

Abdelraheem Aly

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

1,842
citations

25
h-index

39
g-index

123
ext. papers

2,302
ext. citations

3.3
avg, IF

6.32
L-index

#	Paper	IF	Citations
108	Effects of Soret and Dufour numbers on MHD thermosolutal convection of a nanofluid in a finned cavity including rotating circular cylinder and cross shapes. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 130, 105819	5.8	3
107	Thermal diffusion upon magnetic field convection of nano-enhanced phase change materials in a permeable wavy cavity with crescent-shaped partitions. <i>Case Studies in Thermal Engineering</i> , 2022 , 31, 101855	5.6	1
106	ISPH simulations of thermosolutal convection in an annulus amongst an inner prismatic shape and outer cavity including three circular cylinders. <i>Case Studies in Thermal Engineering</i> , 2022 , 30, 101736	5.6	4
105	The conformable fractal systems of natural convection in an annulus suspended by NEPCM. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 134, 106023	5.8	0
104	Magneto-bioconvection flow of hybrid nanofluid in the presence of oxytactic bacteria in a lid-driven cavity with a streamlined obstacle. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 134, 106029	5.8	3
103	Natural convection of a water-based suspension containing nano-encapsulated phase change material in a porous grooved cavity. <i>Journal of Energy Storage</i> , 2022 , 51, 104589	7.8	2
102	Effects of buoyancy ratio on diffusion of solid particles inside a pipe during double diffusive flow of a nanofluid. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 1951-1986	4.5	
101	Double rotations of cylinders on thermosolutal convection of a wavy porous medium inside a cavity mobilized by a nanofluid and impacted by a magnetic field. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , ahead-of-print,	4.5	1
100	Thermosolutal convection of nano-encapsulated phase change materials within a porous circular cylinder containing crescent with periodic side-wall temperature and concentration: ISPH simulation. <i>Physica Scripta</i> , 2021 , 96, 125243	2.6	1
99	Double-diffusive convection of solid particles in a porous X-shaped cavity filled with a nanofluid. <i>Physica Scripta</i> , 2021 , 96, 015301	2.6	3
98	Motion of circular cylinders during natural convection flow in X-shaped cavity filled with a nanofluid using ISPH method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 1449-1474	4.5	6
97	ISPH simulations of natural convection from rotating circular cylinders inside a horizontal wavy cavity filled with a nanofluid and saturated by a heterogeneous porous medium. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 1173	2.3	1
96	Three-dimensional flow of a power-law nanofluid within a cubic domain filled with a heat-generating and 3D-heterogeneous porous medium. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 1185	2.3	1
95	Double-diffusive convection of a rotating circular cylinder in a porous cavity suspended by nano-encapsulated phase change materials. <i>Case Studies in Thermal Engineering</i> , 2021 , 24, 100864	5.6	26
94	Natural convection flow of a nanofluid-filled V-shaped cavity saturated with a heterogeneous porous medium: Incompressible smoothed particle hydrodynamics analysis. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 2033-2046	4.4	14
93	The magnetic field on a nanofluid flow within a finned cavity containing solid particles. <i>Case Studies in Thermal Engineering</i> , 2021 , 25, 100945	5.6	22
92	Thermal behavior and energy storage of a suspension of nano-encapsulated phase change materials in an enclosure. <i>Advanced Powder Technology</i> , 2021 , 32, 2004-2019	4.6	3

91	Natural convection of a heated paddle wheel within a cross-shaped cavity filled with a nanofluid: ISPH simulations. <i>Archive of Applied Mechanics</i> , 2021 , 91, 4441	2.2	
90	Double-diffusive convection from a rotating rectangle in a finned cavity filled by a nanofluid and affected by a magnetic field. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 126, 105363	5.8	7
89	Mixed convection in a nanofluid-filled sloshing porous cavity including inner heated rose. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 275-291	4.1	5
88	Incompressible smoothed particle hydrodynamics simulations of natural convection flow resulting from embedded Y-fin inside Y-shaped enclosure filled with a nanofluid. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 154-173	4.5	1
87	Simulations of a Sloshing Circular Cylinder Inside an Enclosure Filled with Nanofluids. <i>Journal of Thermophysics and Heat Transfer</i> , 2021 , 35, 296-311	1.3	
86	Impacts of variable magnetic field on a ferrofluid flow inside a cavity including a helix using ISPH method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 2150-2171	4.5	5
85	Heat transfer enhancement in the complex geometries filled with porous media. <i>Thermal Science</i> , 2021 , 25, 39-57	1.2	7
84	Natural Convection in an H-shaped Porous Enclosure Filled with a Nanofluid. <i>Computers, Materials and Continua</i> , 2021 , 66, 3233-3251	3.9	2
83	Rotating cylinder and magnetic field on solid particles diffusion inside a porous cavity filled with a nanofluid. <i>Nanomaterials and Nanotechnology</i> , 2021 , 11, 184798042110342	2.9	2
82	Numerical simulations of solid particles dispersion during double-diffusive convection of a nanofluid in a cavity with a wavy source. <i>Archive of Applied Mechanics</i> , 2021 , 91, 2089-2108	2.2	0
81	Double-Diffusive of a Nanofluid in a Rectangle-Shape Mounted on a Cavity Saturated by Heterogeneous Porous Media. <i>Journal of Mathematics</i> , 2021 , 2021, 1-14	1.2	0
80	Double diffusion in a nanofluid cavity with a wavy hot source subjected to a magnetic field using ISPH method. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 1647-1664	6.1	6
79	Thermosolutal convection of a nanofluid in ?-shaped cavity saturated by a porous medium. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , ahead-of-print,	4.5	2
78	Impacts of the Variable Properties of a Porous Medium on the Entropy Analysis Within Odd-Shaped Enclosures Filled by Hybrid Nanofluids. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 7379-7398	2.5	2
77	Double-diffusive convection between two different phases in a porous infinite-shaped enclosure suspended by nano encapsulated phase change materials. <i>Case Studies in Thermal Engineering</i> , 2021 , 26, 101016	5.6	9
76	ISPH analysis of thermosolutal convection from an embedded I-Shaped inside an inclined infinite-shaped enclosure suspended by NEPCM. <i>Case Studies in Thermal Engineering</i> , 2021 , 26, 101071	5.6	3
75	MHD mixed convection of hybrid nanofluid in a wavy porous cavity employing local thermal non-equilibrium condition. <i>Scientific Reports</i> , 2021 , 11, 17151	4.9	2
74	Magnetic impact on heat and mass transfer utilizing nonofluid in an annulus between a superellipse obstacle and a cavity with periodic side-wall temperature and concentration. <i>Communications in Theoretical Physics</i> , 2021 , 73, 115001	2.4	1

73	Double rotations between an inner wavy shape and a hexagonal-shaped cavity suspended by NEPCM using a time-fractional derivative of the ISPH method. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 127, 105533	5.8	6
72	The magnetic power on natural convection of NEPCM suspended in a porous annulus between a hexagonal-shaped cavity and dual curves. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101354	5.6	3
71	Effect of dual-rotation on MHD natural convection of NEPCM in a hexagonal-shaped cavity based on time-fractional ISPH method. <i>Scientific Reports</i> , 2021 , 11, 22687	4.9	0
70	Effects of uniform circular motion on natural convection in a cavity filled with a nanofluid using incompressible SPH method. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 116, 104646	5.8	8
69	Mixing between solid and fluid particles during natural convection flow of a nanofluid-filled H-shaped cavity with three center gates using ISPH method. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 157, 119803	4.9	18
68	Natural convection of Al ₂ O ₃ -water nanofluid filled annulus between a wavy rectangle and a square cavity using Buongiorno's two-phase model. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020 , 100, e202000002	1	1
67	Entropy Generation for Flow and Heat Transfer of Sisko-Fluid Over an Exponentially Stretching Surface. <i>Computers, Materials and Continua</i> , 2020 , 62, 37-59	3.9	9
66	MHD Boundary Layer Flow of a Power-Law Nanofluid Containing Gyrotactic Microorganisms Over an Exponentially Stretching Surface. <i>Computers, Materials and Continua</i> , 2020 , 62, 525-549	3.9	14
65	Magnetohydrodynamic convective flow of nanofluid in double lid-driven cavities under slip conditions. <i>Thermal Science</i> , 2020 , 141-141	1.2	2
64	Interactive fluid flow simulation in computer graphics using incompressible smoothed particle hydrodynamics. <i>Computer Animation and Virtual Worlds</i> , 2020 , 31, e1916	0.9	2
63	ISPH method for MHD convective flow from grooves inside a nanofluid-filled cavity under the effects of Soret and Dufour numbers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 546, 124087	3.3	17
62	Finite element simulation for MHD ferro-convective flow in an inclined double-lid driven L-shaped enclosure with heated corners. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 217-226	6.1	16
61	ISPH simulations for a variable magneto-convective flow of a ferrofluid in a closed space includes open circular pipes. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 110, 104412	5.8	16
60	Triple convective flow of micropolar nanofluids in double lid-driven enclosures partially filled with LTNE porous layer under effects of an inclined magnetic field. <i>Chinese Journal of Physics</i> , 2020 , 68, 387-405	2.5	12
59	ISPH simulations of natural convection flow in E-enclosure filled with a nanofluid including homogeneous/heterogeneous porous media and solid particles. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 160, 120153	4.9	26
58	Natural convection of a nanofluid-filled circular enclosure partially saturated with a porous medium using ISPH method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020 , 30, 4909-4932	4.5	11
57	Incompressible smoothed particle hydrodynamics simulation of natural convection in a nanofluid-filled complex wavy porous cavity with inner solid particles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 537, 122623	3.3	47
56	Analysis of mixed convection in a sloshing porous cavity filled with a nanofluid using ISPH method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 1977-1991	4.1	22

55	Heat transfer enhancement from an inclined plate through a heat generating and variable porosity porous medium using nanofluids due to solar radiation. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	7
54	Natural Convection from Heated Shape in Nanofluid-Filled Cavity Using Incompressible Smoothed Particle Hydrodynamics. <i>Journal of Thermophysics and Heat Transfer</i> , 2019 , 33, 917-931	1.3	2
53	Natural convection in a nanofluid-filled cavity with solid particles in an inner cross shape using ISPH method. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 141, 390-406	4.9	18
52	Incompressible smoothed particle hydrodynamics method for natural convection of a ferrofluid in a partially layered porous cavity containing a sinusoidal wave rod under the effect of a variable magnetic field. <i>AIP Advances</i> , 2019 , 9, 105210	1.5	8
51	Incompressible smoothed particle hydrodynamics for MHD double-diffusive natural convection of a nanofluid in a cavity containing an oscillating pipe. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 882-917	4.5	12
50	ISPH method for MHD double-diffusive natural convection of a nanofluid within cavity containing open pipes. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 3607-3634	4.5	6
49	Natural convection from heated fin shapes in a nanofluid-filled porous cavity using incompressible smoothed particle hydrodynamics. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 4569-4597	4.5	9
48	Coupled fluid-structure interactions of natural convection in a ferrofluid using ISPH method. <i>AEJ - Alexandria Engineering Journal</i> , 2019 , 58, 1499-1516	6.1	9
47	Mixed Convection in an Inclined Nanofluid Filled-Cavity Saturated With a Partially Layered Porous Medium. <i>Journal of Thermal Science and Engineering Applications</i> , 2019 , 11,	1.9	18
46	Entropy generation due to mixed convection over vertical permeable cylinders using nanofluids. <i>Journal of King Saud University - Science</i> , 2019 , 31, 352-361	3.6	24
45	Mixed Convection in a Cavity Saturated with Wavy Layer Porous Medium: Entropy Generation. <i>Journal of Thermophysics and Heat Transfer</i> , 2018 , 32, 764-780	1.3	12
44	A numerical study on unsteady natural/mixed convection in a cavity with fixed and moving rigid bodies using the ISPH method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018 , 28, 684-703	4.5	32
43	ISPH modeling of natural convection heat transfer with an analytical kernel renormalization factor. <i>Meccanica</i> , 2018 , 53, 2299-2318	2.1	31
42	Improved wall boundary conditions in the incompressible smoothed particle hydrodynamics method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018 , 28, 704-725	4.5	27
41	Natural convection flow of a power-law non-Newtonian nanofluid in inclined open shallow cavities filled with porous media. <i>International Journal of Mechanical Sciences</i> , 2018 , 140, 376-393	5.5	57
40	Incompressible smoothed particle hydrodynamics (ISPH) method for natural convection in a nanofluid-filled cavity including rotating solid structures. <i>International Journal of Mechanical Sciences</i> , 2018 , 146-147, 125-140	5.5	33
39	NATURAL CONVECTION IN AN ENCLOSURE SATURATED WITH MULTILAYER POROUS MEDIUM AND NANOFUID OVER CIRCULAR CYLINDERS: ENTROPY GENERATION. <i>Journal of Porous Media</i> , 2018 , 21, 1007-1024	2.9	7
38	DOUBLE-DIFFUSIVE NATURAL CONVECTION IN A SQUARE POROUS CAVITY WITH SINUSOIDAL DISTRIBUTIONS SIDE WALLS FILLED WITH A NANOFUID. <i>Journal of Porous Media</i> , 2018 , 21, 101-122	2.9	7

37	Water entry of decelerating spheres simulations using improved ISPH method. <i>Journal of Hydrodynamics</i> , 2018 , 30, 1120-1133	3.3	16
36	Numerical simulation of natural convection using unsteady compressible Navier-stokes equations. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017 , 27, 2508-2527	4.5	11
35	Effect of a wavy interface on the natural convection of a nanofluid in a cavity with a partially layered porous medium using the ISPH method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 72, 68-88	2.3	44
34	Natural convection over circular cylinders in a porous enclosure filled with a nanofluid under thermo-diffusion effects. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 70, 88-103	5.3	45
33	Magnetic field and internal heat generation effects on the free convection in a rectangular cavity filled with a porous medium saturated with Cu ₂ O-Water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 878-889	4.9	152
32	DOUBLE-DIFFUSIVE NATURAL CONVECTION IN A NON-DARCY POROUS CAVITY FILLED WITH NANOFUID UNDER THE EFFECTS OF CHEMICAL REACTION. <i>Journal of Porous Media</i> , 2017 , 20, 111-126	2.9	7
31	Double-Diffusive Natural Convective Flow of a Nanofluid Over a Vertical Cylinder. <i>Journal of Nanofluids</i> , 2016 , 5, 110-119	2.2	3
30	ON MIXED CONVECTION IN AN INCLINED LID-DRIVEN CAVITY WITH SINUSOIDAL HEATED WALLS USING THE ISPH METHOD. <i>Computational Thermal Sciences</i> , 2016 , 8, 337-354	1.9	17
29	Unsteady natural convection heat transfer in a nanofluid-filled square cavity with various heat source conditions. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401664654	1.2	10
28	ISPH method for double-diffusive natural convection under cross-diffusion effects in an anisotropic porous cavity/annulus. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016 , 26, 235-288	4.5	22
27	Double-diffusive natural convection in an enclosure including/excluding sloshing rod using a stabilized ISPH method. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 73, 84-99	5.8	28
26	Double-diffusive natural convection in an enclosure filled with nanofluid using ISPH method. <i>AEJ - Alexandria Engineering Journal</i> , 2016 , 55, 3037-3052	6.1	36
25	Modeling of multi-phase flows and natural convection in a square cavity using an incompressible smoothed particle hydrodynamics. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2015 , 25, 513-533	4.5	32
24	Three-Dimensional Incompressible Smoothed Particle Hydrodynamics for Simulating Fluid Flows Through Porous Structures. <i>Transport in Porous Media</i> , 2015 , 110, 483-502	3.1	26
23	Numerical Analysis of Liquid Sloshing Using the Incompressible Smoothed Particle Hydrodynamics Method. <i>Advances in Mechanical Engineering</i> , 2015 , 7, 765741	1.2	11
22	Natural Convection in a Non-Darcy Porous Cavity Filled with Cu ₂ O-Water Nanofluid Using the Characteristic-Based Split Procedure in Finite-Element Method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015 , 67, 224-247	2.3	52
21	Analysis of unsteady mixed convection in lid-driven cavity included circular cylinders motion using an incompressible smoothed particle hydrodynamics method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2015 , 25, 2000-2021	4.5	26
20	Double-Diffusive Natural Convection with Cross-Diffusion Effects in an Anisotropic Porous Enclosure Using ISPH Method 2015 ,		3

19	Modelling of Non-Darcy Flows through Porous Media Using Extended Incompressible Smoothed Particle Hydrodynamics. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2015 , 67, 255-279	1.3	20
18	An incompressible smoothed particle hydrodynamics method for natural/mixed convection in a non-Darcy anisotropic porous medium. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 77, 1155-1168	4.9	32
17	Numerical simulations of impact flows with incompressible smoothed particle hydrodynamics. <i>Journal of Mechanical Science and Technology</i> , 2014 , 28, 2179-2188	1.6	13
16	Incompressible Smoothed Particle Hydrodynamics Simulations of Fluid-Structure Interaction on Free Surface Flows. <i>International Journal of Fluid Mechanics Research</i> , 2014 , 41, 471-484	4.3	4
15	Modelling of surface tension force for free surface flows in ISPH method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013 , 23, 479-498	4.5	39
14	Transient natural convection flow of a nanofluid over a vertical cylinder. <i>Meccanica</i> , 2013 , 48, 71-81	2.1	44
13	A Stabilized Incompressible SPH Method by Relaxing the Density Invariance Condition. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-24	1.1	96
12	Unsteady double-diffusive natural convective MHD flow along a vertical cylinder in the presence of chemical reaction, thermal radiation and Soret and Dufour effects. <i>Journal of Naval Architecture and Marine Engineering</i> , 2011 , 8, 25-36	1.4	5
11	Unsteady MHD free convective heat and mass transfer from a vertical porous plate with Hall current, thermal radiation and chemical reaction effects. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 65, 432-447	1.9	10
10	Simulation of free falling rigid body into water by a stabilized incompressible SPH method. <i>Ocean Systems Engineering</i> , 2011 , 1, 207-222		31
9	EFFECTS OF SORET AND DUFOUR NUMBERS ON FREE CONVECTION OVER ISOTHERMAL AND ADIABATIC STRETCHING SURFACES EMBEDDED IN POROUS MEDIA. <i>Journal of Porous Media</i> , 2011 , 14, 67-72	2.9	9
8	HEAT AND MASS TRANSFER IN STAGNATION-POINT FLOW OF A POLAR FLUID TOWARDS A STRETCHING SURFACE IN POROUS MEDIA IN THE PRESENCE OF SORET, DUFOUR AND CHEMICAL REACTION EFFECTS. <i>Chemical Engineering Communications</i> , 2010 , 198, 214-234	2.2	28
7	MHD FREE CONVECTION FLOW OF A NANOFLUID PAST A VERTICAL PLATE IN THE PRESENCE OF HEAT GENERATION OR ABSORPTION EFFECTS. <i>Chemical Engineering Communications</i> , 2010 , 198, 425-441	2.2	129
6	SIMILARITY SOLUTION FOR UNSTEADY HEAT AND MASS TRANSFER FROM A STRETCHING SURFACE EMBEDDED IN A POROUS MEDIUM WITH SUCTION/INJECTION AND CHEMICAL REACTION EFFECTS. <i>Chemical Engineering Communications</i> , 2010 , 197, 846-858	2.2	132
5	CHEMICAL REACTION AND MAGNETOHYDRODYNAMIC EFFECTS ON FREE CONVECTION FLOW PAST AN INCLINED SURFACE IN A POROUS MEDIUM. <i>Journal of Porous Media</i> , 2010 , 13, 87-96	2.9	8
4	Double-diffusive convection from an oscillating baffle embedded in an astroid-shaped cavity suspended by nano encapsulated phase change materials: ISPH simulations. <i>Waves in Random and Complex Media</i> , 1-20	1.9	1
3	Double-diffusive convection in a porous complex-shaped cavity suspended by nano-encapsulated phase change materials. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , e202000376	1	0
2	Effect of Hall current on the flow and heat transfer of non-Newtonian power-law nanofluid in the presence of Cattaneo-Christov heat flux and free stream. <i>International Journal of Modern Physics C</i> , 2150148	1.1	0

1	Radiative and heat generation effects on MHD mixed convection of non-Newtonian nanofluids in lid-driven inclined odd-shaped porous cavity containing obstacle using local thermal non-equilibrium condition. <i>Waves in Random and Complex Media</i> ,1-28	1.9	1
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