

# Miltiadis Papalexandris

## List of Publications by Year in descending order

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53  
papers

1,071  
citations

430874

18  
h-index

434195

31  
g-index

53  
all docs

53  
docs citations

53  
times ranked

494  
citing authors

#	ARTICLE	IF	CITATIONS
1	A computational framework for electrification of liquid flows. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, 74, 104637.	3.3	1
2	On the dynamics of the large scale circulation in turbulent convection with a free-slip upper boundary. <i>International Journal of Heat and Mass Transfer</i> , 2022, 183, 122220.	4.8	4
3	Large-Eddy Simulations of Spray a Flames Using Explicit Coupling of the Energy Equation with the FGM Database. <i>Flow, Turbulence and Combustion</i> , 2022, 109, 193-223.	2.6	4
4	Numerical study of the collapse of columns of sand immersed in water using two-phase flow modelling. <i>International Journal of Multiphase Flow</i> , 2022, 153, 104143.	3.4	3
5	Turbulent thermal convection driven by free-surface evaporation in cuboidal domains of different aspect ratios. <i>Physics of Fluids</i> , 2021, 33, 015104.	4.0	3
6	Attenuation of gaseous detonations by porous media of fine microstructure. <i>Combustion and Flame</i> , 2021, 232, 111518.	5.2	8
7	The effect of electrostatic charges on particle-laden duct flows. <i>Journal of Fluid Mechanics</i> , 2021, 909, .	3.4	17
8	On the applicability of Stokesâ€™ hypothesis to low-Mach-number flows. <i>Continuum Mechanics and Thermodynamics</i> , 2020, 32, 1245-1249.	2.2	11
9	Bridging the gap between the Darcy-Brinkman equations and the Nielsen model for tortuosity in polymer-filled systems. <i>Chemical Engineering Science</i> , 2020, 213, 115394.	3.8	6
10	Evaporation-driven turbulent convection in water pools. <i>Journal of Fluid Mechanics</i> , 2020, 904, .	3.4	7
11	Assessment of Droplet Breakup Models for Spray Flow Simulations. <i>Flow, Turbulence and Combustion</i> , 2020, 105, 889-914.	2.6	12
12	Powder electrification during pneumatic transport: The role of the particle properties and flow rates. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 58, 60-69.	3.3	16
13	Numerical simulations of turbulent thermal convection with a free-slip upper boundary. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190601.	2.1	8
14	Direct numerical simulation of turbulent heat transfer in a T-junction. <i>Journal of Fluid Mechanics</i> , 2018, 845, 581-614.	3.4	24
15	Influence of the Rotor Configuration on the Electrostatic Charging of Helicopters. <i>AIAA Journal</i> , 2018, 56, 368-375.	2.6	4
16	Time-accurate calculation of two-phase granular flows exhibiting compaction, dilatancy and nonlinear rheology. <i>Journal of Computational Physics</i> , 2018, 372, 799-822.	3.8	4
17	On the Relevance of Low-Mach-Number Asymptotics in Thermodynamics of Heterogeneous, Immiscible Mixtures. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2017, 42, .	4.2	2
18	Modeling the electrostatic charging of a helicopter during hovering in dusty atmosphere. <i>Aerospace Science and Technology</i> , 2017, 64, 31-38.	4.8	10

#	ARTICLE	IF	CITATIONS
19	On the well-posedness of the Darcy–Brinkman–Forchheimer equations for coupled porous media-clear fluid flow. <i>Nonlinearity</i> , 2017, 30, 1449-1464.	1.4	10
20	Numerical study of the influence of the powder and pipe properties on electrical charging during pneumatic conveying. <i>Powder Technology</i> , 2017, 315, 227-235.	4.2	27
21	Direct numerical simulation of triboelectric charging in particle-laden turbulent channel flows. <i>Journal of Fluid Mechanics</i> , 2017, 818, 465-491.	3.4	47
22	On the accuracy of the numerical computation of the electrostatic forces between charged particles. <i>Powder Technology</i> , 2017, 322, 185-194.	4.2	17
23	Turbulent mixing in T-junctions: The role of the temperature as an active scalar. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 793-809.	4.8	26
24	Poiseuille flow of dense non-colloidal suspensions: The role of intergranular and nonlocal stresses in particle migration. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017, 247, 229-238.	2.4	19
25	Numerical study of turbulent flow in a rectangular T-junction. <i>Physics of Fluids</i> , 2017, 29, .	4.0	10
26	A model for the non-uniform contact charging of particles. <i>Powder Technology</i> , 2017, 305, 518-527.	4.2	34
27	A two-phase thermomechanical theory for granular suspensions. <i>Journal of Fluid Mechanics</i> , 2016, 808, 410-440.	3.4	12
28	Stability of wall bounded, shear flows of dense granular materials: the role of the Couette gap, the wall velocity and the initial concentration. <i>Journal of Fluid Mechanics</i> , 2016, 791, 384-413.	3.4	4
29	Numerical study of unsteady, thermally-stratified shear flows in superposed porous and pure-fluid domains. <i>International Journal of Heat and Mass Transfer</i> , 2016, 96, 643-659.	4.8	13
30	Large Eddy simulation of triboelectric charging in pneumatic powder transport. <i>Powder Technology</i> , 2016, 301, 1008-1015.	4.2	45
31	Evaluation of the parameters influencing electrostatic charging of powder in a pipe flow. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 43, 83-91.	3.3	35
32	Dynamics of shear layers at the interface of a highly porous medium and a pure fluid. <i>Physics of Fluids</i> , 2015, 27, .	4.0	16
33	Numerical simulation of subaqueous chute flows of granular materials. <i>European Physical Journal E</i> , 2015, 38, 125.	1.6	7
34	A thermo-mechanical model for flows in superposed porous and fluid layers with interphasial heat and mass exchange. <i>International Journal of Heat and Mass Transfer</i> , 2015, 88, 42-54.	4.8	13
35	Stability analysis of Couette flows of spatially inhomogeneous complex fluids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150529.	2.1	7
36	Statistical analysis of instantaneous turbulent heat transfer in circular pipe flows. <i>Heat and Mass Transfer</i> , 2014, 50, 125-137.	2.1	9

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37	Existence of solutions to a continuum model for hydrostatics of fluid-saturated granular materials. <i>Applied Mathematics Letters</i> , 2014, 35, 77-81.	2.7	5
38	A numerical method for two-phase flows of dense granular mixtures. <i>Journal of Computational Physics</i> , 2014, 257, 737-756.	3.8	14
39	Low-Mach-number asymptotics for two-phase flows of granular materials. <i>Journal of Fluid Mechanics</i> , 2011, 669, 472-497.	3.4	20
40	A conservative approximation to compressible two-phase flow models in the stiff mechanical relaxation limit. <i>Journal of Computational Physics</i> , 2008, 227, 9241-9270.	3.8	8
41	Hydrodynamical simulations of detonations in superbusts. <i>Computer Physics Communications</i> , 2008, 179, 190-193.	7.5	0
42	Numerical study of turbulent channel flow with strong temperature gradients. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2008, 18, 545-556.	2.8	32
43	An exact Riemann solver for compressible two-phase flow models containing non-conservative products. <i>Journal of Computational Physics</i> , 2007, 222, 217-245.	3.8	70
44	Computational study of three-dimensional gaseous detonation structures. <i>Combustion and Flame</i> , 2006, 144, 821-837.	5.2	53
45	Time-accurate calculation of variable density flows with strong temperature gradients and combustion. <i>Journal of Computational Physics</i> , 2006, 212, 218-246.	3.8	98
46	Influence of inert particles on the propagation of multidimensional detonation waves. <i>Combustion and Flame</i> , 2005, 141, 216-228.	5.2	27
47	A two-phase model for compressible granular flows based on the theory of irreversible processes. <i>Journal of Fluid Mechanics</i> , 2004, 517, 103-112.	3.4	29
48	Numerical simulation of detonations in mixtures of gases and solid particles. <i>Journal of Fluid Mechanics</i> , 2004, 507, 95-142.	3.4	63
49	A boundary integral equation method for oblique water-wave scattering by cylinders governed by the modified Helmholtz equation. <i>Applied Ocean Research</i> , 2002, 24, 215-233.	4.1	19
50	Nodal temperature estimation algorithms for nonlinear thermal network models. <i>AIAA Journal</i> , 2002, 40, 1451-1461.	2.6	2
51	Active control and parameter updating techniques for nonlinear thermal network models. <i>Computational Mechanics</i> , 2001, 27, 11-22.	4.0	4
52	A numerical study of wedge-induced detonations. <i>Combustion and Flame</i> , 2000, 120, 526-538.	5.2	92
53	Unsplit Schemes for Hyperbolic Conservation Laws with Source Terms in One Space Dimension. <i>Journal of Computational Physics</i> , 1997, 134, 31-61.	3.8	40