

# Efstratios E Tzirtzilakis

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5075951/publications.pdf>

Version: 2024-02-01

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 mathematical model for blood flow in magnetic field. <i>Physics of Fluids</i> , 2005, 17, 077103.	4.0	264
2	Biomagnetic fluid flow in a driven cavity. <i>Meccanica</i> , 2013, 48, 187-200.	2.0	80
3	Biomagnetic fluid flow in a 3D rectangular duct. <i>International Journal for Numerical Methods in Fluids</i> , 2004, 44, 1279-1298.	1.6	50
4	Three-Dimensional Magnetic Fluid Boundary Layer Flow Over a Linearly Stretching Sheet. <i>Journal of Heat Transfer</i> , 2010, 132, .	2.1	49
5	Biomagnetic flow in a curved square duct under the influence of an applied magnetic field. <i>Physics of Fluids</i> , 2004, 16, 2952-2962.	4.0	45
6	Biofluid flow in a channel under the action of a uniform localized magnetic field. <i>Computational Mechanics</i> , 2005, 36, 360-374.	4.0	40
7	Biomagnetic fluid flow in an aneurysm using ferrohydrodynamics principles. <i>Physics of Fluids</i> , 2015, 27, .	4.0	37
8	A simple numerical methodology for BFD problems using stream function vorticity formulation. <i>Communications in Numerical Methods in Engineering</i> , 2007, 24, 683-700.	1.3	32
9	Biomagnetic Fluid Flow and Heat Transfer Study of Blood with Gold Nanoparticles over a Stretching Sheet in the Presence of Magnetic Dipole. <i>Fluids</i> , 2021, 6, 113.	1.7	23
10	Effect of electrical conductivity and magnetization on the biomagnetic fluid flow over a stretching sheet. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2017, 68, 1.	1.4	19
11	Numerical study of blood flow and heat transfer through stretching cylinder in the presence of a magnetic dipole. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020, 100, e201900278.	1.6	19
12	The contribution of cluster and discriminant analysis to the classification of complex aquifer systems. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 591.	2.7	17
13	The impact of hemodynamic factors in a coronary main artery to detect the atherosclerotic severity: Single and multiple sequential stenosis cases. <i>Physics of Fluids</i> , 2021, 33, .	4.0	14
14	Micromagnetorotation of MHD Micropolar Flows. <i>Symmetry</i> , 2020, 12, 148.	2.2	14
15	Application of Biomagnetic Fluid Dynamics modeling for simulation of flow with magnetic particles and variable fluid properties over a stretching cylinder. <i>Mathematics and Computers in Simulation</i> , 2022, 199, 438-462.	4.4	14
16	A "discretization" technique for the solution of ODEs. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 331, 279-296.	1.0	12
17	The effect of hemodynamic parameters in patient-based coronary artery models with serial stenoses: normal and hypertension cases. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 467-475.	1.6	12
18	Biomagnetic Flow with CoFe <sub>2</sub> O <sub>4</sub> Magnetic Particles through an Unsteady Stretching/Shrinking Cylinder. <i>Magnetochemistry</i> , 2022, 8, 27.	2.4	12

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Finite element analysis of magnetohydrodynamic effects on blood flow in an aneurysmal geometry. Physics of Fluids, 2014, 26, .	4.0	9
22	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
23	A "Discretization" Technique for the Solution of ODEs II. Numerical Functional Analysis and Optimization, 2009, 30, 613-631.	1.4	8
24	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
25	Simulation of targeted magnetic drug delivery: Two-way coupled biomagnetic fluid dynamics approach. Physics of Fluids, 2022, 34, .	4.0	8
26	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
27	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
28	Hemodynamic characteristics expose the atherosclerotic severity in coronary main arteries: One-dimensional and three-dimensional approaches. Physics of Fluids, 2021, 33, .	4.0	5
29	On the Logistic Equation in the Complex Plane. Numerical Functional Analysis and Optimization, 2013, 34, 770-790.	1.4	4
30	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
31	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
32	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
33	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
34	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
35	Biomagnetic fluid flow past a stretching/shrinking sheet with slip conditions using lie group analysis. AIP Conference Proceedings, 2019, , .	0.4	0