous porous media with gravity override. Journal of Fluid Mechanics, 2003, 494, 95-117.	1.4	58
112	Three-dimensional vortex breakdown in swirling jets and wakes: direct numerical simulation. Journal of Fluid Mechanics, 2003, 486, 331-378.	1.4	225
113	Texture evolution of sheared liquid crystalline polymers: Numerical predictions of roll-cells instability, director turbulence, and striped texture with a molecular model. Journal of Rheology, 2003, 47, 1417-1444.	1.3	14
114	Chemical fronts in Hele-Shaw cells: Linear stability analysis based on the three-dimensional Stokes equations. Physics of Fluids, 2003, 15, 597-602.	1.6	21
115	Radial source flows in porous media: Linear stability analysis of axial and helical perturbations in miscible displacements. Physics of Fluids, 2003, 15, 938-946.	1.6	24
116	Numerical Investigation of Two-Way Coupling Mechanisms in Dilute, Particle Laden Flows. , 2003, , 149-154.		1
117	Miscible displacements in capillary tubes: Influence of Korteweg stresses and divergence effects. Physics of Fluids, 2002, 14, 2052.	1.6	58
118	The interactive dynamics of flow and directional solidification in a Hele-Shaw cell Part 2. Stability analysis and nonlinear simulations. Journal of Fluid Mechanics, 2002, 470, 269-290.	1.4	0
119	Density-driven unstable flows of miscible fluids in a Hele-Shaw cell. Journal of Fluid Mechanics, 2002, 451, 239-260.	1.4	152
120	Density-driven instabilities of miscible fluids in a Hele-Shaw cell: linear stability analysis of the three-dimensional Stokes equations. Journal of Fluid Mechanics, 2002, 451, 261-282.	1.4	49
121	Three-dimensional vorticity dynamics of miscible porous media flows. Journal of Turbulence, 2002, 3, N61.	0.5	6
122	A computational model for heterogeneous flow through low headloss biofilter media. Environmental Progress, 2002, 21, 11-19.	0.8	7
123	High-resolution simulations of particle-driven gravity currents. International Journal of Multiphase Flow, 2002, 28, 279-300.	1.6	190
124	Vortex pairing in two-way coupled, particle laden mixing layers. International Journal of Multiphase Flow, 2002, 28, 325-346.	1.6	13
125	INTERACTIONS BETWEEN HELE-SHAW FLOWS AND DIRECTIONAL SOLIDIFICATION: NUMERICAL SIMULATIONS. , 2002, , 274-274.		0
126	Miscible droplets in a porous medium and the effects of Korteweg stresses. Physics of Fluids, 2001, 13, 2447-2456.	1.6	47

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127	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. Journal of Fluid Mechanics, 2000, 418, 189-212.	1.4	380
128	Miscible rectilinear displacements with gravity override. Part 2. Heterogeneous porous media. Journal of Fluid Mechanics, 2000, 420, 259-276.	1.4	24
129	Miscible rectilinear displacements with gravity override. Part 1. Homogeneous porous medium. Journal of Fluid Mechanics, 2000, 420, 225-257.	1.4	107
130	Vorticity dynamics of dilute two-way-coupled particle-laden mixing layers. Journal of Fluid Mechanics, 2000, 421, 185-227.	1.4	24
131	High-Accuracy Implicit Finite-Difference Simulations of Homogeneous and Heterogeneous Miscible-Porous-Medium Flows. SPE Journal, 2000, 5, 129-137.	1.7	48
132	Miscible quarter five-spot displacements in a Hele-Shaw cell and the role of flow-induced dispersion. Physics of Fluids, 1999, 11, 1705-1716.	1.6	71
133	Miscible porous media displacements in the quarter five-spot configuration. Part 3. Non-monotonic viscosity profiles. Journal of Fluid Mechanics, 1999, 388, 171-195.	1.4	19
134	Miscible porous media displacements in the quarter five-spot configuration. Part 1. The homogeneous case. Journal of Fluid Mechanics, 1998, 371, 233-268.	1.4	117
135	Miscible porous media displacements in the quarter five-spot configuration. Part 2. Effect of heterogeneities. Journal of Fluid Mechanics, 1998, 371, 269-299.	1.4	78
136	Dynamics of small, spherical particles in vortical and stagnation point flow fields. Physics of Fluids, 1997, 9, 299-314.	1.6	54
137	Miscible displacements in capillary tubes. Part 2. Numerical simulations. Journal of Fluid Mechanics, 1996, 326, 57-90.	1.4	148
138	Three‐dimensional features of particle dispersion in a nominally plane mixing layer. Physics of Fluids, 1996, 8, 2266-2268.	1.6	29
139	Nonlinear axisymmetric and three‐dimensional vorticity dynamics in a swirling jet model. Physics of Fluids, 1996, 8, 1917-1928.	1.6	24
140	The effect of streamwise braid vortices on the particle dispersion in a plane mixing layer. I. Equilibrium points and their stability. Physics of Fluids, 1996, 8, 715-733.	1.6	18
141	The effect of streamwise braid vortices on the particle dispersion in a plane mixing layer. II. Nonlinear particle dynamics. Physics of Fluids, 1996, 8, 734-753.	1.6	17
142	Dynamics of heavy particles in a Burgers vortex. Physics of Fluids, 1995, 7, 400-410.	1.6	55
143	The accumulation and dispersion of heavy particles in forced two‐dimensional mixing layers. Part 2: The effect of gravity. Physics of Fluids, 1995, 7, 1241-1264.	1.6	63
144	The accumulation and dispersion of heavy particles in forced two‐dimensional mixing layers. I. The fundamental and subharmonic cases. Physics of Fluids, 1994, 6, 1116-1132.	1.6	96

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145	On the stability of the swirling jet shear layer. Physics of Fluids, 1994, 6, 424-426.	1.6	33
146	Two‑way coupling in shear layers with dilute bubble concentrations. Physics of Fluids, 1994, 6, 2656-2670.	1.6	26
147	Numerical simulation of miscible displacement processes in porous media flows under gravity. Physics of Fluids A, Fluid Dynamics, 1993, 5, 2644-2660.	1.6	61
148	On the motion of small spherical bubbles in two‑dimensional vortical flows. Physics of Fluids A, Fluid Dynamics, 1993, 5, 2326-2341.	1.6	37
149	Shear stabilization of miscible displacement processes in porous media. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1344-1355.	1.6	30
150	Numerical investigation of three-dimensionally evolving jets under helical perturbations. Journal of Fluid Mechanics, 1992, 243, 457.	1.4	39
151	Particle dynamics and mixing in a viscously decaying shear layer. Journal of Fluid Mechanics, 1991, 227, 211-244.	1.4	14
152	Numerical investigation of three-dimensionally evolving jets subject to axisymmetric and azimuthal perturbations. Journal of Fluid Mechanics, 1991, 230, 271-318.	1.4	127
153	Particle dynamics in a viscously decaying cat's eye: The effect of finite Schmidt numbers. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1068-1072.	1.6	7
154	A numerical study of the convergence properties of ENO schemes. Journal of Scientific Computing, 1990, 5, 151-167.	1.1	68
155	Nonlinear unstable viscous fingers in Hele‑Shaw flows. II. Numerical simulation. Physics of Fluids, 1988, 31, 429.	1.4	86
156	Physics of Cohesive Sediment Flocculation and Transport: State-of-the-Art Experimental and Numerical Techniques. , 0, , .		1