

# Amit Mahajan

## List of Publications by Year in descending order

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52  
papers

591  
citations

686830

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h-index

752256

20  
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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.	1.0	60
2	Thermal convection in micropolar ferrofluid in the presence of rotation. Journal of Magnetism and Magnetic Materials, 2008, 320, 316-324.	1.0	42
3	Global stability for thermal convection in a couple-stress fluid. International Communications in Heat and Mass Transfer, 2011, 38, 938-942.	2.9	36
4	A Nonlinear Stability Analysis for Thermoconvective Magnetized Ferrofluid Saturating a Porous Medium. Transport in Porous Media, 2009, 76, 327-343.	1.2	33
5	Penetrative convection in magnetic nanofluids via internal heating. Physics of Fluids, 2017, 29, .	1.6	22
6	The onset of convection in a magnetic nanofluid layer with variable gravity effects. Applied Mathematics and Computation, 2018, 339, 622-635.	1.4	21
7	Convection in rotating magnetic nanofluids. Applied Mathematics and Computation, 2013, 219, 6284-6296.	1.4	19
8	Linear and weakly nonlinear stability analysis on a rotating anisotropic ferrofluid layer. Physics of Fluids, 2020, 32, .	1.6	19
9	A nonlinear stability analysis for rotating magnetized ferrofluid heated from below. Applied Mathematics and Computation, 2008, 204, 299-310.	1.4	17
10	Double-diffusive convection in a magnetic nanofluid layer with cross diffusion effects. Journal of Engineering Mathematics, 2019, 115, 67-87.	0.6	16
11	CONVECTION IN MAGNETIC NANOFUIDS IN POROUS MEDIA. Journal of Porous Media, 2014, 17, 439-455.	1.0	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.	2.9	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.	0.7	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.	0.7	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.	1.2	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.	2.5	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.	0.6	13
18	NONLINEAR FERROCONVECTION IN A POROUS LAYER USING A THERMAL NONEQUILIBRIUM MODEL. Special Topics and Reviews in Porous Media, 2010, 1, 105-121.	0.6	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.	1.0	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.	1.2	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.	2.0	10
22	Stability of a chemically reacting double-diffusive fluid layer in a porous medium. <i>Heat Transfer</i> , 2021, 50, 6148-6163.	1.7	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.	0.9	10
24	A nonlinear stability analysis of a rotating double-diffusive magnetized ferrofluid. <i>Applied Mathematics and Computation</i> , 2011, 218, 2785-2799.	1.4	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.	1.4	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, .	2.4	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.	0.9	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.	0.4	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.	1.0	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.	1.4	8
31	Unconditional nonlinear stability for double-diffusive convection with temperature- and pressure-dependent viscosity. <i>Heat Transfer</i> , 2021, 50, 1523-1542.	1.7	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.	1.4	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.	0.7	6
34	Stability of magnetic fluid motions in a saturated porous medium. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2011, 62, 529-538.	0.7	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, .	0.7	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. <i>Canadian Journal of Physics</i> , 2021, 99, 367-377.	0.4	6
38	A nonlinear stability analysis in a double-diffusive magnetized ferrofluid with magnetic-field-dependent viscosity saturating a porous medium. <i>Canadian Journal of Physics</i> , 2009, 87, 659-673.	0.4	5
39	Linear and weakly nonlinear analysis of a ferrofluid layer for an LTNE model with variable gravity and internal heat source. <i>Journal of Engineering Mathematics</i> , 2020, 124, 11-39.	0.6	5
40	Convection in Magnetic Nanofluids. <i>Journal of Nanofluids</i> , 2013, 2, 147-156.	1.4	5
41	A Nonlinear Stability Analysis of a Double-Diffusive Magnetized Ferrofluid. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2008, 63, 797-807.	0.7	4
42	Linear Stability Analysis of Penetrative Convection via Internal Heating in a Ferrofluid Saturated Porous Layer. <i>Fluids</i> , 2017, 2, 22.	0.8	4
43	Thermomagnetic convection in a layer of magnetic nanofluid saturating porous medium with magnetic field dependent viscosity. <i>International Journal of Nanoparticles</i> , 2019, 11, 181.	0.1	4
44	A Nonlinear Stability Analysis for Thermoconvective Magnetized Ferrofluid with Magnetic-Field-Dependent Viscosity Saturating a Porous Medium. <i>Journal of Porous Media</i> , 2009, 12, 667-682.	1.0	4
45	Effects of vertical throughflow and variable gravity field on double diffusive convection in a fluid layer. <i>Ricerche Di Matematica</i> , 0, , 1.	0.6	4
46	Nonlinear stability analysis of a fluid saturated anisotropic Darcyâ€“Brinkman medium with internal heat source. <i>Applied Mathematics and Computation</i> , 2019, 358, 216-231.	1.4	3
47	Effect of Slip Boundary Conditions on Double Diffusive Convection in a Fluid Layer. <i>International Journal of Applied and Computational Mathematics</i> , 2021, 7, 1.	0.9	2
48	Nonlinear stability analysis of double diffusive convection in a fluid saturated porous layer with variable gravity and throughflow. <i>Applied Mathematics and Computation</i> , 2022, 425, 127060.	1.4	2
49	Penetrative convection due to absorption of radiation in a magnetic nanofluid saturated porous layer. <i>Studia Geotechnica Et Mechanica</i> , 2019, 41, 129-142.	0.2	1
50	EFFECT OF SUSPENDED PARTICLES ON MARGINAL STABILITY OF A DOUBLE-DIFFUSIVE MAGNETIZED FERROFLUID WITH INTERNAL ANGULAR MOMENTUM. <i>Chemical Engineering Communications</i> , 2010, 197, 1553-1570.	1.5	0
51	BRINKMAN FLOW IN COUPLE-STRESS FLUIDS. <i>Special Topics and Reviews in Porous Media</i> , 2012, 3, 215-219.	0.6	0
52	The Effect of Suspended Particles on Marginal Stability of Magnetized Ferrofluid with Internal Angular Momentum. <i>Heat Transfer Research</i> , 2010, 41, 167-186.	0.9	0