

Daniela Mansutti

List of Publications by Year in descending order

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34
papers

460
citations

840119

11
h-index

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37
all docs

37
docs citations

37
times ranked

335
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice Boltzmann Model for Anisotropic Liquid-Solid Phase Transition. <i>Physical Review Letters</i> , 2001, 86, 3578-3581.	2.9	147
2	Mesoscopic Models of Liquid/Solid Phase Transitions. <i>International Journal of Modern Physics C</i> , 1998, 09, 1405-1415.	0.8	57
3	Flow of a shear thinning fluid between intersecting planes. <i>International Journal of Non-Linear Mechanics</i> , 1991, 26, 769-775.	1.4	52
4	Steady flows of non-Newtonian fluids past a porous plate with suction or injection. <i>International Journal for Numerical Methods in Fluids</i> , 1993, 17, 927-941.	0.9	34
5	Numerical modelling of liquid/solid phase transitions. <i>Computers and Fluids</i> , 2002, 31, 437-451.	1.3	27
6	Title is missing!. <i>Journal of Scientific Computing</i> , 2004, 20, 115-136.	1.1	22
7	Horizontal thermocapillary convection of succinonitrile: Steady state, instabilities, and transition to chaos. <i>Physical Review E</i> , 2004, 69, 056319.	0.8	19
8	Horizontal thermal convection in a shallow cavity: oscillatory regimes and transition to chaos. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2000, 10, 179-195.	1.6	13
9	A discrete vector potential model for unsteady incompressible viscous flows. <i>Journal of Computational Physics</i> , 1991, 92, 161-184.	1.9	12
10	Non-similar flow of a non-newtonian fluid past a wedge. <i>International Journal of Engineering Science</i> , 1993, 31, 637-647.	2.7	12
11	Jefferey-Hamel flow of power-law fluids for exponent values close to the critical value. <i>International Journal of Non-Linear Mechanics</i> , 1991, 26, 761-767.	1.4	11
12	Numerical modeling of iron corrosion due to an acidic aqueous solution. <i>Applied Numerical Mathematics</i> , 2005, 55, 253-263.	1.2	8
13	Rayleigh-Marangoni horizontal convection of low Prandtl number fluids. <i>Physics of Fluids</i> , 2004, 16, 3269-3280.	1.6	7
14	Numerical modelling of the Marangoni effects induced by plankton-generated surfactants. <i>Journal of Marine Systems</i> , 2005, 57, 55-69.	0.9	7
15	On the importance of solid deformations in convection-dominated liquid/solid phase change of pure materials. <i>Applications of Mathematics</i> , 2011, 56, 117-136.	0.9	5
16	Coincidence of the linear and non-linear stability bounds in a horizontal thermal convection problem. <i>International Journal of Non-Linear Mechanics</i> , 1999, 34, 603-613.	1.4	4
17	ON THE INFLUENCE OF THE DEFORMATION OF THE FORMING SOLID IN THE SOLIDIFICATION OF A SEMI-INFINITE WATER LAYER OF FLUID. <i>Mathematical Models and Methods in Applied Sciences</i> , 2001, 11, 367-386.	1.7	4
18	Study of Europa's crust via a Stefan model with convection. <i>Mathematics and Computers in Simulation</i> , 2008, 79, 258-268.	2.4	3

#	ARTICLE	IF	CITATIONS
19	A discrete vector potential method for unsteady 3-D Navier-Stokes equations. , 1986, , 462-466.		2
20	Steady 3D Flow Configurations for the Horizontal Thermal Convection with Thermocapillary Effects. Journal of Scientific Computing, 1999, 14, 179-195.	1.1	2
21	A numerical estimate of the plankton-induced sea surface tension effects in a Langmuir circulation. Mathematics and Computers in Simulation, 2012, 82, 2916-2928.	2.4	2
22	Modeling and numerical sensitivity study on the conjecture of a subglacial lake at Amundsenisen, Svalbard. Applied Mathematical Modelling, 2015, 39, 4266-4284.	2.2	2
23	Numerical validation of the conjecture of a subglacial lake at Amundsenisen, Svalbard. Applied Mathematical Modelling, 2016, 40, 7615-7626.	2.2	2
24	A numerical algorithm for the assessment of the conjecture of a subglacial lake tested at Amundsenisen, Svalbard. Rendiconti Lincei, 2016, 27, 173-182.	1.0	2
25	Liquid/Solid Phase Change with Convection and Deformations: 2D Case. Mathematics in Industry, 2006, , 268-272.	0.1	2
26	Tuning of level-set speed function for speckled image segmentation. Pattern Analysis and Applications, 2016, 19, 1081-1092.	3.1	1
27	Rayleigh-Benard convection flow with liquid/solid phase transition in a low gravity field. , 2008, , .		1
28	Wake flow past a plate with spoiler II: Gravity effects. Zeitschrift Fur Angewandte Mathematik Und Physik, 1986, 37, 849-858.	0.7	0
29	A Lorenz-like model for the horizontal convection flow. International Journal of Non-Linear Mechanics, 2003, 38, 629-644.	1.4	0
30	Horizontal solidification of average and low Prandtl fluids in microgravity. Applied Numerical Mathematics, 2006, 56, 682-694.	1.2	0
31	Approach to Iron Corrosion via the Numerical Simulation of a Galvanic Cell. Advanced Materials Research, 0, 138, 127-136.	0.3	0
32	Computational corroboration of the flow of rock glaciers against borehole measurements. International Journal of Non-Linear Mechanics, 2021, 132, 103710.	1.4	0
33	Front-Fixing Modeling of Directional Solidification in Microgravity Conditions. Mathematics in Industry, 2002, , 197-203.	0.1	0
34	MARANGONI EFFECTS IN A HORIZONTAL SOLIDIFICATION PROCESS IN MICROGRAVITY. , 2003, , .		0