

Ebenezer Bonyah

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6647523/publications.pdf>

Version: 2024-02-01

105
papers

2,581
citations

159585

30
h-index

233421

45
g-index

108
all docs

108
docs citations

108
times ranked

1321
citing authors

#	ARTICLE	IF	CITATIONS
1	The electrical MHD and Hall current impact on micropolar nanofluid flow between rotating parallel plates. Results in Physics, 2018, 9, 1201-1214.	4.1	181
2	Heat and mass transfer together with hybrid nanofluid flow over a rotating disk. AIP Advances, 2020, 10, .	1.3	120
3	Mixed convection in gravity-driven thin film non-Newtonian nanofluids flow with gyrotactic microorganisms. Results in Physics, 2017, 7, 4033-4049.	4.1	86
4	Simulation of bioconvection in the suspension of second grade nanofluid containing nanoparticles and gyrotactic microorganisms. AIP Advances, 2018, 8, .	1.3	77
5	Impact of thermal radiation on electrical MHD rotating flow of Carbon nanotubes over a stretching sheet. AIP Advances, 2019, 9, .	1.3	77
6	Three dimensional third grade nanofluid flow in a rotating system between parallel plates with Brownian motion and thermophoresis effects. Results in Physics, 2018, 10, 36-45.	4.1	76
7	New approaches to the fractional dynamics of schistosomiasis disease model. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 373-393.	2.6	75
8	Radiative MHD thin film flow of Williamson fluid over an unsteady permeable stretching sheet. Heliyon, 2018, 4, e00825.	3.2	73
9	Slip flow of Eyring-Powell nanoliquid film containing graphene nanoparticles. AIP Advances, 2018, 8, .	1.3	70
10	A theoretical model for Zika virus transmission. PLoS ONE, 2017, 12, e0185540.	2.5	69
11	On the coâ€infection of dengue fever and Zika virus. Optimal Control Applications and Methods, 2019, 40, 394-421.	2.1	66
12	Darcy Forchheimer nanofluid thin film flow of SWCNTs and heat transfer analysis over an unsteady stretching sheet. AIP Advances, 2019, 9, .	1.3	63
13	Flow and heat transfer in water based liquid film fluids dispensed with graphene nanoparticles. Results in Physics, 2018, 8, 1143-1157.	4.1	56
14	Mathematical modeling of Zika virus. Asian Pacific Journal of Tropical Disease, 2016, 6, 673-679.	0.5	55
15	Influences of Hall current and radiation on MHD micropolar non-Newtonian hybrid nanofluid flow between two surfaces. AIP Advances, 2020, 10, .	1.3	54
16	Modelling of Rabies Transmission Dynamics Using Optimal Control Analysis. Journal of Applied Mathematics, 2017, 2017, 1-23.	0.9	53
17	Darcy-Forchheimer flow of MHD nanofluid thin film flow with Joule dissipation and Navierâ€™s partial slip. Journal of Physics Communications, 2018, 2, 115014.	1.2	52
18	Modelling the effects of heavy alcohol consumption on the transmission dynamics of gonorrhoea with optimal control. Mathematical Biosciences, 2019, 309, 1-11.	1.9	50

#	ARTICLE	IF	CITATIONS
19	Hall current and thermophoresis effects on magnetohydrodynamic mixed convective heat and mass transfer thin film flow. <i>Journal of Physics Communications</i> , 2019, 3, 035009.	1.2	46
20	Study of two-dimensional boundary layer thin film fluid flow with variable thermo-physical properties in three dimensions space. <i>AIP Advances</i> , 2018, 8, 105318.	1.3	45
21	Dual solutions in MHD stagnation point flow of nanofluid induced by porous stretching/shrinking sheet with anisotropic slip. <i>AIP Advances</i> , 2020, 10, .	1.3	44
22	Entropy optimization in Darcy–Forchheimer MHD flow of water based copper and silver nanofluids with Joule heating and viscous dissipation effects. <i>AIP Advances</i> , 2020, 10, .	1.3	40
23	Darcy-Forchheimer flow of MHD CNTs nanofluid radiative thermal behaviour and convective non uniform heat source/sink in the rotating frame with microstructure and inertial characteristics. <i>AIP Advances</i> , 2018, 8, .	1.3	39
24	Fractional optimal control dynamics of coronavirus model with Mittag–Leffler law. <i>Ecological Complexity</i> , 2021, 45, 100880.	2.9	39
25	Fractional stochastic modeling: New approach to capture more heterogeneity. <i>Chaos</i> , 2019, 29, 013118.	2.5	38
26	The study of the entropy generation in a thin film flow with variable fluid properties past over a stretching sheet. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401878952.	1.6	36
27	Backward bifurcation and sensitivity analysis for bacterial meningitis transmission dynamics with a nonlinear recovery rate. <i>Chaos, Solitons and Fractals</i> , 2020, 140, 110237.	5.1	35
28	A fractional order optimal 4D chaotic financial model with Mittag-Leffler law. <i>Chinese Journal of Physics</i> , 2020, 65, 38-53.	3.9	35
29	Optimal control application to an Ebola model. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2016, 6, 283-289.	1.2	34
30	Classical and contemporary fractional operators for modeling diarrhea transmission dynamics under real statistical data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 535, 122496.	2.6	34
31	Three-dimensional magnetohydrodynamic (MHD) flow of Maxwell nanofluid containing gyrotactic micro-organisms with heat source/sink. <i>AIP Advances</i> , 2018, 8, .	1.3	33
32	Boundary layer stagnation point flow of the Casson hybrid nanofluid over an unsteady stretching surface. <i>AIP Advances</i> , 2021, 11, .	1.3	31
33	Analysis of Hybrid Nanofluid Stagnation Point Flow over a Stretching Surface with Melting Heat Transfer. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-12.	1.1	31
34	A fractional model for predator-prey with omnivore. <i>Chaos</i> , 2019, 29, 013136.	2.5	30
35	Hall effect on Titania nanofluids thin film flow and radiative thermal behavior with different base fluids on an inclined rotating surface. <i>AIP Advances</i> , 2019, 9, .	1.3	28
36	Viscous dissipated hybrid nanofluid flow with Darcy–Forchheimer and forced convection over a moving thin needle. <i>AIP Advances</i> , 2020, 10, .	1.3	28

#	ARTICLE	IF	CITATIONS
37	Theoretical Analysis of Cu-H ₂ O, Al ₂ O ₃ -H ₂ O, and TiO ₂ -H ₂ O Nanofluid Flow Past a Rotating Disk with Velocity Slip and Convective Conditions. <i>Journal of Nanomaterials</i> , 2021, 2021, 1-10.	2.7	27
38	Mathematical modeling and stability analysis of Pine Wilt Disease with optimal control. <i>Scientific Reports</i> , 2017, 7, 3115.	3.3	26
39	A robust study on the listeriosis disease by adopting fractal-fractional operators. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 2016-2028.	6.4	25
40	Three non-Newtonian fluids flow considering thin film over an unsteady stretching surface with variable fluid properties. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401880736.	1.6	23
41	Three dimensional Darcy-Forchheimer radiated flow of single and multiwall carbon nanotubes over a rotating stretchable disk with convective heat generation and absorption. <i>AIP Advances</i> , 2019, 9, 035031.	1.3	22
42	Ab initio investigation of the physical properties of TI based chloroperovskites TlXCl ₃ (X = Ca) <i>Tj ETQq0 0 0 rBT /Overlock 10 Tf</i>	1.3	22
43	Analytical study of MHD mixed convection flow for Maxwell nanofluid with variable thermal conductivity and Soret and Dufour effects. <i>AIP Advances</i> , 2021, 11, .	1.3	19
44	Chaos in a 5-D hyperchaotic system with four wings in the light of non-local and non-singular fractional derivatives. <i>Chaos, Solitons and Fractals</i> , 2018, 116, 316-331.	5.1	18
45	Numerical simulation of the combined effects of thermophoretic motion and variable thermal conductivity on free convection heat transfer. <i>AIP Advances</i> , 2020, 10, .	1.3	18
46	Stable and functional solutions of the Klein-Fock-Gordon equation with nonlinear physical phenomena. <i>Physica Scripta</i> , 2021, 96, 055207.	2.5	18
47	Modeling and Analysis of Breast Cancer with Adverse Reactions of Chemotherapy Treatment through Fractional Derivative. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-19.	1.3	17
48	MODELING THE INFECTION DYNAMICS OF ONCHOCERCIASIS AND ITS TREATMENT. <i>Journal of Biological Systems</i> , 2017, 25, 247-277.	1.4	16
49	Modeling fractional-order dynamics of Syphilis via Mittag-Leffler law. <i>AIMS Mathematics</i> , 2021, 6, 8367-8389.	1.6	16
50	Chaotic Phenomena and Oscillations in Dynamical Behaviour of Financial System via Fractional Calculus. <i>Complexity</i> , 2022, 2022, 1-14.	1.6	16
51	Heat transfer in a permeable cavity filled with a ferrofluid under electric force and radiation effects. <i>AIP Advances</i> , 2019, 9, .	1.3	15
52	Analysis of 3D IS-LM macroeconomic system model within the scope of fractional calculus. <i>Chaos, Solitons and Fractals: X</i> , 2019, 2, 100007.	2.1	15
53	Steady laminar natural convection of nanofluid under the impact of magnetic field on two-dimensional cavity with radiation. <i>AIP Advances</i> , 2019, 9, .	1.3	15
54	Analysis of Zika virus dynamics with sexual transmission route using multiple optimal controls. <i>Scientific African</i> , 2020, 9, e00532.	1.5	15

#	ARTICLE	IF	CITATIONS
55	Connection-Based Multiplicative Zagreb Indices of Dendrimer Nanostars. Journal of Mathematics, 2021, 2021, 1-14.	1.0	15
56	A Theoretical Model for the Transmission Dynamics of the Buruli Ulcer with Saturated Treatment. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-14.	1.3	13
57	A fractional order dengue fever model in the context of protected travelers. AEJ - Alexandria Engineering Journal, 2022, 61, 927-936.	6.4	13
58	Magnetohydrodynamic Thin Film Flow through a Porous Stretching Sheet with the Impact of Thermal Radiation and Viscous Dissipation. Mathematical Problems in Engineering, 2022, 2022, 1-10.	1.1	13
59	On Analytical Solution of Time-Fractional Biological Population Model by means of Generalized Integral Transform with Their Uniqueness and Convergence Analysis. Journal of Function Spaces, 2022, 2022, 1-29.	0.9	12
60	Reproducing kernel Hilbert space method for the solutions of generalized Kuramoto-Sivashinsky equation. Journal of Taibah University for Science, 2019, 13, 661-669.	2.5	11
61	<i>Ab initio</i> investigation of structural, electronic, magnetic, elastic, and optical properties of Cs-based chloro-perovskites CsXCl ₃ (X = Be and Rh). AIP Advances, 2021, 11, .	1.3	11
62	Computing Connection-Based Topological Indices of Dendrimers. Journal of Chemistry, 2022, 2022, 1-15.	1.9	11
63	Heat Transfer Analysis of the MHD Stagnation Point Flow of a Non-Newtonian Tangent Hyperbolic Hybrid Nanofluid past a Non-Isothermal Flat Plate with Thermal Radiation Effect. Journal of Nanomaterials, 2022, 2022, 1-12.	2.7	11
64	Numerical Analysis of $\text{Cu} + \text{Al}$. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	8
65	Evaluating the Higher-Order Slip Consequence in Bioconvection Nanofluid Flow Configured by a Variable Thick Surface of Disk. Journal of Nanomaterials, 2022, 2022, 1-13.	2.7	8
66	Axisymmetric mixed convective propulsion of a non-Newtonian fluid through a ciliated tubule. AIP Advances, 2020, 10, .	1.3	7
67	Mathematical analysis of diarrhoea model with saturated incidence rate. Open Journal of Mathematical Sciences, 2019, 3(2019), 29-39.	0.7	7
68	On the transmission dynamics of Buruli ulcer in Ghana: Insights through a mathematical model. BMC Research Notes, 2015, 8, 656.	1.4	6
69	Dynamics on Effect of Prey Refuge Proportional to Predator in Discrete-Time Prey-Predator Model. Complexity, 2021, 2021, 1-12.	1.6	6
70	Algorithms for Multipolar Interval-Valued Neutrosophic Soft Set with Information Measures to Solve Multicriteria Decision-Making Problem. Computational Intelligence and Neuroscience, 2021, 2021, 1-29.	1.7	6
71	Modelling and Analysis of Virotherapy of Cancer Using an Efficient Hybrid Soft Computing Procedure. Complexity, 2022, 2022, 1-29.	1.6	6
72	Extremal Values of Variable Sum Exdeg Index for Conjugated Bicyclic Graphs. Journal of Chemistry, 2021, 2021, 1-11.	1.9	5

#	ARTICLE	IF	CITATIONS
73	Molecular Descriptor Analysis of Certain Isomeric Natural Polymers. Journal of Chemistry, 2021, 2021, 1-26.	1.9	4
74	Modelling Cultural Hereditary Transmission: Insight Through Optimal Control. Ecological Complexity, 2021, 45, 100890.	2.9	4
75	Computing LF-Metric Dimension of Generalized Gear Networks. Mathematical Problems in Engineering, 2021, 2021, 1-8.	1.1	4
76	Investigation of Three-Dimensional Condensation Film Problem over an Inclined Rotating Disk Using a Nonlinear Autoregressive Exogenous Model. Computational Intelligence and Neuroscience, 2022, 2022, 1-12.	1.7	4
77	Fractional Metric Dimension of Generalized Sunlet Networks. Journal of Mathematics, 2021, 2021, 1-7.	1.0	4
78	Mathematical Analysis of Two Waves of COVID-19 Disease with Impact of Vaccination as Optimal Control. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-19.	1.3	4
79	Studies of Connected Networks via Fractional Metric Dimension. Journal of Mathematics, 2022, 2022, 1-7.	1.0	4
80	Mathematical modeling and optimal control strategies of Buruli ulcer in possum mammals. AIMS Mathematics, 2021, 6, 9859-9881.	1.6	3
81	Computing Gutman Connection Index of Thorn Graphs. Journal of Mathematics, 2021, 2021, 1-13.	1.0	3
82	Numerical Solution of Schrödinger Equation by Crank-Nicolson Method. Mathematical Problems in Engineering, 2022, 2022, 1-11.	1.1	3
83	Mathematical Modeling of Carreau Fluid Flow and Heat Transfer Characteristics in the Renal Tubule. Journal of Mathematics, 2022, 2022, 1-14.	1.0	3
84	Computing Connection-Based Topological Indices of Sudoku Graphs. Journal of Mathematics, 2022, 2022, 1-19.	1.0	3
85	Some Upper Bounds on the First General Zagreb Index. Journal of Mathematics, 2022, 2022, 1-4.	1.0	2
86	A State-Dependent Impulsive Nonlinear System with Ratio-Dependent Action Threshold for Investigating the Pest-Natural Enemy Model. Complexity, 2022, 2022, 1-18.	1.6	2
87	Equal-Square Graphs Associated with Finite Groups. Journal of Mathematics, 2022, 2022, 1-6.	1.0	2
88	Comparative Analysis of Subdivided Hex-Derived Networks Using Structural Descriptors. Journal of Chemistry, 2022, 2022, 1-18.	1.9	2
89	On the Extremal Trees for Some Bond Incident Degree Indices with a Fixed Number of Segments. Journal of Chemistry, 2022, 2022, 1-29.	1.9	2
90	The asymptotic analysis of novel coronavirus disease via fractional-order epidemiological model. AIP Advances, 2022, 12, 035349.	1.3	2

#	ARTICLE	IF	CITATIONS
91	MHD Analysis of Couple Stress Hybrid Nanofluid Free Stream over a Spinning Darcy-Forchheimer Porous Disc under the Effect of Thermal Radiation. <i>Journal of Applied Mathematics</i> , 2021, 2021, 1-18.	0.9	2
92	Fault Tolerant Partition Resolvability in Convex Polytopes. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-12.	1.1	2
93	Topological Indices of Pent-Heptagonal Nanosheets via M-Polynomials. <i>Journal of Mathematics</i> , 2021, 2021, 1-13.	1.0	1
94	Michaelis-Menten-Type Prey Harvesting in Discrete Modified Leslie-Gower Predator-Prey Model. <i>Journal of Function Spaces</i> , 2022, 2022, 1-23.	0.9	1
95	Sum-Connectivity Coindex of Graphs under Operations. <i>Journal of Chemistry</i> , 2022, 2022, 1-14.	1.9	1
96	Analytical Assessment of MHD Flow of Nanoliquid Subject to Thermal Radiation and Brownian Effect. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-13.	2.7	1
97	On the Analytical Treatment for the Fractional-Order Coupled Partial Differential Equations via Fixed Point Formulation and Generalized Fractional Derivative Operators. <i>Journal of Function Spaces</i> , 2022, 2022, 1-23.	0.9	1
98	Approximate Analytical Study of Time-Dependent MHD Casson Hybrid Nanofluid over a Stretching Sheet and Considering Thermal Radiation. <i>Advances in Mathematical Physics</i> , 2022, 2022, 1-11.	0.8	1
99	Computing Connection Distance Index of Derived Graphs. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-15.	1.1	1
100	Enumeration of the Edge Weights of Symmetrically Designed Graphs. <i>Journal of Mathematics</i> , 2021, 2021, 1-15.	1.0	0
101	Comparative Study of Generalized Sum Graphs via Degree-Based Topological Indices. <i>Journal of Mathematics</i> , 2022, 2022, 1-15.	1.0	0
102	Pre-service Teachers' Perceptions of and Knowledge for Mathematical Modelling in Ghana. <i>Contemporary Mathematics and Science Education</i> , 2022, 3, ep22011.	0.7	0
103	Computing Bounds for General Randic Coindex of Sum Graphs. <i>Journal of Mathematics</i> , 2021, 2021, 1-17.	1.0	0
104	First General Zagreb Co-Index of Graphs under Operations. <i>Journal of Mathematics</i> , 2022, 2022, 1-11.	1.0	0
105	Dynamics of a Three-Patch Prey-Predator System with the Impact of Dispersal Speed Incorporating Strong Allee Effect on Double Prey. <i>Discrete Dynamics in Nature and Society</i> , 2022, 2022, 1-26.	0.9	0