

Amit Mahajan

List of Publications by Year in descending order

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687363

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52
all docs

52
docs citations

52
times ranked

174
citing authors

#	ARTICLE	IF	CITATIONS
1	A nonlinear stability analysis for magnetized ferrofluid heated from below. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 83-98.	2.1	60
2	Thermal convection in micropolar ferrofluid in the presence of rotation. Journal of Magnetism and Magnetic Materials, 2008, 320, 316-324.	2.3	42
3	Global stability for thermal convection in a couple-stress fluid. International Communications in Heat and Mass Transfer, 2011, 38, 938-942.	5.6	36
4	A Nonlinear Stability Analysis for Thermoconvective Magnetized Ferrofluid Saturating a Porous Medium. Transport in Porous Media, 2009, 76, 327-343.	2.6	33
5	Penetrative convection in magnetic nanofluids via internal heating. Physics of Fluids, 2017, 29, .	4.0	22
6	The onset of convection in a magnetic nanofluid layer with variable gravity effects. Applied Mathematics and Computation, 2018, 339, 622-635.	2.2	21
7	Convection in rotating magnetic nanofluids. Applied Mathematics and Computation, 2013, 219, 6284-6296.	2.2	19
8	Linear and weakly nonlinear stability analysis on a rotating anisotropic ferrofluid layer. Physics of Fluids, 2020, 32, .	4.0	19
9	A nonlinear stability analysis for rotating magnetized ferrofluid heated from below. Applied Mathematics and Computation, 2008, 204, 299-310.	2.2	17
10	Double-diffusive convection in a magnetic nanofluid layer with cross diffusion effects. Journal of Engineering Mathematics, 2019, 115, 67-87.	1.2	16
11	CONVECTION IN MAGNETIC NANOFUIDS IN POROUS MEDIA. Journal of Porous Media, 2014, 17, 439-455.	1.9	16
12	A nonlinear stability analysis for thermoconvective magnetized ferrofluid with magnetic field dependent viscosity. International Communications in Heat and Mass Transfer, 2008, 35, 1281-1287.	5.6	14
13	A nonlinear stability analysis for rotating magnetized ferrofluid heated from below saturating a porous medium. Zeitschrift Fur Angewandte Mathematik Und Physik, 2009, 60, 344-362.	1.4	14
14	Onset of Darcy-Brinkman double-diffusive convection in a magnetized ferrofluid layer using a thermal non-equilibrium model: a nonlinear stability analysis. Journal of Geophysics and Engineering, 2010, 7, 417-430.	1.4	14
15	Linear and Nonlinear Stability Analysis of a Horton-Rogers-Lapwood Problem with an Internal Heat Source and Brinkman Effects. Transport in Porous Media, 2017, 117, 261-280.	2.6	14
16	Anisotropic porous penetrative convection for a local thermal non-equilibrium model with Brinkman effects. International Journal of Heat and Mass Transfer, 2017, 115, 235-250.	4.8	13
17	Effects of spatially varying gravity, temperature and concentration fields on the stability of a chemically reacting fluid layer. Journal of Engineering Mathematics, 2020, 125, 23-45.	1.2	13
18	NONLINEAR FERROCONVECTION IN A POROUS LAYER USING A THERMAL NONEQUILIBRIUM MODEL. Special Topics and Reviews in Porous Media, 2010, 1, 105-121.	1.1	12

#	ARTICLE	IF	CITATIONS
19	A nonlinear stability analysis of a double-diffusive magnetized ferrofluid with magnetic field-dependent viscosity. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 2810-2820.	2.3	11
20	Onset of Darcy-Brinkman Ferroconvection in a Rotating Porous Layer Using a Thermal Non-Equilibrium Model: A Nonlinear Stability Analysis. <i>Transport in Porous Media</i> , 2011, 88, 421-439.	2.6	11
21	Convection in a magnetic nanofluid saturating a porous medium under the influence of a variable gravity field. <i>Engineering Science and Technology, an International Journal</i> , 2018, 21, 439-450.	3.2	10
22	Stability of a chemically reacting double-diffusive fluid layer in a porous medium. <i>Heat Transfer</i> , 2021, 50, 6148-6163.	3.0	10
23	A Nonlinear Stability Analysis of a Rotating Double-Diffusive Magnetized Ferrofluid Saturating a Porous Medium. <i>Heat Transfer Research</i> , 2009, 40, 351-378.	1.6	10
24	A nonlinear stability analysis of a rotating double-diffusive magnetized ferrofluid. <i>Applied Mathematics and Computation</i> , 2011, 218, 2785-2799.	2.2	9
25	Penetrative convection in a fluid saturated Darcy-Brinkman porous media with LTNE via internal heat source. <i>Nonlinear Engineering</i> , 2019, 8, 546-558.	2.7	9
26	Conditional stability for thermal convection in a rotating couple-stress fluid saturating a porous media with temperature- and pressure-dependent viscosity using a thermal non-equilibrium model. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2014, 39, .	4.2	8
27	On the Stability of Penetrative Convection in a Couple-Stress Fluid. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 3745-3758.	1.6	8
28	The onset of penetrative convection stimulated by internal heating in a magnetic nanofluid saturating a rotating porous medium. <i>Canadian Journal of Physics</i> , 2018, 96, 898-911.	1.1	8
29	Penetrative convection in couple-stress fluid via internal heat source/sink with the boundary effects. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 260, 133-141.	2.4	8
30	Stability analysis of a couple-stress fluid saturating a porous medium with temperature and pressure dependent viscosity using a thermal non-equilibrium model. <i>Applied Mathematics and Computation</i> , 2019, 340, 15-30.	2.2	8
31	Unconditional nonlinear stability for double-diffusive convection with temperature- and pressure-dependent viscosity. <i>Heat Transfer</i> , 2021, 50, 1523-1542.	3.0	7
32	Thermoconvective magnetized ferrofluid with internal angular momentum saturating a porous medium: A nonlinear stability analysis. <i>Applied Mathematics and Computation</i> , 2008, 205, 403-416.	2.2	6
33	A nonlinear stability analysis in a double-diffusive magnetized ferrofluid layer saturating a porous medium. <i>Journal of Geophysics and Engineering</i> , 2008, 5, 311-322.	1.4	6
34	Stability of magnetic fluid motions in a saturated porous medium. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2011, 62, 529-538.	1.4	6
35	Conditional stability for thermal convection in a rotating couple-stress fluid saturating a porous medium with temperature and pressure dependent viscosity. <i>Journal of Geophysics and Engineering</i> , 2013, 10, .	1.4	6
36	Penetrative Internally Heated Convection in Magnetic Fluids. <i>Defect and Diffusion Forum</i> , 2018, 387, 373-384.	0.4	6

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37	Effect of nonlinear temperature and concentration profiles on the stability of a layer of fluid with chemical reaction. Canadian Journal of Physics, 2021, 99, 367-377.	1.1	6
38	A nonlinear stability analysis in a double-diffusive magnetized ferrofluid with magnetic-field-dependent viscosity saturating a porous medium. Canadian Journal of Physics, 2009, 87, 659-673.	1.1	5
39	Linear and weakly nonlinear analysis of a ferrofluid layer for an LTNE model with variable gravity and internal heat source. Journal of Engineering Mathematics, 2020, 124, 11-39.	1.2	5
40	Convection in Magnetic Nanofluids. Journal of Nanofluids, 2013, 2, 147-156.	2.7	5
41	A Nonlinear Stability Analysis of a Double-Diffusive Magnetized Ferrofluid. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 797-807.	1.5	4
42	Linear Stability Analysis of Penetrative Convection via Internal Heating in a Ferrofluid Saturated Porous Layer. Fluids, 2017, 2, 22.	1.7	4
43	Thermomagnetic convection in a layer of magnetic nanofluid saturating porous medium with magnetic field dependent viscosity. International Journal of Nanoparticles, 2019, 11, 181.	0.3	4
44	A Nonlinear Stability Analysis for Thermoconvective Magnetized Ferrofluid with Magnetic-Field-Dependent Viscosity Saturating a Porous Medium. Journal of Porous Media, 2009, 12, 667-682.	1.9	4
45	Effects of vertical throughflow and variable gravity field on double diffusive convection in a fluid layer. Ricerche Di Matematica, 0, , 1.	1.0	4
46	Nonlinear stability analysis of a fluid saturated anisotropic Darcyâ€“Brinkman medium with internal heat source. Applied Mathematics and Computation, 2019, 358, 216-231.	2.2	3
47	Effect of Slip Boundary Conditions on Double Diffusive Convection in a Fluid Layer. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	2
48	Nonlinear stability analysis of double diffusive convection in a fluid saturated porous layer with variable gravity and throughflow. Applied Mathematics and Computation, 2022, 425, 127060.	2.2	2
49	Penetrative convection due to absorption of radiation in a magnetic nanofluid saturated porous layer. Studia Geotechnica Et Mechanica, 2019, 41, 129-142.	0.5	1
50	EFFECT OF SUSPENDED PARTICLES ON MARGINAL STABILITY OF A DOUBLE-DIFFUSIVE MAGNETIZED FERROFLUID WITH INTERNAL ANGULAR MOMENTUM. Chemical Engineering Communications, 2010, 197, 1553-1570.	2.6	0
51	BRINKMAN FLOW IN COUPLE-STRESS FLUIDS. Special Topics and Reviews in Porous Media, 2012, 3, 215-219.	1.1	0
52	The Effect of Suspended Particles on Marginal Stability of Magnetized Ferrofluid with Internal Angular Momentum. Heat Transfer Research, 2010, 41, 167-186.	1.6	0