Efstratios E Tzirtzilakis

List of Publications by Year
in descending order

35 papers	841 citations	687363 13 h-index	501196 28 g-index
35 all docs	35 docs citations	35 times ranked	468 citing authors

#	Article	IF	Citations
1	A two-phase, two-way coupled model of targeted magnetic drug delivery for small Reynolds numbers. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 374-396.	3.1	1
2	Biomagnetic Flow with CoFe2O4 Magnetic Particles through an Unsteady Stretching/Shrinking Cylinder. Magnetochemistry, 2022, 8, 27.	2.4	12
3	Simulation of targeted magnetic drug delivery: Two-way coupled biomagnetic fluid dynamics approach. Physics of Fluids, 2022, 34, .	4.0	8
4	Application of Biomagnetic Fluid Dynamics modeling for simulation of flow with magnetic particles and variable fluid properties over a stretching cylinder. Mathematics and Computers in Simulation, 2022, 199, 438-462.	4.4	14
5	Dual solutions for boundary layer flow and heat transfer of biomagnetic fluid over a stretching/shrinking sheet in presence of a magnetic dipole and a prescribed heat flux. International Journal of Applied Electromagnetics and Mechanics, 2021, 65, 235-251.	0.6	2
6	Biomagnetic Fluid Flow and Heat Transfer Study of Blood with Gold Nanoparticles over a Stretching Sheet in the Presence of Magnetic Dipole. Fluids, 2021, 6, 113.	1.7	23
7	The impact of hemodynamic factors in a coronary main artery to detect the atherosclerotic severity: Single and multiple sequential stenosis cases. Physics of Fluids, 2021, 33, .	4.0	14
8	Aligned Magnetic Field and Radiation Effects on Biomagnetic Fluid over an Unsteady Stretching Sheet with Various Slip Conditions. AppliedMath, 2021, 1, 37-62.	0.6	1
9	Hemodynamic characteristics expose the atherosclerotic severity in coronary main arteries: One-dimensional and three-dimensional approaches. Physics of Fluids, 2021, 33, .	4.0	5
10	Numerical study of blood flow and heat transfer through stretching cylinder in the presence of a magnetic dipole. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900278.	1.6	19
11	The effect of hemodynamic parameters in patient-based coronary artery models with serial stenoses: normal and hypertension cases. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 467-475.	1.6	12
12	Micromagnetorotation of MHD Micropolar Flows. Symmetry, 2020, 12, 148.	2.2	14
13	Stability and Convergence Analysis of a Biomagnetic Fluid Flow Over a Stretching Sheet in the Presence of a Magnetic Field. Symmetry, 2020, 12, 253.	2.2	5
14	Dual solutions in biomagnetic fluid flow and heat transfer over a nonlinear stretching/shrinking sheet: Application of lie group transformation method. Mathematical Biosciences and Engineering, 2020, 17, 4852-4874.	1.9	2
15	Biomagnetic fluid flow past a stretching/shrinking sheet with slip conditions using lie group analysis. AIP Conference Proceedings, 2019, , .	0.4	0
16	Three-dimensional biomagnetic Maxwell fluid flow over a stretching surface in presence of heat source/sink. International Journal of Biomathematics, 2019, 12, 1950036.	2.9	11
17	Three-Dimensional Biomagnetic Flow and Heat Transfer over a Stretching Surface with Variable Fluid Properties. Advances in Mechanics and Mathematics, 2019, , 403-414.	0.7	1
18	Hall Current and Viscous Dissipation Effects on Boundary Layer Flow of Heat Transfer Past a Stretching Sheet. International Journal of Applied and Computational Mathematics, 2017, 3, 3471-3487.	1.6	8

#	Article	IF	Citations
19	Effects of radiation and thermal conductivity on MHD boundary layer flow with heat transfer along a vertical stretching sheet in a porous medium. Journal of Engineering Thermophysics, 2017, 26, 96-106.	1.4	5
20	Effect of electrical conductivity and magnetization on the biomagnetic fluid flow over a stretching sheet. Zeitschrift Fur Angewandte Mathematik Und Physik, 2017, 68, 1.	1.4	19
21	The contribution of cluster and discriminant analysis to the classification of complex aquifer systems. Environmental Monitoring and Assessment, 2016, 188, 591.	2.7	17
22	Biomagnetic fluid flow in an aneurysm using ferrohydrodynamics principles. Physics of Fluids, 2015, 27, .	4.0	37
23	Finite element analysis of magnetohydrodynamic effects on blood flow in an aneurysmal geometry. Physics of Fluids, 2014, 26, .	4.0	9
24	Biomagnetic fluid flow in a driven cavity. Meccanica, 2013, 48, 187-200.	2.0	80
25	On the Logistic Equation in the Complex Plane. Numerical Functional Analysis and Optimization, 2013, 34, 770-790.	1.4	4
26	Numerical study of forced and free convective boundary layer flow of a magnetic fluid over a flat plate under the action of a localized magnetic field. Zeitschrift Fur Angewandte Mathematik Und Physik, 2010, 61, 929-947.	1.4	10
27	Three-Dimensional Magnetic Fluid Boundary Layer Flow Over a Linearly Stretching Sheet. Journal of Heat Transfer, 2010, 132, .	2.1	49
28	A â€œDiscretizationâ€•Technique for the Solution of ODEs II. Numerical Functional Analysis and Optimization, 2009, 30, 613-631.	1.4	8
29	Free-forced convective boundary-layer flow of a biomagnetic fluid under the action of a localized magnetic field. Canadian Journal of Physics, 2008, 86, 447-457.	1.1	8
30	A simple numerical methodology for BFD problems using stream function vorticity formulation. Communications in Numerical Methods in Engineering, 2007, 24, 683-700.	1.3	32
31	A â€œdiscretizationâ€•technique for the solution of ODEs. Journal of Mathematical Analysis and Applications, 2007, 331, 279-296.	1.0	12
32	Biofluid flow in a channel under the action of a uniform localized magnetic field. Computational Mechanics, 2005, 36, 360-374.	4.0	40
33	A mathematical model for blood flow in magnetic field. Physics of Fluids, 2005, 17, 077103.	4.0	264
34	Biomagnetic flow in a curved square duct under the influence of an applied magnetic field. Physics of Fluids, 2004, 16, 2952-2962.	4.0	45
35	Biomagnetic fluid flow in a 3D rectangular duct. International Journal for Numerical Methods in Fluids, 2004, 44, 1279-1298.	1.6	50