

Jean-Pierre Minier

List of Publications by Year in descending order

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42
papers

1,614
citations

331670

21
h-index

315739

38
g-index

43
all docs

43
docs citations

43
times ranked

902
citing authors

#	ARTICLE	IF	CITATIONS
1	The pdf approach to turbulent polydispersed two-phase flows. <i>Physics Reports</i> , 2001, 352, 1-214.	25.6	249
2	Progress in particle resuspension from rough surfaces by turbulent flows. <i>Progress in Energy and Combustion Science</i> , 2014, 45, 1-53.	31.2	157
3	Towards a description of particulate fouling: From single particle deposition to clogging. <i>Advances in Colloid and Interface Science</i> , 2012, 185-186, 34-76.	14.7	146
4	On the Lagrangian turbulent dispersion models based on the Langevin equation. <i>International Journal of Multiphase Flow</i> , 1998, 24, 913-945.	3.4	107
5	Probability density function modeling of dispersed two-phase turbulent flows. <i>Physical Review E</i> , 1999, 59, 855-863.	2.1	86
6	On Lagrangian stochastic methods for turbulent polydisperse two-phase reactive flows. <i>Progress in Energy and Combustion Science</i> , 2015, 50, 1-62.	31.2	79
7	PDF model based on Langevin equation for polydispersed two-phase flows applied to a bluff-body gas-solid flow. <i>Physics of Fluids</i> , 2004, 16, 2419-2431.	4.0	73
8	Guidelines for the formulation of Lagrangian stochastic models for particle simulations of single-phase and dispersed two-phase turbulent flows. <i>Physics of Fluids</i> , 2014, 26, .	4.0	72
9	A new model for the simulation of particle resuspension by turbulent flows based on a stochastic description of wall roughness and adhesion forces. <i>Journal of Aerosol Science</i> , 2008, 39, 957-973.	3.8	66
10	Numerical Study on the Deposition Rate of Hematite Particle on Polypropylene Walls: Role of Surface Roughness. <i>Langmuir</i> , 2011, 27, 4603-4612.	3.5	51
11	A stochastic model of coherent structures for particle deposition in turbulent flows. <i>Physics of Fluids</i> , 2008, 20, .	4.0	50
12	Probability density function computation of turbulent flows with a new near-wall model. <i>Physics of Fluids</i> , 2004, 16, 1410-1422.	4.0	45
13	Numerical Study on the Adhesion and Reentrainment of Nondeformable Particles on Surfaces: The Role of Surface Roughness and Electrostatic Forces. <i>Langmuir</i> , 2012, 28, 438-452.	3.5	44
14	Langevin PDF simulation of particle deposition in a turbulent pipe flow. <i>Journal of Aerosol Science</i> , 2008, 39, 555-571.	3.8	42
15	Probabilistic formalism and hierarchy of models for polydispersed turbulent two-phase flows. <i>Physical Review E</i> , 2002, 65, 046301.	2.1	41
16	Statistical descriptions of polydisperse turbulent two-phase flows. <i>Physics Reports</i> , 2016, 665, 1-122.	25.6	36
17	Wall-boundary conditions in probability density function methods and application to a turbulent channel flow. <i>Physics of Fluids</i> , 1999, 11, 2632-2644.	4.0	30
18	Weak first- and second-order numerical schemes for stochastic differential equations appearing in Lagrangian two-phase flow modeling. <i>Monte Carlo Methods and Applications</i> , 2003, 9, .	0.8	30

#	ARTICLE	IF	CITATIONS
19	A stochastic approach for the simulation of particle resuspension from rough substrates: Model and numerical implementation. <i>Journal of Aerosol Science</i> , 2014, 77, 168-192.	3.8	28
20	A New Stochastic Approach for the Simulation of Agglomeration between Colloidal Particles. <i>Langmuir</i> , 2013, 29, 13694-13707.	3.5	26
21	Derivation of a PDF model for turbulent flows based on principles from statistical physics. <i>Physics of Fluids</i> , 1997, 9, 1748-1753.	4.0	25
22	A note on the consistency of hybrid Eulerian/Lagrangian approach to multiphase flows. <i>International Journal of Multiphase Flow</i> , 2011, 37, 293-297.	3.4	21
23	Colloidal particle resuspension: On the need for refined characterisation of surface roughness. <i>Journal of Aerosol Science</i> , 2018, 118, 1-13.	3.8	19
24	A stochastic approach for the simulation of collisions between colloidal particles at large time steps. <i>International Journal of Multiphase Flow</i> , 2014, 61, 94-107.	3.4	17
25	Stochastic modelling of conjugate heat transfer in near-wall turbulence. <i>International Journal of Heat and Fluid Flow</i> , 2006, 27, 867-877.	2.4	11
26	Kinetic and dynamic probability-density-function descriptions of disperse turbulent two-phase flows. <i>Physical Review E</i> , 2015, 92, 053020.	2.1	11
27	Full velocity-scalar probability density function computation of heated channel flow with wall function approach. <i>Physics of Fluids</i> , 2003, 15, 1220-1232.	4.0	10
28	A refined algorithm to simulate latex colloid agglomeration at high ionic strength. <i>Adsorption</i> , 2016, 22, 503-515.	3.0	7
29	Probability density function computation of heated turbulent channel flow with the bounded Langevin model. <i>Journal of Turbulence</i> , 2003, 4, .	1.4	6
30	Scalar and joint velocity-scalar PDF modelling of near-wall turbulent heat transfer. <i>International Journal of Heat and Fluid Flow</i> , 2004, 25, 884-895.	2.4	6
31	The FDF or LES/PDF method for turbulent two-phase flows. <i>Journal of Physics: Conference Series</i> , 2011, 318, 042049.	0.4	5
32	A methodology to devise consistent probability density function models for particle dynamics in turbulent dispersed two-phase flows. <i>Physics of Fluids</i> , 2021, 33, .	4.0	5
33	A Finite Volume Scheme For Hybrid Turbulent Two-Phase Flow Models. , 2007, , .		3
34	Filtered density function modelling of near-wall scalar transport with POD velocity modes. <i>International Journal of Heat and Fluid Flow</i> , 2009, 30, 76-87.	2.4	3
35	Probabilistic approach to turbulent two-phase flows modelling and simulation: theoretical and numerical issues. <i>Monte Carlo Methods and Applications</i> , 2001, 7, .	0.8	2
36	Stochastic modelling of polydisperse turbulent two-phase flows. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2014, , 39-86.	0.6	2

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37	A General Introduction to Particle Deposition. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2017, , 1-36.	0.6	1
38	A Two-Dimensional Relaxation Scheme for the Hybrid Modelling of Two-Phase Flows. Springer Proceedings in Mathematics, 2011, , 351-359.	0.5	1
39	Modélisation stochastique du dépôt et de la remise en suspension de particules dans un écoulement turbulent. Houille Blanche, 2011, 97, 82-86.	0.3	1
40	Modélisation stochastique d'écoulements diphasiques avec changement de phase. Comptes Rendus - Mécanique, 2011, 339, 418-431.	2.1	0
41	Stochastic Modelling of Conjugate Heat Transfer in Near-Wall Turbulence. , 2005, , 803-812.		0
42	Mathematical background on stochastic processes. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2014, , 1-38.	0.6	0