

Marcelo J S De Lemos

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143
papers

2,137
citations

28
h-index

42
g-index

193
ext. papers

2,464
ext. citations

3.4
avg, IF

5.49
L-index

#	Paper	IF	Citations
143	Macroscopic turbulence modeling for incompressible flow through undeformable porous media. <i>International Journal of Heat and Mass Transfer</i> , 2001 , 44, 1081-1093	4.9	223
142	On the definition of turbulent kinetic energy for flow in porous media. <i>International Communications in Heat and Mass Transfer</i> , 2000 , 27, 211-220	5.8	100
141	A Correlation for Interfacial Heat Transfer Coefficient for Turbulent Flow Over an Array of Square Rods. <i>Journal of Heat Transfer</i> , 2006 , 128, 444-452	1.8	77
140	Turbulent flow in a channel occupied by a porous layer considering the stress jump at the interface. <i>International Journal of Heat and Mass Transfer</i> , 2003 , 46, 5113-5121	4.9	73
139	Recent Mathematical Models for Turbulent Flow in Saturated Rigid Porous Media. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2001 , 123, 935-940	2.1	68
138	Interfacial heat transfer coefficient for non-equilibrium convective transport in porous media. <i>International Communications in Heat and Mass Transfer</i> , 2005 , 32, 666-676	5.8	62
137	COMPUTATION OF TURBULENT FLOW IN POROUS MEDIA USING A LOW-REYNOLDS $k-\epsilon$ MODEL AND AN INFINITE ARRAY OF TRANSVERSALLY DISPLACED ELLIPTIC RODS. <i>Numerical Heat Transfer; Part A: Applications</i> , 2003 , 43, 585-602	2.3	58
136	Laminar natural convection in cavities filled with circular and square rods. <i>International Communications in Heat and Mass Transfer</i> , 2005 , 32, 1289-1297	5.8	58
135	On the Mathematical Description and Simulation of Turbulent Flow in a Porous Medium Formed by an Array of Elliptic Rods. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2001 , 123, 941-947	2.1	58
134	SIMULATION OF TURBULENT FLOW IN POROUS MEDIA USING A SPATIALLY PERIODIC ARRAY AND A LOW RE TWO-EQUATION CLOSURE. <i>Numerical Heat Transfer; Part A: Applications</i> , 2001 , 39, 35-59	2.3	57
133	Heat transfer in enclosures having a fixed amount of solid material simulated with heterogeneous and homogeneous models. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 4748-4765	4.9	54
132	Turbulent natural convection in a porous square cavity computed with a macroscopic ϵ model. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 5639-5650	4.9	52
131	Flow and Heat Transfer in a Parallel-Plate Channel with Porous and Solid Baffles. <i>Numerical Heat Transfer; Part A: Applications</i> , 2006 , 49, 471-494	2.3	51
130	NUMERICAL ANALYSIS OF THE STRESS JUMP INTERFACE CONDITION FOR LAMINAR FLOW OVER A POROUS LAYER. <i>Numerical Heat Transfer; Part A: Applications</i> , 2003 , 43, 603-617	2.3	49
129	Turbulent kinetic energy distribution across the interface between a porous medium and a clear region. <i>International Communications in Heat and Mass Transfer</i> , 2005 , 32, 107-115	5.8	49
128	Turbulent flow over a layer of a highly permeable medium simulated with a diffusion-jump model for the interface. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 546-556	4.9	46
127	Analysis of convective heat transfer for turbulent flow in saturated porous media. <i>International Communications in Heat and Mass Transfer</i> , 2000 , 27, 825-834	5.8	44

126	Thermal Analysis of an Impinging Jet on a Plate With and Without a Porous Layer. <i>Numerical Heat Transfer; Part A: Applications</i> , 2008 , 54, 1022-1041	2.3	42
125	Thermal dispersion in porous media as a function of the solidfluid conductivity ratio. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 5359-5367	4.9	38
124	Numerical Solution of Turbulent Channel Flow Past a Backward-Facing Step with a Porous Insert Using Linear and Nonlinear k- ϵ Models. <i>Journal of Porous Media</i> , 2005 , 8, 13-30	2.9	37
123	A macroscopic two-energy equation model for turbulent flow and heat transfer in highly porous media. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 2424-2433	4.9	35
122	TURBULENT MASS TRANSPORT IN SATURATED RIGID POROUS MEDIA. <i>International Communications in Heat and Mass Transfer</i> , 2003 , 30, 105-113	5.8	35
121	Simulation of laminar impinging jet on a porous medium with a thermal non-equilibrium model. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 5089-5101	4.9	34
120	Laminar Confined Impinging Jet into a Porous Layer. <i>Numerical Heat Transfer; Part A: Applications</i> , 2008 , 54, 151-177	2.3	32
119	Modeling of turbulent natural convection in porous media. <i>International Communications in Heat and Mass Transfer</i> , 2003 , 30, 615-624	5.8	31
118	Simulation of turbulent natural convection in a porous cylindrical annulus using a macroscopic two-equation model. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 4340-4351	4.9	30
117	Numerical simulation of turbulent combustion in porous materials. <i>International Communications in Heat and Mass Transfer</i> , 2009 , 36, 996-1001	5.8	28
116	Modeling of double-diffusive turbulent natural convection in porous media. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 4233-4241	4.9	28
115	2008,		27
114	Laminar flow with combustion in inert porous media. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 896-903	5.8	23
113	Double-diffusive turbulent natural convection in a porous square cavity with opposing temperature and concentration gradients. <i>International Communications in Heat and Mass Transfer</i> , 2009 , 36, 991-995	5.8	23
112	Turbulent Flow in Wavy Channels Simulated with Nonlinear Models and a New Implicit Formulation. <i>Numerical Heat Transfer; Part A: Applications</i> , 2009 , 56, 301-324	2.3	22
111	Optimal multigrid solutions of two-dimensional convection-conduction problems. <i>Applied Mathematics and Computation</i> , 2004 , 152, 725-742	2.7	20
110	Simulation of turbulent impinging jet into a cylindrical chamber with and without a porous layer at the bottom. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 680-693	4.9	17
109	Laminar and turbulent free convection in a composite enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 588-596	4.9	16

108	Simulation of a Turbulent Impinging Jet into a Layer of Porous Material Using a Two-Energy Equation Model. <i>Numerical Heat Transfer; Part A: Applications</i> , 2011 , 59, 769-798	2.3	15
107	Laminar heat transfer in a moving porous bed reactor simulated with a macroscopic two-energy equation model. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 1922-1930	4.9	13
106	Turbulent Flow Around Fluid-Porous Interfaces Computed with a Diffusion-Jump Model for k and ϵ Transport Equations. <i>Transport in Porous Media</i> , 2009 , 78, 331-346	3.1	13
105	Computation of turbulent heat transfer in a moving porous bed using a macroscopic two-energy equation model. <i>International Communications in Heat and Mass Transfer</i> , 2008 , 35, 1262-1266	5.8	13
104	Analysis of turbulent double-diffusive free convection in porous media using the two-energy equation model. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 52, 132-139	5.8	12
103	Computation of turbulent free convection in left and right tilted porous enclosures using a macroscopic $k\epsilon$ model. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 5279-5287	4.9	12
102	Analysis of turbulent flows in fixed and moving permeable media. <i>Acta Geophysica</i> , 2008 , 56, 562-583	2.2	12
101	Turbulent Heat Transfer in an Enclosure With a Horizontal Permeable Plate in the Middle. <i>Journal of Heat Transfer</i> , 2006 , 128, 1122-1129	1.8	12
100	Fundamentals of the double ϵ -decomposition concept for turbulent transport in permeable media. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2005 , 36, 586-593	0.9	12
99	Turbulence modeling in combined convection in mercury pipe flow. <i>International Journal of Heat and Mass Transfer</i> , 1985 , 28, 1067-1088	4.9	12
98	Turbulent transport modeling for heated flow in rigid porous media 2002 ,		12
97	Laminar heat transfer in a porous channel simulated with a two-energy equation model. <i>International Communications in Heat and Mass Transfer</i> , 2009 , 36, 1002-1007	5.8	11
96	Analysis of turbulent combustion in inert porous media. <i>International Communications in Heat and Mass Transfer</i> , 2010 , 37, 331-336	5.8	11
95	Moving Porous Media 2012 , 133-140		10
94	Turbulent flow in a composite channel. <i>International Communications in Heat and Mass Transfer</i> , 2011 , 38, 1019-1023	5.8	10
93	A Turbulent Impinging Jet on a Plate Covered with a Porous Layer. <i>Numerical Heat Transfer; Part A: Applications</i> , 2010 , 58, 429-456	2.3	10
92	FLOW AND HEAT TRANSFER IN RECTANGULAR ENCLOSURES USING A NEW BLOCK-IMPLICIT NUMERICAL METHOD. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2000 , 37, 489-508	1.3	10
91	Turbulent heat transfer past a sudden expansion with a porous insert using a nonlinear model. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 71, 290-310	2.3	9

90	Effect of porous material properties on thermal efficiencies of a thermocline storage tank. <i>Applied Thermal Engineering</i> , 2020 , 173, 115194	5.8	9
89	Turbulent free convection in a porous square cavity using the thermal equilibrium model. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 49, 10-16	5.8	9
88	Turbulent flow in porous combustor using the thermal non-equilibrium hypothesis and radiation boundary condition. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 1043-1054	4.9	9
87	Optimization of convergence acceleration in multigrid numerical solutions of conductive-convective problems. <i>Applied Mathematics and Computation</i> , 2001 , 124, 215-226	2.7	9
86	Transient performance of a thermocline energy storage system using the two-energy equation model. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 150, 119323	4.9	8
85	A thermal study of a new oil well plugging & abandonment operation. <i>International Journal of Thermal Sciences</i> , 2020 , 155, 106421	4.1	8
84	Turbulent free convection in a porous cavity using the two-temperature model and the high Reynolds closure. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 79, 105-115	4.9	8
83	Thermal performance of a solar volumetric receiver using the two-energy equation model and radiation boundary condition. <i>International Communications in Heat and Mass Transfer</i> , 2019 , 104, 101-108	5.8	7
82	Passive Laminar Heat Transfer Across Porous Cavities Using the Thermal Non-Equilibrium Model. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 66, 1173-1194	2.3	7
81	Temperature Distribution in a Counterflow Moving Bed Under a Thermal Nonequilibrium Condition. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012 , 61, 1-17	2.3	7
80	Detailed Numerical Modeling and Simulation of Fe ₂ O ₃ /Al Thermite Reaction. <i>Propellants, Explosives, Pyrotechnics</i> , 2021 , 46, 806-824	1.7	7
79	Single-point transition modeling using the laminar kinetic energy concept. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 1095-1109	4.9	6
78	Use of porous-continuum and continuum models for determining the permeability of porous cavities under turbulent free convection. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018 , 73, 78-93	1.3	6
77	Mathematical modeling and numerical results of power-law fluid flow over a finite porous medium. <i>International Journal of Thermal Sciences</i> , 2016 , 100, 126-137	4.1	6
76	Turbulence modeling in a parallel flow moving porous bed. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 48, 1-7	5.8	6
75	Turbulent kinetic energy in a moving porous bed. <i>International Communications in Heat and Mass Transfer</i> , 2008 , 35, 1049-1052	5.8	6
74	A new hybrid analytical/numerical method for transient heat conduction in composite hollow cylinders applied to plug and abandonment of oil wells. <i>International Journal of Thermal Sciences</i> , 2021 , 168, 106981	4.1	6
73	NUMERICAL SIMULATION OF TURBULENT FLOW IN SMALL-ANGLE DIFFUSERS AND CONTRACTIONS USING A NEW WALL TREATMENT AND A LINEAR HIGH REYNOLDS k _ε MODEL. <i>Numerical Heat Transfer; Part A: Applications</i> , 2004 , 45, 911-933	2.3	5

72	Numerical Treatment of the Stress Jump Interface Condition for Laminar Flow in a Channel Partially Filled With a Porous Material 2002 , 715		5
71	Filtration Gas Combustion in a Porous Ceramic Annular Burner for Thermoelectric Power Conversion. <i>Heat Transfer Engineering</i> , 2019 , 40, 1196-1210	1.7	5
70	Double-diffusive laminar free convection in a porous cavity simulated with the two-energy equation model. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 82, 89-96	5.8	4
69	Effect of Thermal Conductivity Ratio on Laminar Double-Diffusive Free Convection in a Porous Cavity. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	4
68	Turbulent heat transfer in a counterflow moving porous bed using a two-energy equation model. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 72, 98-113	4.9	4
67	Numerical simulation of a crossflow moving porous bed using a thermal non-equilibrium model. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 311-325	4.9	4
66	THE DOUBLE-DECOMPOSITION CONCEPT FOR TURBULENT TRANSPORT IN POROUS MEDIA 2005 , 1-33		4
65	The effects of Peclet number and cycling strategy on multigrid numerical solutions of conductive-convective problems 1998 ,		4
64	Radiant and convective heat transfer for flow of a transparent gas in a short tube with sinusoidal wall heat flux. <i>International Communications in Heat and Mass Transfer</i> , 1985 , 12, 505-520	5.8	4
63	Transient behavior and thermal efficiency of volumetric heat receivers. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 149, 119128	4.9	4
62	Turbulent natural convection in a composite annulus using a novel numerical scheme and the thermal nonequilibrium hypothesis. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 71, 837-854	2.3	3
61	Turbulent flow with combustion in a moving bed. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 1-7	5.8	3
60	A block-implicit numerical procedure for simulation of buoyant swirling flows in a model furnace. <i>International Journal for Numerical Methods in Fluids</i> , 2003 , 43, 281-299	1.9	3
59	A BLOCK-IMPLICIT METHOD FOR NUMERICAL SIMULATION OF SWIRLING FLOWS IN A MODEL COMBUSTOR. <i>International Communications in Heat and Mass Transfer</i> , 2003 , 30, 369-378	5.8	3
58	Turbulent Heat and Mass Transfer in Porous Media 2004 , 157-168		3
57	Turbulent flow and heat transfer in a partially filled ventilated cavity using the local thermal non-equilibrium method. <i>International Journal of Thermal Sciences</i> , 2021 , 164, 106844	4.1	3
56	THERMAL EFFICIENCY OF SOLAR VOLUMETRIC RECEIVERS USING CONSTANT AND VARIABLE FLUID PROPERTIES. <i>International Journal of Energy for A Clean Environment</i> , 2021 , 22, 95-111	1.5	3
55	Unsteady heat conduction with phase change applied to a novel thermal plug and abandonment process. <i>International Journal of Thermal Sciences</i> , 2021 , 170, 107155	4.1	3

54	Modified Lewis Number and Buoyancy Ratio Effects on Turbulent Double-Diffusive Convection in Porous Media Using the Thermal Nonequilibrium Model. <i>Journal of Heat Transfer</i> , 2019 , 141,	1.8	2
53	A novel implicit numerical treatment for non-linear turbulence models using high and low Reynolds number formulations. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 66, 1475-1494	1.9	2
52	Heat-Transfer Coefficient for Cellular Materials Modelled as an Array of Elliptic Rods. <i>Advanced Engineering Materials</i> , 2009 , 11, 837-842	3.5	2
51	Turbulent Flow Around a Wavy Interface Between a Porous Medium and a Clear Domain 2003 , 1509		2
50	Modeling Turbulence in Permeable Media: The Double-Decomposition Concept Revisited 2022 , 4, 124-131		2
49	Thermodynamics of thermite reactions for a new thermal plug and abandonment process. <i>Continuum Mechanics and Thermodynamics</i> , 1	3.5	2
48	Role of porosity and solid-to-fluid thermal conductivity ratio on turbulent combined heat and mass transfer in a porous cavity. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 132, 221-237	4.9	2
47	FRICITION FACTOR FOR DUCTS OF SINUSOIDAL WALLS WITH A LAYER OF POROUS MATERIAL. <i>International Journal of Energy for A Clean Environment</i> , 2021 , 22, 51-63	1.5	2
46	A new numerical scheme for using the two-energy equation model for turbulent buoyant flow in a composite enclosure. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018 , 74, 578-602	1.3	2
45	STRATIFICATION AND ENERGY LOSSES IN A STANDBY CYCLE OF A THERMAL ENERGY STORAGE SYSTEM. <i>International Journal of Energy for A Clean Environment</i> , 2021 , 22, 1-32	1.5	2
44	Spatial Averaging over a Variable Volume and Its Application to Boundary-Layer Flows over Permeable Walls. <i>Journal of Hydraulic Engineering</i> , 2015 , 141, 04014087	1.8	1
43	Applications in Hybrid Media 2012 , 199-352		1
42	Governing Equations 2012 , 19-26		1
41	Simulation of Turbulent Combustion in Porous Materials with One- and Two-Energy Equation Models. <i>Advanced Structured Materials</i> , 2010 , 443-460	0.6	1
40	Laminar Heat Transfer in a Parallel Plate Channel With Solid and Porous Baffles 2004 , 117		1
39	Simulation of Turbulent Flow in a Channel Partially Occupied by a Porous Layer Considering the Stress Jump at the Interface 2002 , 639		1
38	Multigrid correction-storage formulation applied to the numerical solution of incompressible laminar recirculating flows. <i>Applied Mathematical Modelling</i> , 2003 , 27, 717-732	4.5	1
37	Heat Transfer in Cavities Having a Fixed Amount of Solid Material 2005 , 311		1

36	Natural Convection in Turbulent Regime in Concentric and Eccentric Horizontal Annular Regions 2002 ,		1
35	A coupled surface-subsurface model of overbank flood flow and air entrapment in a permeable floodplain 2014 , 591-596		1
34	Filtration efficiency of particle-laden flows for thermal plug and abandonment of oil wells using turbulence modeling in porous media. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 135, 106108	5.8	1
33	Turbulent Natural Convection in Horizontal Composite Cavities 2003 , 113		0
32	Pressure Drop Characteristics of Parallel-Plate Channel Flow With Porous Obstructions at Both Walls 2003 , 291		0
31	Turbulent Impinging Jet Into a Confined Porous Layer 2005 , 673		0
30	Turbulent Heat Transfer in Channels With Solid and Porous Baffles 2005 , 609		0
29	Heat Transfer in a Suddenly Expanded Turbulent Flow Past a Porous Insert Using Linear and Non-Linear Eddy-Viscosity Models 2002 , 145		0
28	Heterogeneous Media. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 1-7	0.4	0
27	Discharge effectiveness of thermal energy storage systems. <i>Applied Thermal Engineering</i> , 2022 , 209, 118232	5.8	0
26	Turbulence structure and heat transfer in a sudden expansion with a porous insert using linear and non-linear turbulence models. <i>International Journal of Thermal Sciences</i> , 2019 , 141, 1-13	4.1	
25	Modeling of Thermal Non-equilibrium. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 9-41	0.4	
24	Double averaging methodology and double-decomposition: description of intermediate scales between a fluid particle and a catchment. <i>Hydrological Processes</i> , 2014 , 28, 3356-3360	3.3	
23	A Thermo-Mechanical Model for a Counterflow Biomass Gasifier. <i>Defect and Diffusion Forum</i> , 2014 , 354, 227-235	0.7	
22	Turbulent Mass Transport 2012 , 91-111		
21	Turbulent Double Diffusion 2012 , 113-120		
20	Turbulent Combustion 2012 , 121-132		
19	Turbulent Momentum Transport 2012 , 33-53		

18	Comparison of Four Thermo-Mechanical Models for Simulating Reactive Flow in Porous Materials. <i>Defect and Diffusion Forum</i> , 2010 , 297-301, 1493-1501	0.7
17	Numerical Modeling and Algorithms 2012 , 143-198	
16	Interfacial Heat Transport in Highly Permeable Media: A Finite Volume Approach 1-30	
15	Computation of Turbulent Free Convection in Oblique Porous Enclosures Using a Macroscopic Two-Equation Model 2007 , 1499	
14	Turbulent Free Convection in a Composite Enclosure 2003 , 749	
13	Computation of Turbulent Free Convection in Oblique Porous Enclosures Using a Macroscopic Two-Equation Model 2004 , 241	
12	Turbulent Heat Transfer in a Backward-Facing Step Flow Using a Non-Linear k- ϵ Model 2002 , 315	
11	Laminar Free Convection in Inclined Enclosures Filled With a Fluid Saturated Porous Medium 2004 , 569	
10	Turbulent Natural Convection in Enclosures With Clear Fluid and Completely Filled With Porous Material 2002 , 155	
9	Double Diffusion. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 89-105	0.4
8	Combustion Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 69-88	0.4
7	Moving Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 43-68	0.4
6	Heat Transfer Using the Local Thermal Non-Equilibrium Model. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 55-73	0.4
5	Heat Transfer Using the Local Thermal Equilibrium Model. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 37-53	0.4
4	Flow Structure of Impinging Jets. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 21-35	0.4
3	The Double-Decomposition Concept 2012 , 27-32	
2	Concluding Remarks and Future Work. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 75-76	0.4
1	Mathematical Modeling of Turbulence in Porous Media. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 7-19	0.4

