

# S Elghobashi

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

3,376  
citations

687363

13  
h-index

839539

18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1762  
citing authors

#	ARTICLE	IF	CITATIONS
1	On predicting particle-laden turbulent flows. Flow, Turbulence and Combustion, 1994, 52, 309-329.	0.2	1,130
2	On the two-way interaction between homogeneous turbulence and dispersed solid particles. I: Turbulence modification. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1790-1801.	1.6	490
3	Direct simulation of particle dispersion in a decaying isotropic turbulence. Journal of Fluid Mechanics, 1992, 242, 655-700.	3.4	391
4	On the physical mechanisms of two-way coupling in particle-laden isotropic turbulence. Physics of Fluids, 2003, 15, 315-329.	4.0	297
5	Particle-laden turbulent flows: direct simulation and closure models. Flow, Turbulence and Combustion, 1991, 48, 301-314.	0.2	196
6	Two-component LDA measurement in a two-phase turbulent jet. AIAA Journal, 1984, 22, 624-630.	2.6	179
7	Direct numerical simulations of bubble-laden turbulent flows using the two-fluid formulation. Physics of Fluids, 1998, 10, 685-697.	4.0	133
8	Prediction of the particle-laden jet with a two-equation turbulence model. International Journal of Multiphase Flow, 1984, 10, 697-710.	3.4	124
9	On the mechanisms of modifying the structure of turbulent homogeneous shear flows by dispersed particles. Physics of Fluids, 2000, 12, 2906.	4.0	114
10	On the decay rate of isotropic turbulence laden with microparticles. Physics of Fluids, 1999, 11, 602-610.	4.0	80
11	Direct numerical simulation of particle dispersion in homogeneous turbulent shear flows. Physics of Fluids, 2001, 13, 3346-3364.	4.0	67
12	On the two-way interaction between homogeneous turbulence and dispersed solid particles. II. Particle dispersion. Physics of Fluids, 1994, 6, 1405-1407.	4.0	63
13	On locating the obstruction in the upper airway via numerical simulation. Respiratory Physiology and Neurobiology, 2014, 193, 1-10.	1.6	44
14	Particle-laden turbulent flows: direct simulation and closure models. , 1991, , 91-104.		25
15	An experimental study of a turbulent round two-phase jet. , 1982, , .		13
16	Effects of gravity on turbulent nonpremixed flames. Physics of Fluids, 1999, 11, 3123-3135.	4.0	13
17	Effect of heated air blanket on the dispersion of squames in an operating room. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2960.	2.1	11
18	Eulerian-Lagrangian bridge for the energy and dissipation spectra in isotropic turbulence. Theoretical and Computational Fluid Dynamics, 2014, 28, 197-213.	2.2	3

#	ARTICLE	IF	CITATIONS
19	Analytical model of the time developing turbulent boundary layer. JETP Letters, 2007, 86, 102-107.	1.4	1