

Joaquin Zueco

List of Publications by Year in descending order

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61
papers

1,118
citations

394421

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61
all docs

61
docs citations

61
times ranked

490
citing authors

#	ARTICLE	IF	CITATIONS
1	Exergy analysis of a shell and tube heat exchanger using DETHE software. <i>International Journal of Exergy</i> , 2020, 33, 198.	0.4	1
2	Exergy analysis of a steam-turbine power plant using thermocombustion. <i>Applied Thermal Engineering</i> , 2020, 180, 115812.	6.0	22
3	2-D unsteady free convective heat and mass transfer Newtonian Hartmann flow with thermal diffusion and Soret effects: Network model and finite differences. <i>International Journal of Heat and Mass Transfer</i> , 2017, 110, 467-475.	4.8	17
4	Numerical and analytical solutions for magneto-hydrodynamic 3D flow through two parallel porous plates. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 322-331.	4.8	10
5	Network Electro-thermal Simulation of Non-isothermal Magnetohydrodynamic Heat Transfer from a Transpiring Cone with Buoyancy and Pressure Work. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 1525-1547.	1.6	1
6	Effects of chemical reaction, heat and mass transfer and viscous dissipation over a MHD flow in a vertical porous wall using perturbation method. <i>International Journal of Heat and Mass Transfer</i> , 2017, 104, 409-418.	4.8	34
7	Network model to study physiological processes of hypobaric decompression sickness: New numerical results. <i>Acta Astronautica</i> , 2016, 121, 256-270.	3.2	3
8	NUMERICAL MODELING OF MHD CONVECTIVE HEAT AND MASS TRANSFER IN PRESENCE OF FIRST-ORDER CHEMICAL REACTION AND THERMAL RADIATION. <i>Chemical Engineering Communications</i> , 2014, 201, 419-436.	2.6	15
9	Network and Nakamura tridiagonal computational simulation of electrically-conducting biopolymer micro-morphic transport phenomena. <i>Computers in Biology and Medicine</i> , 2014, 44, 44-56.	7.0	37
10	Magneto-Micropolar Flow Over a Stretching Surface Embedded in a Darcian Porous Medium by the Numerical Network Method. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 5141-5151.	1.1	5
11	An educational laboratory virtual EES for encouraging the use of computer programming in thermal engineering problems. <i>Computer Applications in Engineering Education</i> , 2013, 21, 691-697.	3.4	8
12	An electric simulator to solve education engineering problems in fluid mechanics. <i>Computer Applications in Engineering Education</i> , 2013, 21, 748-757.	3.4	5
13	Network numerical simulation of coupled heat and moisture transfer in capillary porous media. <i>International Communications in Heat and Mass Transfer</i> , 2013, 44, 1-6.	5.6	3
14	Network numerical analysis of radiation absorption and chemical effects on unsteady MHD free convection through a porous medium. <i>International Journal of Heat and Mass Transfer</i> , 2013, 64, 375-383.	4.8	11
15	Numerical analysis of unsteady laminar hydromagnetic mixed convection flow in a vertical channel. <i>International Communications in Heat and Mass Transfer</i> , 2013, 45, 16-22.	5.6	3
16	EFFECTS OF HEAT GENERATION-ABSORPTION AND CHEMICAL REACTION ON MAGNETOHYDRODYNAMIC FLOW IN A PERMEABLE MOVING PLATE: NETWORK NUMERICAL STUDY. <i>Chemical Engineering Communications</i> , 2012, 199, 1205-1224.	2.6	1
17	Network Method to Study Magnetohydrodynamic Flow and Heat Transfer about Rotating Disk. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2012, 6, 336-345.	3.1	2
18	MODELING OF HEAT AND MASS TRANSFER IN A ROTATING VERTICAL POROUS CHANNEL WITH HALL CURRENT. <i>Chemical Engineering Communications</i> , 2011, 198, 1294-1308.	2.6	28

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19	Combined Heat and Mass Transfer by Natural Convection from a Semi-Infinite Plate Submitted to a Magnetic Field with Hall Currents. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2011, 5, 188-200.	3.1	0
20	Non-linear transient hydromagnetic partially ionised dissipative Couette flow in a non-Darcian porous medium channel with Hall, ionslip and Joule heating effects. <i>Progress in Computational Fluid Dynamics</i> , 2011, 11, 116.	0.2	12
21	Network modeling to study the unsteady unidirectional flows of a non-Newtonian fluid problem. <i>Mathematical and Computer Modelling</i> , 2011, 54, 2839-2847.	2.0	4
22	Effects of thermophoresis particle deposition and of the thermal conductivity in a porous plate with dissipative heat and mass transfer. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2011, 27, 389-398.	3.4	9
23	Educational Software to Study Alternative Internal Combustion Engine Cycles. <i>International Journal of Mechanical Engineering Education</i> , 2011, 39, 101-113.	1.0	8
24	UNSTEADY BUOYANCY-DRIVEN THERMAL CONVECTION IN A NON-DARCIAN POROUS MEDIUM VERTICAL CHANNEL WITH ASYMMETRIC HEATING/COOLING. <i>Journal of Porous Media</i> , 2011, 14, 73-79.	1.9	7
25	10.2478/s11814-009-0213-8. , 2011, 26, 1226.		0
26	Transient hydromagnetic flow in a rotating channel permeated by an inclined magnetic field with magnetic induction and Maxwell displacement current effects. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2010, 61, 147-169.	1.4	31
27	An electrical network for the numerical solution of transient mhd couette flow of a dusty fluid: Effects of variable properties and hall current. <i>International Communications in Heat and Mass Transfer</i> , 2010, 37, 1432-1439.	5.6	12
28	Electric analogue for the dynamics of decompression sickness bubbles: Numerical results. <i>Acta Astronautica</i> , 2010, 66, 59-69.	3.2	4
29	Hydromagnetic free convection flow with induced magnetic field effects. <i>Meccanica</i> , 2010, 45, 175-185.	2.0	72
30	Network numerical modelling of unsteady MHD free convection flow with mass transfer, hall current and viscous dissipation effects. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010, 26, 1687-1699.	2.1	0
31	Network numerical analysis of hydromagnetic squeeze film flow dynamics between two parallel rotating disks with induced magnetic field effects. <i>Tribology International</i> , 2010, 43, 532-543.	5.9	55
32	Network simulation method applied to models of diffusion-limited gas bubble dynamics in tissue. <i>Acta Astronautica</i> , 2010, 67, 344-352.	3.2	12
33	Numerical study of magnetohydrodynamic viscous plasma flow in rotating porous media with Hall currents and inclined magnetic field influence. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 345-359.	3.3	48
34	Finite element study of nonlinear two-dimensional deoxygenated biomagnetic micropolar flow. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 1210-1223.	3.3	53
35	Numerical Determination of the Temperature Dependent Thermophysical Properties in Solid Materials: Experimental Instrumentation. , 2010, , .		1
36	UNSTEADY HYDROMAGNETIC NATURAL CONVECTION OF A SHORT-MEMORY VISCOELASTIC FLUID IN A NON-DARCIAN REGIME: NETWORK SIMULATION. <i>Chemical Engineering Communications</i> , 2010, 198, 172-190.	2.6	28

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37	NETWORK NUMERICAL ANALYSIS OF OPTICALLY THICK HYDROMAGNETIC SLIP FLOW FROM A POROUS SPINNING DISK WITH RADIATION FLUX, VARIABLE THERMOPHYSICAL PROPERTIES, AND SURFACE INJECTION EFFECTS. <i>Chemical Engineering Communications</i> , 2010, 198, 360-384.	2.6	25
38	NUMERICAL ANALYSIS OF HYDROMAGNETIC GRAVITY-DRIVEN THIN FILM MICROPOLAR FLOW ALONG AN INCLINED PLANE. <i>Chemical Engineering Communications</i> , 2010, 198, 312-331.	2.6	19
39	NETWORK NUMERICAL SIMULATION OF HYDROMAGNETIC MARANGONI MIXED CONVECTION BOUNDARY LAYERS. <i>Chemical Engineering Communications</i> , 2010, 198, 552-571.	2.6	14
40	Numerical solutions for unsteady rotating high-porosity medium channel Couette hydrodynamics. <i>Physica Scripta</i> , 2009, 80, 035001.	2.5	6
41	NSM analysis of time-dependent nonlinear buoyancy-driven double-diffusive radiative convection flow in non-Darcy geological porous media. <i>Acta Mechanica</i> , 2009, 202, 181-204.	2.1	29
42	Unsteady MHD free convection of a micropolar fluid between two parallel porous vertical walls with convection from the ambient. <i>International Communications in Heat and Mass Transfer</i> , 2009, 36, 203-209.	5.6	14
43	Network numerical simulation of two-dimensional nonlinear micropolar hydrodynamics in a Darcian porous medium. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 1226-1234.	2.7	7
44	Network simulation solutions for laminar radiating dissipative magneto-gas dynamic heat transfer over a wedge in non-Darcian porous regime. <i>Mathematical and Computer Modelling</i> , 2009, 50, 439-452.	2.0	19
45	Unsteady magnetohydrodynamic Hartmannâ€œCouette flow and heat transfer in a Darcian channel with Hall current, ion-slip, viscous and Joule heating effects: Network numerical solutions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 1082-1097.	3.3	71
46	Transient nonlinear optically-thick radiativeâ€œconvective double-diffusive boundary layers in a Darcian porous medium adjacent to an impulsively started surface: Network simulation solutions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 3856-3866.	3.3	17
47	Thermophoretic hydromagnetic dissipative heat and mass transfer with lateral mass flux, heat source, Ohmic heating and thermal conductivity effects: Network simulation numerical study. <i>Applied Thermal Engineering</i> , 2009, 29, 2808-2815.	6.0	49
48	Magnetohydrodynamic convection flow from a sphere to a non-Darcian porous medium with heat generation or absorption effects: network simulation. <i>International Journal of Thermal Sciences</i> , 2009, 48, 913-921.	4.9	45
49	Network numerical analysis of magneto-micropolar convection through a vertical circular non-Darcian porous medium conduit. <i>Computational Materials Science</i> , 2009, 46, 1028-1037.	3.0	29
50	Network modelling of unsteady natural convection flow over a vertical plate submitted to surface temperature oscillation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2009, 19, 285-302.	2.8	7
51	Numerical Study of Chemically Reactive Buoyancy-Driven Heat and Mass Transfer across a Horizontal Cylinder in a High-Porosity Non-Darcian Regime. <i>Journal of Porous Media</i> , 2009, 12, 519-535.	1.9	32
52	Laminar free convection from a continuously-moving vertical surface in thermally-stratified non-Darcian high-porosity medium: Network numerical study. <i>International Communications in Heat and Mass Transfer</i> , 2008, 35, 810-816.	5.6	48
53	Unsteady conjugate problem of a dissipative fluid in a horizontal channel with a periodic variation temperature. <i>Meccanica</i> , 2008, 43, 37-46.	2.0	5
54	Transient Couette flow in a rotating non-Darcian porous medium parallel plate configuration: network simulation method solutions. <i>Acta Mechanica</i> , 2008, 200, 129-144.	2.1	42

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55	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
56	A network thermodynamic method for the numerical solution of Burgers's equation. Mathematical and Computer Modelling, 2008, 47, 401-410.	2.0	6
57	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
58	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
59	Application of a lumped model to solids with linearly temperature-dependent thermal conductivity. Applied Mathematical Modelling, 2007, 31, 302-310.	4.2	17
60	Erratum to "Network simulation method applied to radiation and viscous dissipation effects on MHD unsteady free convection over vertical porous plate" [Appl. Math. Model. 31 (9) (2007) 2019-2033]. Applied Mathematical Modelling, 2007, 31, 2754.	4.2	6
61	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