Ebenezer Bonyah

List of Publications by Year
in descending order

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105	2,581	159585	233421
papers	citations	30 h-index	45 g-index

108	108	108	1321
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A robust study on the listeriosis disease by adopting fractal-fractional operators. AEJ - Alexandria Engineering Journal, 2022, 61, 2016-2028.	6.4	25
2	A fractional order dengue fever model in the context of protected travelers. AEJ - Alexandria Engineering Journal, 2022, 61, 927-936.	6.4	13
3	Modelling and Analysis of Virotherapy of Cancer Using an Efficient Hybrid Soft Computing Procedure. Complexity, 2022, 2022, 1-29.	1.6	6
4	Some Upper Bounds on the First General Zagreb Index. Journal of Mathematics, 2022, 2022, 1-4.	1.0	2
5	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
6	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
7	Modeling and Analysis of Breast Cancer with Adverse Reactions of Chemotherapy Treatment through Fractional Derivative. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-19.	1.3	17
8	Analysis of Hybrid Nanofluid Stagnation Point Flow over a Stretching Surface with Melting Heat Transfer. Mathematical Problems in Engineering, 2022, 2022, 1-12.	1.1	31
9	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
10	Equal-Square Graphs Associated with Finite Groups. Journal of Mathematics, 2022, 2022, 1-6.	1.0	2
11	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
12	Comparative Study of Generalized Sum Graphs via Degree-Based Topological Indices. Journal of Mathematics, 2022, 2022, 1-15.	1.0	0
13	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
14	Comparative Analysis of Subdivided Hex-Derived Networks Using Structural Descriptors. Journal of Chemistry, 2022, 2022, 1-18.	1.9	2
15	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
16	Pre-service Teachersâ€™ Perceptions of and Knowledge for Mathematical Modelling in Ghana. Contemporary Mathematics and Science Education, 2022, 3, ep22011.	0.7	0
17	Michaelis-Menten-Type Prey Harvesting in Discrete Modified Leslie-Gower Predator-Prey Model. Journal of Function Spaces, 2022, 2022, 1-23.	0.9	1
18	The asymptotic analysis of novel coronavirus disease via fractional-order epidemiological model. AIP Advances, 2022, 12, 035349.	1.3	2

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19	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
20	Sum-Connectivity Coindex of Graphs under Operations. Journal of Chemistry, 2022, 2022, 1-14.	1.9	1
21	Numerical Solution of SchrÃ¶dinger Equation by Crankâ€“Nicolson Method. Mathematical Problems in Engineering, 2022, 2022, 1-11.	1.1	3
22	Computing Connection-Based Topological Indices of Dendrimers. Journal of Chemistry, 2022, 2022, 1-15.	1.9	11
23	Analytical Assessment of MHD Flow of Nanoliquid Subject to Thermal Radiation and Brownian Effect. Journal of Nanomaterials, 2022, 2022, 1-13.	2.7	1
24	On the Analytical Treatment for the Fractional-Order Coupled Partial Differential Equations via Fixed Point Formulation and Generalized Fractional Derivative Operators. Journal of Function Spaces, 2022, 2022, 1-23.	0.9	1
25	Mathematical Modeling of Carreau Fluid Flow and Heat Transfer Characteristics in the Renal Tubule. Journal of Mathematics, 2022, 2022, 1-14.	1.0	3
26	First General Zagreb Co-Index of Graphs under Operations. Journal of Mathematics, 2022, 2022, 1-11.	1.0	0
27	Computing Connection-Based Topological Indices of Sudoku Graphs. Journal of Mathematics, 2022, 2022, 1-19.	1.0	3
28	Fault Tolerant Partition Resolvability in Convex Polytopes. Mathematical Problems in Engineering, 2022, 2022, 1-12.	1.1	2
29	Approximate Analytical Study of Time-Dependent MHD Casson Hybrid Nanofluid over a Stretching Sheet and Considering Thermal Radiation. Advances in Mathematical Physics, 2022, 2022, 1-11.	0.8	1
30	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
31	Chaotic Phenomena and Oscillations in Dynamical Behaviour of Financial System via Fractional Calculus. Complexity, 2022, 2022, 1-14.	1.6	16
32	Dynamics of a Three-Patch Prey-Predator System with the Impact of Dispersal Speed Incorporating Strong Allee Effect on Double Prey. Discrete Dynamics in Nature and Society, 2022, 2022, 1-26.	0.9	0
33	Studies of Connected Networks via Fractional Metric Dimension. Journal of Mathematics, 2022, 2022, 1-7.	1.0	4
34	Computing Connection Distance Index of Derived Graphs. Mathematical Problems in Engineering, 2022, 2022, 1-15.	1.1	1
35	Fractional optimal control dynamics of coronavirus model with Mittagâ€“Leffler law. Ecological Complexity, 2021, 45, 100880.	2.9	39
36	Mathematical modeling and optimal control strategies of Buruli ulcer in possum mammals. AIMS Mathematics, 2021, 6, 9859-9881.	1.6	3

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37	Modeling fractional-order dynamics of Syphilis via Mittag-Leffler law. AIMS Mathematics, 2021, 6, 8367-8389.	1.6	16
38	Stable and functional solutions of the Klein-Fock-Gordon equation with nonlinear physical phenomena. Physica Scripta, 2021, 96, 055207.	2.5	18
39	Analytical study of MHD mixed convection flow for Maxwell nanofluid with variable thermal conductivity and Soret and Dufour effects. AIP Advances, 2021, 11, .	1.3	19
40	Molecular Descriptor Analysis of Certain Isomeric Natural Polymers. Journal of Chemistry, 2021, 2021, 1-26.	1.9	4
41	Enumeration of the Edge Weights of Symmetrically Designed Graphs. Journal of Mathematics, 2021, 2021, 1-15.	1.0	0
42	Boundary layer stagnation point flow of the Casson hybrid nanofluid over an unsteady stretching surface. AIP Advances, 2021, 11, .	1.3	31
43	Modelling Cultural Hereditary Transmission: Insight Through Optimal Control. Ecological Complexity, 2021, 45, 100890.	2.9	4
44	Ab initio investigation of the physical properties of Tl based chloroperovskites TlXCl3 (X = Ca) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.3	22
45	Dynamics on Effect of Prey Refuge Proportional to Predator in Discrete-Time Prey-Predator Model. Complexity, 2021, 2021, 1-12.	1.6	6
46	Ab initio investigation of structural, electronic, magnetic, elastic, and optical properties of Cs-based chloro-perovskites CsXCl3 (X = Be and Rh). AIP Advances, 2021, 11, .	1.3	11
47	Computing Gutman Connection Index of Thorn Graphs. Journal of Mathematics, 2021, 2021, 1-13.	1.0	3
48	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
49	Computing LF-Metric Dimension of Generalized Gear Networks. Mathematical Problems in Engineering, 2021, 2021, 1-8.	1.1	4
50	Topological Indices of Pent-Heptagonal Nanosheets via M-Polynomials. Journal of Mathematics, 2021, 2021, 1-13.	1.0	1
51	Theoretical Analysis of Cu-H2O, Al2O3-H2O, and TiO2-H2O Nanofluid Flow Past a Rotating Disk with Velocity Slip and Convective Conditions. Journal of Nanomaterials, 2021, 2021, 1-10.	2.7	27
52	Numerical Analysis of <math xmlns="http://www.w3.org/1998/Math/MathML" id="M1"> <mtext>Cu</mtext> <mo>+</mo> <mrow> <msub> <mrow> <mtext>Al</mtext> </mrow> <mrow> <mn>2</mn> </mrow> </msub> <msub>. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	8
53	Fractional Metric Dimension of Generalized Sunlet Networks. Journal of Mathematics, 2021, 2021, 1-7.	1.0	4
54	Computing Bounds for General Randic Coindex of Sum Graphs. Journal of Mathematics, 2021, 2021, 1-17.	1.0	0

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55	Connection-Based Multiplicative Zagreb Indices of Dendrimer Nanostars. Journal of Mathematics, 2021, 2021, 1-14.	1.0	15
56	MHD Analysis of Couple Stress Hybrid Nanofluid Free Stream over a Spinning Darcy-Forchheimer Porous Disc under the Effect of Thermal Radiation. Journal of Applied Mathematics, 2021, 2021, 1-18.	0.9	2
57	Extremal Values of Variable Sum Exdeg Index for Conjugated Bicyclic Graphs. Journal of Chemistry, 2021, 2021, 1-11.	1.9	5
58	Backward bifurcation and sensitivity analysis for bacterial meningitis transmission dynamics with a nonlinear recovery rate. Chaos, Solitons and Fractals, 2020, 140, 110237.	5.1	35
59	Analysis of Zika virus dynamics with sexual transmission route using multiple optimal controls. Scientific African, 2020, 9, e00532.	1.5	15
60	Viscous dissipated hybrid nanoliquid flow with Darcyâ€“Forchheimer and forced convection over a moving thin needle. AIP Advances, 2020, 10, .	1.3	28
61	Entropy optimization in Darcyâ€“Forchheimer MHD flow of water based copper and silver nanofluids with Joule heating and viscous dissipation effects. AIP Advances, 2020, 10, .	1.3	40
62	Numerical simulation of the combined effects of thermophoretic motion and variable thermal conductivity on free convection heat transfer. AIP Advances, 2020, 10, .	1.3	18
63	Heat and mass transfer together with hybrid nanofluid flow over a rotating disk. AIP Advances, 2020, 10, .	1.3	120
64	Influences of Hall current and radiation on MHD micropolar non-Newtonian hybrid nanofluid flow between two surfaces. AIP Advances, 2020, 10, .	1.3	54
65	Dual solutions in MHD stagnation point flow of nanofluid induced by porous stretching/shrinking sheet with anisotropic slip. AIP Advances, 2020, 10, .	1.3	44
66	Axisymmetric mixed convective propulsion of a non-Newtonian fluid through a ciliated tubule. AIP Advances, 2020, 10, .	1.3	7
67	A fractional order optimal 4D chaotic financial model with Mittag-Leffler law. Chinese Journal of Physics, 2020, 65, 38-53.	3.9	35
68	Hall effect on Titania nanofluids thin film flow and radiative thermal behavior with different base fluids on an inclined rotating surface. AIP Advances, 2019, 9, .	1.3	28
69	Classical and contemporary fractional operators for modeling diarrhea transmission dynamics under real statistical data. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122496.	2.6	34
70	Heat transfer in a permeable cavity filled with a ferrofluid under electric force and radiation effects. AIP Advances, 2019, 9, .	1.3	15
71	Impact of thermal radiation on electrical MHD rotating flow of Carbon nanotubes over a stretching sheet. AIP Advances, 2019, 9, .	1.3	77
72	Darcy Forchheimer nanofluid thin film flow of SWCNTs and heat transfer analysis over an unsteady stretching sheet. AIP Advances, 2019, 9, .	1.3	63

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73	A fractional model for predator-prey with omnivore. Chaos, 2019, 29, 013136.	2.5	30
74	Analysis of 3D IS-LM macroeconomic system model within the scope of fractional calculus. Chaos, Solitons and Fractals: X, 2019, 2, 100007.	2.1	15
75	Reproducing kernel Hilbert space method for the solutions of generalized Kuramotoâ€“Sivashinsky equation. Journal of Taibah University for Science, 2019, 13, 661-669.	2.5	11
76	Steady laminar natural convection of nanofluid under the impact of magnetic field on two-dimensional cavity with radiation. AIP Advances, 2019, 9, .	1.3	15
77	Three dimensional Darcy-Forchheimer radiated flow of single and multiwall carbon nanotubes over a rotating stretchable disk with convective heat generation and absorption. AIP Advances, 2019, 9, 035031.	1.3	22
78	New approaches to the fractional dynamics of schistosomiasis disease model. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 373-393.	2.6	75
79	Hall current and thermophoresis effects on magnetohydrodynamic mixed convective heat and mass transfer thin film flow. Journal of Physics Communications, 2019, 3, 035009.	1.2	46
80	Modelling the effects of heavy alcohol consumption on the transmission dynamics of gonorrhea with optimal control. Mathematical Biosciences, 2019, 309, 1-11.	1.9	50
81	Fractional stochastic modeling: New approach to capture more heterogeneity. Chaos, 2019, 29, 013118.	2.5	38
82	On the coâ€infection of dengue fever and Zika virus. Optimal Control Applications and Methods, 2019, 40, 394-421.	2.1	66
83	Mathematical analysis of diarrhoea model with saturated incidence rate. Open Journal of Mathematical Sciences, 2019, 3(2019), 29-39.	0.7	7
84	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
85	Flow and heat transfer in water based liquid film fluids dispensed with graphene nanoparticles. Results in Physics, 2018, 8, 1143-1157.	4.1	56
86	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. AIP Advances, 2018, 8, .	1.3	39
87	Three non-Newtonian fluids flow considering thin film over an unsteady stretching surface with variable fluid properties. Advances in Mechanical Engineering, 2018, 10, 168781401880736.	1.6	23
88	The study of the entropy generation in a thin film flow with variable fluid properties past over a stretching sheet. Advances in Mechanical Engineering, 2018, 10, 168781401878952.	1.6	36
89	Simulation of bioconvection in the suspension of second grade nanofluid containing nanoparticles and gyrotactic microorganisms. AIP Advances, 2018, 8, .	1.3	77
90	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

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91	Chaos in a 5-D hyperchaotic system with four wings in the light of non-local and non-singular fractional derivatives. Chaos, Solitons and Fractals, 2018, 116, 316-331.	5.1	18
92	Radiative MHD thin film flow of Williamson fluid over an unsteady permeable stretching sheet. Heliyon, 2018, 4, e00825.	3.2	73
93	Slip flow of Eyring-Powell nanoliquid film containing graphene nanoparticles. AIP Advances, 2018, 8, .	1.3	70
94	Study of two-dimensional boundary layer thin film fluid flow with variable thermo-physical properties in three dimensions space. AIP Advances, 2018, 8, 105318.	1.3	45
95	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
96	Three-dimensional magnetohydrodynamic (MHD) flow of Maxwell nanofluid containing gyrotactic micro-organisms with heat source/sink. AIP Advances, 2018, 8, .	1.3	33
97	MODELING THE INFECTION DYNAMICS OF ONCHOCERCIASIS AND ITS TREATMENT. Journal of Biological Systems, 2017, 25, 247-277.	1.4	16
98	Mixed convection in gravity-driven thin film non-Newtonian nanofluids flow with gyrotactic microorganisms. Results in Physics, 2017, 7, 4033-4049.	4.1	86
99	Mathematical modeling and stability analysis of Pine Wilt Disease with optimal control. Scientific Reports, 2017, 7, 3115.	3.3	26
100	Modelling of Rabies Transmission Dynamics Using Optimal Control Analysis. Journal of Applied Mathematics, 2017, 2017, 1-23.	0.9	53
101	A theoretical model for Zika virus transmission. PLoS ONE, 2017, 12, e0185540.	2.5	69
102	Optimal control application to an Ebola model. Asian Pacific Journal of Tropical Biomedicine, 2016, 6, 283-289.	1.2	34
103	Mathematical modeling of Zika virus. Asian Pacific Journal of Tropical Disease, 2016, 6, 673-679.	0.5	55
104	On the transmission dynamics of Buruli ulcer in Ghana: Insights through a mathematical model. BMC Research Notes, 2015, 8, 656.	1.4	6
105	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