Essam M Abulwafa

List of Publications by Year
in descending order

60 papers	762 citations	623734 14 h-index	580821 25 g-index
62 all docs	62 docs citations	62 times ranked	376 citing authors

#	Article	IF	Citations
1	The solution of nonlinear coagulation problem with mass loss. Chaos, Solitons and Fractals, 2006, 29, 313-330.	5.1	112
2	Time-fractional KdV equation: formulation andÂsolution using variational methods. Nonlinear Dynamics, 2011, 65, 55-63.	5.2	70
3	Time-fractional KdV equation for plasma of two different temperature electrons and stationary ion. Physics of Plasmas, 2011, 18, .	1.9	45
4	Nonlinear fluid flows in pipe-like domain problem using variational-iteration method. Chaos, Solitons and Fractals, 2007, 32, 1384-1397.	5.1	42
5	Formulation and solution of space–time fractional Boussinesq equation. Nonlinear Dynamics, 2015, 80, 167-175.	5.2	42
6	The Pomraning-Eddington approximation to diffusion of light in turbid materials. Waves in Random and Complex Media, 1994, 4, 127-138.	1.5	27
7	The extended homogeneous balance method and its applications for a class of nonlinear evolution equations. Chaos, Solitons and Fractals, 2007, 33, 1512-1522.	5.1	24
8	Super-soliton dust-acoustic waves in four-component dusty plasma using non-extensive electrons and ions distributions. Physics of Plasmas, 2017, 24, .	1.9	23
9	The fractional Fokker–Planck equation on comb-like model. Physica A: Statistical Mechanics and Its Applications, 2003, 323, 237-248.	2.6	22
10	Time-fractional study of electron acoustic solitary waves in plasma of cold electron and two isothermal ions. Journal of Plasma Physics, 2012, 78, 641-649.	2.1	20
11	Arbitrary amplitude dust-acoustic waves in four-component dusty plasma using non-extensive electrons and ions distributions-soliton solution. Physics of Plasmas, 2017, 24, .	1.9	19
12	Radiative-transfer in a linearly-anisotropic spherical medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 1993, 49, 165-175.	2.3	18
13	Ion-acoustic waves in unmagnetized collisionless weakly relativistic plasma of warm-ion and isothermal-electron using time-fractional KdV equation. Advances in Space Research, 2012, 49, 1721-1727.	2.6	16
14	Maximum-entropy approach with higher moments for solving Fokker–Planck equation. Physica A: Statistical Mechanics and Its Applications, 2002, 315, 480-492.	2.6	15
15	Rogue waves for Kadomstev-Petviashvili equation in electron-positron-ion plasma. Astrophysics and Space Science, 2014, 353, 501-506.	1.4	15
16	Anisotropic radiation transfer in a plane medium with specularly-reflecting boundary conditions. Journal of Quantitative Spectroscopy and Radiative Transfer, 1992, 47, 221-227.	2.3	14
17	Conductive-radiative heat transfer in an inhomogeneous slab with directional reflecting boundaries. Journal Physics D: Applied Physics, 1999, 32, 1626-1632.	2.8	14
18	Fractional (space–time) diffusion equation on comb-like model. Chaos, Solitons and Fractals, 2004, 20, 1113-1120.	5.1	14

#	Article	IF	Citations
19	Time-fractional KdV equation for electron-acoustic waves in plasma of cold electron and two different temperature isothermal ions. Astrophysics and Space Science, 2011, 333, 269-276.	1.4	13
20	Time-fractional Burgers equation for dust acoustic waves in a two different temperatures dusty plasma. Astrophysics and Space Science, 2013, 346, 383-393.	1.4	12
21	Ion-acoustic waves in plasma of warm ions and isothermal electrons using time-fractional KdV equation. Chinese Physics B, 2011, 20, 040508.	1.4	11
22	Effect of space-time fractional on the ion acoustic waves in electron-positron-ion plasma. Astrophysics and Space Science, 2014, 350, 591-598.	1.4	11
23	Space–time fractional KdV–Burgers equation for dust acoustic shock waves in dusty plasma with non-thermal ions. Chinese Physics B, 2014, 23, 070505.	1.4	11
24	The variational Pomraning-Eddington method for a plane medium with specular boundaries. Physica Scripta, 1994, 50, 135-139.	2.5	9
25	The Variational-Iteration Method to Solve the Nonlinear Boltzmann Equation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 131-139.	1.5	9
26	Transient radiative heat transfer through thin films using Laguerre–Galerkin method. Journal Physics D: Applied Physics, 2003, 36, 3014-3026.	2.8	8
27	Radiative transfer in a spherical inhomogeneous medium with anisotropic scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 1991, 46, 31-40.	2.3	7
28	Radiative transfer in inhomogeneous solid cylinder with anisotropic scattering using Galerkin method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 66, 487-500.	2.3	7
29	Application of the Exp-Functionmethod to the Riccati Equation and New Exact Solutions with Three Arbitrary Functions of Quantum Zakharov Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 646-652.	1.5	7
30	An improved variational iteration method for solving coupled KdV and Boussinesq-like B(m,n) equations. Chaos, Solitons and Fractals, 2009, 39, 1324-1334.	5.1	7
31	Solitary, explosive and periodic solutions for electron acoustic solitary waves with non-thermal hot ions. Advances in Space Research, 2011, 48, 1578-1590.	2.6	7
32	Self-similar solutions for some nonlinear evolution equations: KdV, mKdV and Burgers equations. Journal of the Association of Arab Universities for Basic and Applied Sciences, 2016, 19, 44-51.	1.0	7
33	A fully nonlinear solitary wave in six-component dusty cometary plasma. Physica Scripta, 2021, 96, 095603.	2.5	7
34	The diffusion-drift equation on comb-like structure. Physica A: Statistical Mechanics and Its Applications, 2002, 303, 27-34.	2.6	6
35	Time-fractional effect on pressure waves propagating through a fluid filled circular long elastic tube. Egyptian Journal of Basic and Applied Sciences, 2016, 3, 35-43.	0.6	6
36	Arbitrary amplitude double-layers in four-component dusty plasma with q-non-extensive electrons and ions. Physics of Plasmas, 2017, 24, 053704.	1.9	6

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37	Plasma Parameters Effects on Dust Acoustic Solitary Waves in Dusty Plasmas of Four Components. Advances in Mathematical Physics, 2018, 2018, 1-11.	0.8	6
38	Formulation and Solution of Space-Time Fractional KdV-Burgers Equation. Computational Methods in Science and Technology, 2013, 19, 235-243.	0.3	5
39	Radiation transfer in a diffuse and specular reflecting slab with Rayleigh scattering. Astrophysics and Space Science, 1992, 189, 279-287.	1.4	4
40	CONDUCTIVE–RADIATIVE HEAT TRANSFER IN AN INHOMOGENEOUS PLANE-PARALLEL MEDIUM USING GALERKIN-ITERATIVE METHOD. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 61, 583-589.	2.3	4
41	Integral form of radiative transfer equation in inhomogeneous cylindrical medium with anisotropic scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 62, 755-763.	2.3	4
42	Variational-Iterative Method for Conductive-Radiative Heat Transfer in Spherical Inhomogeneous Medium. Journal of Thermophysics and Heat Transfer, 2000, 14, 612-615.	1.6	4
43	Nonlinear ion acoustic waveforms for Kadomstev–Petviashvili equation. Astrophysics and Space Science, 2013, 346, 141-147.	1.4	4
44	Propagation features of head-on collision dust acoustic solitary waves in four-component quantum plasmas. Waves in Random and Complex Media, 2020, 30, 704-721.	2.7	4
45	Polarized radiative transfer in an aerosol medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 1991, 46, 523-529.	2.3	3
46	Radiative transfer in turbid media with specular reflection at boundaries. Journal of Quantitative Spectroscopy and Radiative Transfer, 1994, 52, 693-706.	2.3	3
47	Radiative transfer in a spherical medium by the variational Pomraning-Eddington technique. Journal of Quantitative Spectroscopy and Radiative Transfer, 1997, 58, 101-114.	2.3	3
48	GALERKIN TECHNIQUE FOR RADIATIVE TRANSFER IN A PLANE-PARALLEL MEDIUM. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 61, 287-298.	2.3	3
49	Formation of double-layers and super-solitons in a six-component cometary dusty plasma. European Physical Journal D, 2022, 76, .	1.3	3
50	Variational-Iterative Method for Conductive-Radiative Transfer in an Inhomogenous Plane-Parallel Medium. Physica Scripta, 1999, 60, 54-59.	2.5	2
51	Heat transfer in a spherical turbid medium with conduction and radiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 75, 647-659.	2.3	2
52	Propagation of Solitary Waves and Double-Layers in Electron–Positron Pair Plasmas with Stationary Ions and Nonextensive Electrons. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	1.6	2
53	Time-dependent radiative transfer through thin films: Chapman–Enskog-maximum entropy method. Journal Physics D: Applied Physics, 2005, 38, 3469-3479.	2.8	1
54	Pomraning-Eddington approximation for radiative transfer in a spherical turbid medium. Waves in Random and Complex Media, 1996, 6, 189-196.	1.5	1

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55	Dust-ion acoustic rogue waves in six-component dusty plasma. Waves in Random and Complex Media, 0, , 1-16.	2.7	1
56	The polarization of radiation reflected diffusely by an inhomogeneous plane medium. Astrophysics and Space Science, 1991, 184, 247-259.	1.4	0
57	Pomraningâ€"Eddington approximation for radiative transfer in a homogeneous solid cylinder. Waves in Random and Complex Media, 1999, 9, 37-52.	1.5	0
58	New Exact Travelling Wave Solutions of Nonlinear Coagulation Problem with Mass Loss. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 209-214.	1.5	0
59	Nonlinear Waveforms for Ion-Acoustic Waves in Weakly Relativistic Plasma of Warm Ion-Fluid and Isothermal Electrons. Advances in Mathematical Physics, 2012, 2012, 1-12.	0.8	0
60	The existence and propagation of dust acoustic waves in quantum four-component plasma. Waves in Random and Complex Media, 0, , 1-15.	2.7	0