

Alfredo Soldati

List of Publications by Year in descending order

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Version: 2024-02-01

164
papers

5,428
citations

87888

38
h-index

95266

68
g-index

173
all docs

173
docs citations

173
times ranked

3223
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling the direct virus exposure risk associated with respiratory events. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210819.	3.4	15
2	Influence of Reynolds number on the dynamics of rigid, slender and non-axisymmetric fibres in channel flow turbulence. <i>Journal of Fluid Mechanics</i> , 2022, 934, .	3.4	3
3	Interface topology and evolution of particle patterns on deformable drops in turbulence. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	3.4	8
4	Influence of density and viscosity on deformation, breakage, and coalescence of bubbles in turbulence. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	7
5	Strong Rayleighâ€“Darcy convection regime in three-dimensional porous media. <i>Journal of Fluid Mechanics</i> , 2022, 943, .	3.4	4
6	Interaction between thermal stratification and turbulence in channel flow. <i>Journal of Fluid Mechanics</i> , 2022, 945, .	3.4	2
7	Particle capture by drops in turbulent flow. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	11
8	Towards the ultimate regime in Rayleighâ€“Darcy convection. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	18
9	Long non-axisymmetric fibres in turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	3.4	13
10	Turbulent Flows With Drops and Bubbles: What Numerical Simulations Can Tell Usâ€“Freeman Scholar Lecture. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, 143, .	1.5	20
11	Dynamics of semi- and neutrally-buoyant particles in thermally stratified turbulent channel flow. <i>International Journal of Multiphase Flow</i> , 2021, 139, 103595.	3.4	1
12	Short-range exposure to airborne virus transmission and current guidelines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	43
13	Energy balance in lubricated drag-reduced turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	16
14	Deformation of clean and surfactant-laden droplets in shear flow. <i>Meccanica</i> , 2020, 55, 371-386.	2.0	21
15	Deformation of flexible fibers in turbulent channel flow. <i>Meccanica</i> , 2020, 55, 343-356.	2.0	19
16	Host-to-host airborne transmission as a multiphase flow problem for science-based social distance guidelines. <i>International Journal of Multiphase Flow</i> , 2020, 132, 103439.	3.4	137
17	Editorial: Multiphase flow community must have a role in predicting host-to-host airborne contagion. <i>International Journal of Multiphase Flow</i> , 2020, 132, 103440.	3.4	1
18	Concentration-based velocity reconstruction in convective Heleâ€“Shaw flows. <i>Experiments in Fluids</i> , 2020, 61, 1.	2.4	7

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19	How non-Darcy effects influence scaling laws in Hele-Shaw convection experiments. <i>Journal of Fluid Mechanics</i> , 2020, 892, .	3.4	17
20	Effect of surfactant-laden droplets on turbulent flow topology. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	18
21	Shear Effects on Scalar Transport in Double Diffusive Convection1. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020, 142, .	1.5	5
22	Breakage, coalescence and size distribution of surfactant-laden droplets in turbulent flow. <i>Journal of Fluid Mechanics</i> , 2019, 881, 244-282.	3.4	46
23	Turbulent drag reduction by compliant lubricating layer. <i>Journal of Fluid Mechanics</i> , 2019, 863, .	3.4	15
24	Mass-conservation-improved phase field methods for turbulent multiphase flow simulation. <i>Acta Mechanica</i> , 2019, 230, 683-696.	2.1	41
25	Coalescence of surfactant-laden drops by Phase Field Method. <i>Journal of Computational Physics</i> , 2019, 376, 1292-1311.	3.8	55
26	Wind effect on gyrotactic micro-organism surfacing in free-surface turbulence. <i>Advances in Water Resources</i> , 2019, 129, 328-337.	3.8	12
27	Rayleigh-Taylor convective dissolution in confined porous media. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	23
28	Universal behavior of scalar dissipation rate in confined porous media. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	10
29	Role of large-scale advection and small-scale turbulence on vertical migration of gyrotactic swimmers. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	10
30	Turbulent Drag Reduction by a Near Wall Surface Tension Active Interface. <i>Flow, Turbulence and Combustion</i> , 2018, 100, 979-993.	2.6	6
31	Special Issue dedicated to the memory of Franz Ziegler. <i>Acta Mechanica</i> , 2018, 229, 421-421.	2.1	0
32	Turbulent drag reduction in channel flow with viscosity stratified fluids. <i>Computers and Fluids</i> , 2018, 176, 260-265.	2.5	6
33	Application limits of Jeffery's theory for elongated particle torques in turbulence: a DNS assessment. <i>Acta Mechanica</i> , 2018, 229, 827-839.	2.1	17
34	Stably Stratified Wall-Bounded Turbulence. <i>Applied Mechanics Reviews</i> , 2018, 70, .	10.1	26
35	Particle resuspension by a periodically forced impinging jet. <i>Journal of Fluid Mechanics</i> , 2017, 820, 284-311.	3.4	16
36	Thermal stratification hinders gyrotactic micro-organism rising in free-surface turbulence. <i>Physics of Fluids</i> , 2017, 29, 053302.	4.0	17

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37	Dissolution in anisotropic porous media: Modelling convection regimes from onset to shutdown. <i>Physics of Fluids</i> , 2017, 29, .	4.0	50
38	Anisotropic Particles in Turbulence. <i>Annual Review of Fluid Mechanics</i> , 2017, 49, 249-276.	25.0	230
39	Fiber suspension investigation in a backward-facing step by PIV. <i>Journal of Physics: Conference Series</i> , 2017, 882, 012018.	0.4	0
40	Viscosity-modulated breakup and coalescence of large drops in bounded turbulence. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	34
41	Influence of anisotropic permeability on convection in porous media: Implications for geological CO2 sequestration. <i>Physics of Fluids</i> , 2016, 28, .	4.0	50
42	Review and Perspective in Mechanics. <i>Acta Mechanica</i> , 2016, 227, 3325-3325.	2.1	0
43	Decay of gravity-capillary waves in air/water sheared turbulence. <i>International Journal of Heat and Fluid Flow</i> , 2016, 61, 137-144.	2.4	7
44	Modelling soot deposition and monolith regeneration for optimal design of automotive DPFs. <i>Chemical Engineering Science</i> , 2016, 151, 36-50.	3.8	35
45	Turbulence modification by dispersion of large deformable droplets. <i>European Journal of Mechanics, B/Fluids</i> , 2016, 55, 294-299.	2.5	16
46	Review and Perspective in Mechanics. <i>Acta Mechanica</i> , 2016, 227, 617-617.	2.1	0
47	Growth and spectra of gravity-capillary waves in countercurrent air/water turbulent flow. <i>Journal of Fluid Mechanics</i> , 2015, 777, 245-259.	3.4	35
48	Turbulent breakage of ductile aggregates. <i>Physical Review E</i> , 2015, 91, 053003.	2.1	17
49	Coalescence and breakup of large droplets in turbulent channel flow. <i>Physics of Fluids</i> , 2015, 27, .	4.0	43
50	Review and perspective in mechanics. <i>Acta Mechanica</i> , 2015, 226, 3905-3905.	2.1	0
51	Turbulent Drag Reduction by Biopolymers in Large Scale Pipes. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015, 137, .	1.5	17
52	Experimental investigation on interactions among fluid and rod-like particles in a turbulent pipe jet by means of particle image velocimetry. <i>Experiments in Fluids</i> , 2015, 56, 1.	2.4	120
53	Wall drag modification by large deformable droplets in turbulent channel flow. <i>Computers and Fluids</i> , 2015, 113, 87-92.	2.5	7
54	Upscale energy transfer and flow topology in free-surface turbulence. <i>Physical Review E</i> , 2015, 91, 033010.	2.1	13

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55	Review and perspective in mechanics. <i>Acta Mechanica</i> , 2015, 226, 977-977.	2.1	0
56	Numerical simulations of aggregate breakup in bounded and unbounded turbulent flows. <i>Journal of Fluid Mechanics</i> , 2015, 766, 104-128.	3.4	36
57	Urban air pollution by odor sources: Short time prediction. <i>Atmospheric Environment</i> , 2015, 122, 74-82.	4.1	5
58	Particle tracking in LES flow fields: conditional Lagrangian statistics of filtering error. <i>Journal of Turbulence</i> , 2014, 15, 22-33.	1.4	14
59	Effect of Temperature Dependent Fluid Properties on Heat Transfer in Turbulent Mixed Convection. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	43
60	Electronic and Morphological Characterization of Nanostructured Ni-Doped (Ce,Gd)O ₂ - δ Anodes for IT-SOFCs. <i>ECS Transactions</i> , 2014, 64, 233-240.	0.5	1
61	Influence of thermal stratification on the surfacing and clustering of floaters in free surface turbulence. <i>Advances in Water Resources</i> , 2014, 72, 22-31.	3.8	19
62	Large eddy simulation of particulate flow inside a differentially heated cavity. <i>Nuclear Engineering and Design</i> , 2014, 267, 154-163.	1.7	8
63	Stable Stratification in Wall-Bounded Turbulent Flows. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2014, , 189-196.	0.3	0
64	Probability Distribution of Intrinsic Filtering Errors in Lagrangian Particle Tracking in LES Flow Fields. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2014, , 149-156.	0.3	0
65	Rotation statistics of fibers in wall shear turbulence. <i>Acta Mechanica</i> , 2013, 224, 2311-2329.	2.1	58
66	Mixing and entrainment in the near field of turbulent round jets. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	17
67	Phase discrimination and object fitting to measure fibers distribution and orientation in turbulent pipe flows. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	15
68	Particle and droplet deposition in turbulent swirled pipe flow. <i>International Journal of Multiphase Flow</i> , 2013, 56, 172-183.	3.4	43
69	Minimal perfusion flow for osteogenic growth of mesenchymal stem cells on lattice scaffolds. <i>AICHE Journal</i> , 2013, 59, 3131-3144.	3.6	10
70	Anisotropic particles in turbulence: status and outlook. <i>Acta Mechanica</i> , 2013, 224, 2219-2223.	2.1	15
71	Large eddy simulation of the differentially heated cubic cavity flow by the spectral element method. <i>Computers and Fluids</i> , 2013, 86, 210-227.	2.5	16
72	Unified framework for a side-by-side comparison of different multicomponent algorithms: Lattice Boltzmann vs. phase field model. <i>Journal of Computational Physics</i> , 2013, 234, 263-279.	3.8	44

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73	Turbulence modulation across the interface of a large deformable drop. <i>Journal of Turbulence</i> , 2013, 14, 27-43.	1.4	20
74	Time persistence of floating-particle clusters in free-surface turbulence. <i>Physical Review E</i> , 2013, 88, 033003.	2.1	30
75	Rotation statistics of rigid fibers in turbulent channel flow. , 2013, , .		0
76	On shear lift force modelling for non-spherical particles in turbulent flows. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	6
77	Intrinsic filtering errors of Lagrangian particle tracking in LES flow fields. <i>Physics of Fluids</i> , 2012, 24, .	4.0	41
78	Turbulence modulation and microbubble dynamics in vertical channel flow. <i>International Journal of Multiphase Flow</i> , 2012, 42, 80-95.	3.4	36
79	Sediment transport in steady turbulent boundary layers: Potentials, limitations, and perspectives for Lagrangian tracking in DNS and LES. <i>Advances in Water Resources</i> , 2012, 48, 18-30.	3.8	35
80	Anisotropy in pair dispersion of inertial particles in turbulent channel flow. <i>Physics of Fluids</i> , 2012, 24, .	4.0	23
81	Modulation of turbulence in forced convection by temperature-dependent viscosity. <i>Journal of Fluid Mechanics</i> , 2012, 697, 150-174.	3.4	109
82	Turbulence and internal waves in stably-stratified channel flow with temperature-dependent fluid properties. <i>Journal of Fluid Mechanics</i> , 2012, 697, 175-203.	3.4	53
83	Protocols to compare infusion distribution of wound catheters. <i>Medical Engineering and Physics</i> , 2012, 34, 326-332.	1.7	7
84	Stable stratification in wall-bounded turbulent flows. , 2012, , .		0
85	Statistical properties of an ideal subgrid-scale correction for Lagrangian particle tracking in turbulent channel flow. <i>Journal of Physics: Conference Series</i> , 2011, 333, 012004.	0.4	0
86	DNS of buoyancy-driven flows and Lagrangian particle tracking in a square cavity at high Rayleigh numbers. <i>International Journal of Heat and Fluid Flow</i> , 2011, 32, 915-931.	2.4	38
87	Time behavior of heat fluxes in thermally coupled turbulent dispersed particle flows. <i>Acta Mechanica</i> , 2011, 218, 367-373.	2.1	11
88	Inertial particle segregation and deposition in large-eddy simulation of turbulent wall-bounded flows. <i>ERCOFTAC Series</i> , 2011, , 191-200.	0.1	1
89	On the Error Estimate in Sub-Grid Models for Particles in Turbulent Flows. <i>ERCOFTAC Series</i> , 2011, , 171-176.	0.1	3
90	Benchmark test on particle-laden channel flow with point-particle LES. <i>ERCOFTAC Series</i> , 2011, , 177-182.	0.1	3

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91	On the role of gravity and shear on inertial particle accelerations in near-wall turbulence. Journal of Fluid Mechanics, 2010, 658, 229-246.	3.4	33
92	Modeling nano-particle deposition in diesel engine filters. Chemical Engineering Science, 2010, 65, 6443-6451.	3.8	8
93	Orientation, distribution, and deposition of elongated, inertial fibers in turbulent channel flow. Physics of Fluids, 2010, 22, .	4.0	168
94	Direct Numerical Simulation of Buoyancy Driven Turbulence inside a Cubic Cavity. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2010, , 295-301.	0.3	1
95	Aerodynamic Analysis of a Two-Man Bobsleigh. IFMBE Proceedings, 2010, , 228-231.	0.3	1
96	Measuring segregation of inertial particles in turbulence by a full Lagrangian approach. Physical Review E, 2009, 80, 015302.	2.1	19
97	Computing flow, combustion, heat transfer and thrust in a micro-rocket via hierarchical problem decomposition. Microfluidics and Nanofluidics, 2009, 7, 57-73.	2.2	10
98	Turbulent Flow and Dispersion of Inertial Particles in a Confined Jet Issued by a Long Cylindrical Pipe. Flow, Turbulence and Combustion, 2009, 82, 1-23.	2.6	12
99	Ekman pumping and intermittent particle resuspension in a stirred tank reactor. Chemical Engineering Research and Design, 2009, 87, 557-564.	5.6	9
100	Physics and modelling of turbulent particle deposition and entrainment: Review of a systematic study. International Journal of Multiphase Flow, 2009, 35, 827-839.	3.4	205
101	Heat Transfer Modulation by Microparticles in Turbulent Channel Flow. Springer Proceedings in Physics, 2009, , 159-162.	0.2	4
102	Direct Numerical Simulation of inertial particle accelerations in near-wall turbulence: effect of gravity. Springer Proceedings in Physics, 2009, , 343-346.	0.2	1
103	Quantification of heavy particle segregation in turbulent flows: a Lagrangian approach. Springer Proceedings in Physics, 2009, , 489-492.	0.2	0
104	Direct Numerical Simulation of Microbubble Dispersion in Vertical Turbulent Channel Flow. Springer Proceedings in Physics, 2009, , 239-242.	0.2	0
105	Direct Numerical Simulation of heat transfer in turbulent flows laden with microparticles. , 2009, , .		0
106	Statistics of particle dispersion in direct numerical simulations of wall-bounded turbulence: Results of an international collaborative benchmark test. International Journal of Multiphase Flow, 2008, 34, 879-893.	3.4	195
107	Direct numerical simulation of turbulent heat transfer modulation in micro-dispersed channel flow. Acta Mechanica, 2008, 195, 305-326.	2.1	47
108	Appraisal of energy recovering sub-grid scale models for large-eddy simulation of turbulent dispersed flows. Acta Mechanica, 2008, 201, 277-296.	2.1	38

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109	Controlling particle dispersion in a transverse jet by synchronized injection. <i>AIChE Journal</i> , 2008, 54, 1975-1986.	3.6	4
110	Some issues concerning large-eddy simulation of inertial particle dispersion in turbulent bounded flows. <i>Physics of Fluids</i> , 2008, 20, .	4.0	88
111	Lagrangian Tracking of Heavy Particles in Large-Eddy Simulation of Turbulent Channel Flow. <i>ERCOFTAC Series</i> , 2008, , 355-366.	0.1	0
112	Influence of added mass on anomalous high rise velocity of light particles in cellular flow field: A note on the paper by Maxey (1987). <i>Physics of Fluids</i> , 2007, 19, 098101.	4.0	15
113	Simple and accurate scheme for fluid velocity interpolation for Eulerian-Lagrangian computation of dispersed flows in 3D curvilinear grids. <i>Computers and Fluids</i> , 2007, 36, 1187-1198.	2.5	38
114	Towards the development of a fossil bone geochemical standard: An inter-laboratory study. <i>Analytica Chimica Acta</i> , 2007, 599, 177-190.	5.4	19
115	Influence of gravity and lift on particle velocity statistics and transfer rates in turbulent vertical channel flow. <i>International Journal of Multiphase Flow</i> , 2007, 33, 227-251.	3.4	118
116	Modelling of a multiphase reacting turbulent jet: Application to supersonic carbon injection in siderurgic furnaces. <i>Chemical Engineering Science</i> , 2007, 62, 4439-4458.	3.8	3
117	Reynolds number scaling of particle preferential concentration in turbulent channel flow. , 2007, , 298-300.		8
118	Quantification of Particle and Fluid Scales in Particle-Laden Turbulent Channel Flow. , 2006, , 1683.		0
119	Direct numerical simulation of turbulent particle dispersion in an unbaffled stirred-tank reactor. <i>Chemical Engineering Science</i> , 2006, 61, 2843-2851.	3.8	51
120	Mechanisms for deposition and resuspension of heavy particles in turbulent flow over wavy interfaces. <i>Physics of Fluids</i> , 2006, 18, 025102.	4.0	55
121	Particle dispersion and wall-dependent turbulent flow scales: implications for local equilibrium models. <i>Journal of Turbulence</i> , 2006, 7, N60.	1.4	30
122	Turbulence Modulation by Micro-Particles in Boundary Layers. , 2006, , 53-62.		4
123	On the closure of particle motion equations in large-eddy simulation. , 2006, , 311-318.		1
124	Statistics of velocity and preferential accumulation of micro-particles in boundary layer turbulence. <i>Nuclear Engineering and Design</i> , 2005, 235, 1239-1249.	1.7	42
125	Influence of the lift force in direct numerical simulation of upward/downward turbulent channel flow laden with surfactant contaminated microbubbles. <i>Chemical Engineering Science</i> , 2005, 60, 6176-6187.	3.8	35
126	Appraisal of three-dimensional numerical simulation for sub-micron particle deposition in a micro-porous ceramic filter. <i>Chemical Engineering Science</i> , 2005, 60, 6551-6563.	3.8	48

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127	Mechanisms for microparticle dispersion in a jet in crossflow. <i>AIChE Journal</i> , 2005, 51, 28-43.	3.6	22
128	Particles turbulence interactions in boundary layers. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2005, 85, 683-699.	1.6	48
129	Characterization of near-wall accumulation regions for inertial particles in turbulent boundary layers. <i>Physics of Fluids</i> , 2005, 17, 098101.	4.0	69
130	Influence of Jet Inlet Conditions on Time-Average Behavior of Transverse Jets. <i>AIAA Journal</i> , 2005, 43, 1549-1555.	2.6	3
131	Mechanisms for selective radial dispersion of microparticles in the transitional region of a confined turbulent round jet. <i>International Journal of Multiphase Flow</i> , 2004, 30, 1389-1417.	3.4	38
132	Numerical Evaluation of Mixing Time in a Tank Reactor Stirred by a Magnetically Driven Impeller. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 6836-6846.	3.7	5
133	Bi-Propellant Micro-Rocket Engine. , 2004, , .		5
134	Time-dependent flow structures and Lagrangian mixing in Rushton-impeller baffled-tank reactor. <i>Chemical Engineering Science</i> , 2003, 58, 1615-1629.	3.8	27
135	Direct numerical simulation of particle wall transfer and deposition in upward turbulent pipe flow. <i>International Journal of Multiphase Flow</i> , 2003, 29, 1017-1038.	3.4	115
136	Artificial neural network approach to flood forecasting in the River Arno. <i>Hydrological Sciences Journal</i> , 2003, 48, 381-398.	2.6	173
137	Cost-Efficiency Analysis of a Model Wire-Plate Electrostatic Precipitator via DNS Based Eulerian Particle Transport Approach. <i>Aerosol Science and Technology</i> , 2003, 37, 171-182.	3.1	16
138	Mechanisms of particle deposition in a fully developed turbulent open channel flow. <i>Physics of Fluids</i> , 2003, 15, 763-775.	4.0	105
139	Modeling turbulent particle dispersion in transverse jets. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2003, , 193-210.	0.6	1
140	Numerical appraisal of jet-to-crossflow coupling in a transverse jet. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2003, , 49-65.	0.6	0
141	Interaction between Turbulence Structures and Inertial Particles in Boundary Layer: Mechanisms for Particle Transfer and Preferential Distribution. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2003, , 383-429.	0.6	1
142	Fluid Dynamic Efficiency and Scale-up of a Retreated Blade Impeller CSTR. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 164-172.	3.7	20
143	Appraisal of Fluid Dynamic Efficiency of Retreated-Blade and Turbofoil Impellers in Industrial-Size CSTRs. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 1370-1377.	3.7	12
144	Mechanisms for particle transfer and segregation in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2002, 468, 283-315.	3.4	386

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145	Water quality control in the river Arno. <i>Water Research</i> , 2002, 36, 2673-2680.	11.3	41
146	Current-density approximation for efficient computation of the electrostatic field in wire-plate precipitators. <i>IEEE Transactions on Industry Applications</i> , 2002, 38, 858-865.	4.9	7
147	Influence of large-scale streamwise vortical EHD flows on wall turbulence. <i>International Journal of Heat and Fluid Flow</i> , 2002, 23, 441-443.	2.4	10
148	ADE approach to predicting dispersion of heavy particles in wall-bounded turbulence. <i>International Journal of Multiphase Flow</i> , 2001, 27, 1861-1879.	3.4	42
149	Approximation and Reconstruction of the Electrostatic Field in Wire-Plate Precipitators by a Low-Order Model. <i>Journal of Computational Physics</i> , 2001, 170, 893-916.	3.8	10
150	Time-dependent finite-volume simulation of the turbulent flow in a free-surface CSTR. <i>Chemical Engineering Science</i> , 2001, 56, 2715-2720.	3.8	30
151	Prospects for Modulation of Turbulent Boundary Layer by EHD Flows. , 2001, , 119-160.		6
152	ON THE EFFECTS OF ELECTROHYDRODYNAMIC FLOWS AND TURBULENCE ON AEROSOL TRANSPORT AND COLLECTION IN WIRE-PLATE ELECTROSTATIC PRECIPITATORS. <i>Journal of Aerosol Science</i> , 2000, 31, 293-305.	3.8	74
153	Forecasting river flow rate during low-flow periods using neural networks. <i>Water Resources Research</i> , 1999, 35, 3547-3552.	4.2	68
154	River flood forecasting with a neural network model. <i>Water Resources Research</i> , 1999, 35, 1191-1197.	4.2	367
155	Introducing deviations and multiple abstraction levels in the functional diagnosis of fluid transfer systems. <i>Advanced Engineering Informatics</i> , 1998, 12, 355-373.	0.5	7
156	Turbulence modification by large-scale organized electrohydrodynamic flows. <i>Physics of Fluids</i> , 1998, 10, 1742-1756.	4.0	114
157	Lagrangian simulation of turbulent particle dispersion in electrostatic precipitators. <i>AIChE Journal</i> , 1997, 43, 1403-1413.	3.6	26
158	The influence of coalescence on droplet transfer in vertical annular flow. <i>Chemical Engineering Science</i> , 1996, 51, 353-363.	3.8	20
159	Characterization of subregimes in two-phase slug flow. <i>International Journal of Multiphase Flow</i> , 1996, 22, 783-796.	3.4	21
160	Identification of two phase flow regimes via diffusional analysis of experimental time series. <i>Experiments in Fluids</i> , 1996, 21, 151-160.	2.4	14
161	DIFFUSIONAL ANALYSIS OF INTERMITTENT TWO-PHASE FLOW TRANSITIONS. <i>Fractals</i> , 1994, 02, 265-268.	3.7	3
162	THE APPLICATION OF DIFFUSIONAL TECHNIQUES IN TIME-SERIES ANALYSIS TO IDENTIFY COMPLEX FLUID DYNAMIC REGIMES. <i>Fractals</i> , 1994, 02, 503-520.	3.7	11

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163	Direct simulation of turbulent particle transport in electrostatic precipitators. AICHE Journal, 1993, 39, 1910-1919.	3.6	19
164	Analytical approximation and proper orthogonal decomposition for efficient computations of electrostatic fields in wire-duct precipitators. , 0, , .		0