Joaquin Zueco

List of Publications by Year
in descending order

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		394421	434195
61	1,118	19	31
papers	citations	h-index	g-index

61	61	61	490
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydromagnetic free convection flow with induced magnetic field effects. Meccanica, 2010, 45, 175-185.	2.0	72
2	Unsteady magnetohydrodynamic Hartmannâ€“Couette flow and heat transfer in a Darcian channel with Hall current, ionslip, viscous and Joule heating effects: Network numerical solutions. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1082-1097.	3.3	71
3	Network numerical analysis of hydromagnetic squeeze film flow dynamics between two parallel rotating disks with induced magnetic field effects. Tribology International, 2010, 43, 532-543.	5.9	55
4	Finite element study of nonlinear two-dimensional deoxygenated biomagnetic micropolar flow. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1210-1223.	3.3	53
5	Thermophoretic hydromagnetic dissipative heat and mass transfer with lateral mass flux, heat source, Ohmic heating and thermal conductivity effects: Network simulation numerical study. Applied Thermal Engineering, 2009, 29, 2808-2815.	6.0	49
6	Laminar free convection from a continuously-moving vertical surface in thermally-stratified non-Darcian high-porosity medium: Network numerical study. International Communications in Heat and Mass Transfer, 2008, 35, 810-816.	5.6	48
7	Numerical study of magnetohydrodynamic viscous plasma flow in rotating porous media with Hall currents and inclined magnetic field influence. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 345-359.	3.3	48
8	Magnetohydrodynamic convection flow from a sphere to a non-Darcian porous medium with heat generation or absorption effects: network simulation. International Journal of Thermal Sciences, 2009, 48, 913-921.	4.9	45
9	Transient Couette flow in a rotating non-Darcian porous medium parallel plate configuration: network simulation method solutions. Acta Mechanica, 2008, 200, 129-144.	2.1	42
10	Network and Nakamura tridiagonal computational simulation of electrically-conducting biopolymer micro-morphic transport phenomena. Computers in Biology and Medicine, 2014, 44, 44-56.	7.0	37
11	Effects of chemical reaction, heat and mass transfer and viscous dissipation over a MHD flow in a vertical porous wall using perturbation method. International Journal of Heat and Mass Transfer, 2017, 104, 409-418.	4.8	34
12	Numerical Study of Chemically Reactive Buoyancy-Driven Heat and Mass Transfer across a Horizontal Cylinder in a High-Porosity Non-Darcian Regime. Journal of Porous Media, 2009, 12, 519-535.	1.9	32
13	Transient hydromagnetic flow in a rotating channel permeated by an inclined magnetic field with magnetic induction and Maxwell displacement current effects. Zeitschrift Fur Angewandte Mathematik Und Physik, 2010, 61, 147-169.	1.4	31
14	NSM analysis of time-dependent nonlinear buoyancy-driven double-diffusive radiative convection flow in non-Darcy geological porous media. Acta Mechanica, 2009, 202, 181-204.	2.1	29
15	Network numerical analysis of magneto-micropolar convection through a vertical circular non-Darcian porous medium conduit. Computational Materials Science, 2009, 46, 1028-1037.	3.0	29
16	UNSTEADY HYDROMAGNETIC NATURAL CONVECTION OF A SHORT-MEMORY VISCOELASTIC FLUID IN A NON-DARCIAN REGIME: NETWORK SIMULATION. Chemical Engineering Communications, 2010, 198, 172-190.	2.6	28
17	MODELING OF HEAT AND MASS TRANSFER IN A ROTATING VERTICAL POROUS CHANNEL WITH HALL CURRENT. Chemical Engineering Communications, 2011, 198, 1294-1308.	2.6	28
18	NETWORK NUMERICAL ANALYSIS OF OPTICALLY THICK HYDROMAGNETIC SLIP FLOW FROM A POROUS SPINNING DISK WITH RADIATION FLUX, VARIABLE THERMOPHYSICAL PROPERTIES, AND SURFACE INJECTION EFFECTS. Chemical Engineering Communications, 2010, 198, 360-384.	2.6	25

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19	Exergy analysis of a steam-turbine power plant using thermocombustion. Applied Thermal Engineering, 2020, 180, 115812.	6.0	22
20	Network simulation solutions for laminar radiating dissipative magneto-gas dynamic heat transfer over a wedge in non-Darcian porous regime. Mathematical and Computer Modelling, 2009, 50, 439-452.	2.0	19
21	NUMERICAL ANALYSIS OF HYDROMAGNETIC GRAVITY-DRIVEN THIN FILM MICROPOLAR FLOW ALONG AN INCLINED PLANE. Chemical Engineering Communications, 2010, 198, 312-331.	2.6	19
22	Application of a lumped model to solids with linearly temperature-dependent thermal conductivity. Applied Mathematical Modelling, 2007, 31, 302-310.	4.2	17
23	Transient nonlinear optically-thick radiativeâ€“convective double-diffusive boundary layers in a Darcian porous medium adjacent to an impulsively started surface: Network simulation solutions. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 3856-3866.	3.3	17
24	2-D unsteady free convective heat and mass transfer Newtonian Hartmann flow with thermal diffusion and Soret effects: Network model and finite differences. International Journal of Heat and Mass Transfer, 2017, 110, 467-475.	4.8	17
25	Numerical solution of the heat conduction equation with the electro-thermal analogy and the code PSPICE. Applied Mathematics and Computation, 2005, 162, 103-113.	2.2	15
26	NUMERICAL MODELING OF MHD CONVECTIVE HEAT AND MASS TRANSFER IN PRESENCE OF FIRST-ORDER CHEMICAL REACTION AND THERMAL RADIATION. Chemical Engineering Communications, 2014, 201, 419-436.	2.6	15
27	Unsteady MHD free convection of a micropolar fluid between two parallel porous vertical walls with convection from the ambient. International Communications in Heat and Mass Transfer, 2009, 36, 203-209.	5.6	14
28	NETWORK NUMERICAL SIMULATION OF HYDROMAGNETIC MARANGONI MIXED CONVECTION BOUNDARY LAYERS. Chemical Engineering Communications, 2010, 198, 552-571.	2.6	14
29	Unsteady Free Convection and Mass Transfer Flow with Temperature-Dependent Properties, Using the Electronic Network Simulation Program Spice. Numerical Heat Transfer; Part A: Applications, 2008, 53, 925-944.	2.1	13
30	An electrical network for the numerical solution of transient mhd couette flow of a dusty fluid: Effects of variable properties and hall current. International Communications in Heat and Mass Transfer, 2010, 37, 1432-1439.	5.6	12
31	Network simulation method applied to models of diffusion-limited gas bubble dynamics in tissue. Acta Astronautica, 2010, 67, 344-352.	3.2	12
32	Non-linear transient hydromagnetic partially ionised dissipative Couette flow in a non-Darcian porous medium channel with Hall, ionslip and Joule heating effects. Progress in Computational Fluid Dynamics, 2011, 11, 116.	0.2	12
33	Unsteady free convection-radiation flow over a vertical wall embedded in a porous medium. Communications in Numerical Methods in Engineering, 2007, 24, 1093-1105.	1.3	11
34	Network numerical analysis of radiation absorption and chemical effects on unsteady MHD free convection through a porous medium. International Journal of Heat and Mass Transfer, 2013, 64, 375-383.	4.8	11
35	Transient free convection with mass transfer MHD micropolar fluid in a porous plate by the network method. International Journal for Numerical Methods in Fluids, 2008, 57, 861-876.	1.6	10
36	Numerical and analytical solutions for magneto-hydrodynamic 3D flow through two parallel porous plates. International Journal of Heat and Mass Transfer, 2017, 108, 322-331.	4.8	10

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37	Effects of thermophoresis particle deposition and of the thermal conductivity in a porous plate with dissipative heat and mass transfer. Acta Mechanica Sinica/Lixue Xuebao, 2011, 27, 389-398.	3.4	9
38	Educational Software to Study Alternative Internal Combustion Engine Cycles. International Journal of Mechanical Engineering Education, 2011, 39, 101-113.	1.0	8
39	An educational laboratory virtual EES for encouraging the use of computer programming in thermal engineering problems. Computer Applications in Engineering Education, 2013, 21, 691-697.	3.4	8
40	Network numerical simulation of two-dimensional nonlinear micropolar hydrodynamics in a Darcian porous medium. Korean Journal of Chemical Engineering, 2009, 26, 1226-1234.	2.7	7
41	Network modelling of unsteady natural convection flow over a vertical plate submitted to surface temperature oscillation. International Journal of Numerical Methods for Heat and Fluid Flow, 2009, 19, 285-302.	2.8	7
42	UNSTEADY BUOYANCY-DRIVEN THERMAL CONVECTION IN A NON-DARCIAN POROUS MEDIUM VERTICAL CHANNEL WITH ASYMMETRIC HEATING/COOLING. Journal of Porous Media, 2011, 14, 73-79.	1.9	7
43	Erratum to â€œNetwork simulation method applied to radiation and viscous dissipation effects on MHD unsteady free convection over vertical porous plateâ€•[Appl. Math. Model. 31 (9) (2007) 2019â€“2033]. Applied Mathematical Modelling, 2007, 31, 2754.	4.2	6
44	A network thermodynamic method for the numerical solution of Burgersâ€™ equation. Mathematical and Computer Modelling, 2008, 47, 401-410.	2.0	6
45	Numerical solutions for unsteady rotating high-porosity medium channel Couette hydrodynamics. Physica Scripta, 2009, 80, 035001.	2.5	6
46	Unsteady conjugate problem of a dissipative fluid in a horizontal channel with a periodic variation temperature. Meccanica, 2008, 43, 37-46.	2.0	5
47	An electric simulator to solve education engineering problems in fluid mechanics. Computer Applications in Engineering Education, 2013, 21, 748-757.	3.4	5
48	Magneto-Micropolar Flow Over a Stretching Surface Embedded in a Darcian Porous Medium by the Numerical Network Method. Arabian Journal for Science and Engineering, 2014, 39, 5141-5151.	1.1	5
49	Electric analogue for the dynamics of decompression sickness bubbles: Numerical results. Acta Astronautica, 2010, 66, 59-69.	3.2	4
50	Network modeling to study the unsteady unidirectional flows of a non-Newtonian fluid problem. Mathematical and Computer Modelling, 2011, 54, 2839-2847.	2.0	4
51	Network numerical simulation of coupled heat and moisture transfer in capillary porous media. International Communications in Heat and Mass Transfer, 2013, 44, 1-6.	5.6	3
52	Numerical analysis of unsteady laminar hydromagnetic mixed convection flow in a vertical channel. International Communications in Heat and Mass Transfer, 2013, 45, 16-22.	5.6	3
53	Network model to study physiological processes of hypobaric decompression sickness: New numerical results. Acta Astronautica, 2016, 121, 256-270.	3.2	3
54	Network Method to Study Magnetohydrodynamic Flow and Heat Transfer about Rotating Disk. Engineering Applications of Computational Fluid Mechanics, 2012, 6, 336-345.	3.1	2

#	Article	IF	Citations
55	Numerical Determination of the Temperature Dependent Thermophysical Properties in Solid Materials: Experimental Instrumentation. , 2010, , .		1
56	EFFECTS OF HEAT GENERATION-ABSORPTION AND CHEMICAL REACTION ON MAGNETOHYDRODYNAMIC FLOW IN A PERMEABLE MOVING PLATE: NETWORK NUMERICAL STUDY. Chemical Engineering Communications, 2012, 199, 1205-1224.	2.6	1
57	Network Electro-thermal Simulation of Non-isothermal Magnetohydrodynamic Heat Transfer from a Transpiring Cone with Buoyancy and Pressure Work. International Journal of Applied and Computational Mathematics, 2017, 3, 1525-1547.	1.6	1
58	Exergy analysis of a shell and tube heat exchanger using DETHE software. International Journal of Exergy, 2020, 33, 198.	0.4	1
59	Network numerical modelling of unsteady MHDâ€free convection flow with mass transfer, hall current and viscous dissipation effects. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 1687-1699.	2.1	0
60	Combined Heat and Mass Transfer by Natural Convection from a Semi-Infinite Plate Submitted to a Magnetic Field with Hall Currents. Engineering Applications of Computational Fluid Mechanics, 2011, 5, 188-200.	3.1	0
61	10.2478/s11814-009-0213-8. , 2011, 26, 1226.		0