Mustafa M Selim

List of Publications by Year
in descending order

46 papers	512 citations	686830 13 h-index	794141 19 g-index
47 all docs	47 docs citations	47 times ranked	201 citing authors

#	Article	IF	Citations
1	Effects of trapped ions concentration on the dynamics of dustâ€acoustic periodic travelling waves in dusty plasmas. Contributions To Plasma Physics, 2022, 62, .	0.5	3
2	A full probabilistic solution of a stochastic red blood cells model using RVT technique. European Physical Journal Plus, 2021, 136, 1.	1.2	2
3	Investigation of dust ion acoustic shock waves in dusty plasma using Cellular Neural Network. Physica Scripta, 2021, 96, 095606.	1.2	6
4	Propagation of dust acoustic waves in multi-components plasma with random parameters. European Physical Journal Plus, 2021, 136, 1.	1.2	2
5	A general probabilistic solution of randomized radioactive decay chain (RDC) model using RVT technique. European Physical Journal Plus, 2020, 135, 1.	1.2	12
6	Overtaking collisions of oblique isothermal <scp>ionâ€acoustic</scp> multisolitons in <scp>ultraâ€relativistic</scp> degenerate dense magnetoplasmas. Contributions To Plasma Physics, 2020, 60, e202000044.	0.5	9
7	A comprehensive probabilistic analysis of approximate SIRâ€type epidemiological models via full randomized discreteâ€time Markov chain formulation with applications. Mathematical Methods in the Applied Sciences, 2020, 43, 8204-8222.	1.2	15
8	Cluster decay half-lives and preformation probabilities. Physica Scripta, 2020, 95, 075303.	1.2	8
9	Effects of chemical potentials on isothermal ion-acoustic solitary waves and their three-dimensional instability in a magnetized ultra-relativistic degenerate multicomponent plasma. Physics of Plasmas, 2020, 27, .	0.7	12
10	Semi-analytic calculations of barrier penetration and alpha particle preformation probabilities. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 055105.	1.4	7
11	Three-Dimensional Isothermal Ion Acoustic Shock Waves in Ultra-Relativistic Degenerate Electronâ€“Positronâ€“Ion Magnetoplasmas. Plasma Physics Reports, 2020, 46, 435-442.	0.3	5
12	Cosmological evolution of Tsallis holographic dark energy model in LTB inhomogeneous gravity. International Journal of Modern Physics D, 2020, 29, 2050023.	0.9	2
13	Nonlinear rarefactive isothermal ion acoustic waves in magnetized ultrarelativistic degenerate plasmas. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2020, 75, 921-932.	0.7	6
14	An approximate probabilistic solution of a random SIR-type epidemiological model using RVT technique. Applied Mathematics and Computation, 2019, 361, 144-156.	1.4	8
15	A complete probabilistic solution for a stochastic Milne problem of radiative transfer using KLE-RVT technique. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 232, 54-65.	1.1	10
16	Holographic dark energy models in LTB inhomogeneous universe. Journal of Astrophysics and Astronomy, 2019, 40, 1.	0.4	1
17	Solutions of nonplanar KP-equations for dusty plasma system with GE-method. Physics of Plasmas, 2018, 25, .	0.7	11
18	Solution of the finite Milne problem in stochastic media with RVT Technique. European Physical Journal Plus, 2017, 132, 1.	1.2	18

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19	Propagation of cylindrical ion acoustic waves in a plasma with q-nonextensive electrons with nonthermal distribution. European Physical Journal Plus, 2016, 131, 1.	1.2	12
20	Spherical ion acoustic waves in pair ion plasmas with nonthermal electrons. European Physical Journal Plus, 2016, 131, 1.	1.2	17
21	Nonlinear Isothermal Acoustic Wave Propagation in Quantum Degenerate Electron–Positron–Ion Plasmas. IEEE Transactions on Plasma Science, 2016, 44, 2901-2906.	0.6	13
22	Polarized-radiation transfer in stochastic finite planar atmospheric media. Journal of Taibah University for Science, 2016, 10, 242-250.	1.1	0
23	Spherical nonlinear ion-acoustic solitary waves in Titan's atmosphere. Astrophysics and Space Science, 2016, 361, 1.	0.5	5
24	Nonplanar dynamics of variable size dust grains in nonextensive dusty plasma. Physics of Plasmas, 2015, 22, .	0.7	15
25	Solution of the stochastic generalized shallow-water wave equation using RVT technique. European Physical Journal Plus, 2015, 130, 1.	1.2	16
26	Effect of dust-charge fluctuations on dust acoustic solitary waves in an inhomogeneous dusty plasma with nonextensive electrons. Physics of Plasmas, 2015, 22, .	0.7	16
27	Nonlinear dust acoustic rogue waves in a two temperature charged dusty grains plasma. Astrophysics and Space Science, 2015, 359, 1.	0.5	14
28	Behaviour of f(T) dark energy model in fractal cosmology. European Physical Journal Plus, 2015, 130, 1.	1.2	9
29	Bifurcations of nonlinear ion-acoustic travelling waves in a multicomponent magnetoplasma with superthermal electrons. Astrophysics and Space Science, 2015, 360, 1.	0.5	57
30	Linear and nonlinear dust acoustic waves in an inhomogeneous magnetized dusty plasma with nonextensive electrons. Physics of Plasmas, 2014, 21, 073710.	0.7	20
31	Propagation of cylindrical acoustic waves in dusty plasma with positive dust. Astrophysics and Space Science, 2014, 353, 535-542.	0.5	13
32	Ion-acoustic waves in a degenerate multicomponent magnetoplasma. Journal of Plasma Physics, 2013, 79, 163-168.	0.7	11
33	A general analytical solution for the stochastic Milne problem using Karhunen–Loeve (K–L) expansion. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 125, 84-92.	1.1	8
34	Solution of the stochastic radiative transfer equation with Rayleigh scattering using RVT technique. Applied Mathematics and Computation, 2012, 218, 7193-7203.	1.4	49
35	The Milne problem in a continuous stochastic planar medium with Gaussian statistics. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2382-2389.	1.1	3
36	A developed solution of the stochastic Milne problem using probabilistic transformations. Applied Mathematics and Computation, 2010, 216, 2910-2919.	1.4	14

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37	Solution of the stochastic transport equation of neutral particles with anisotropic scattering using RVT technique. Applied Mathematics and Computation, 2009, 213, 250-261.	1.4	29
38	Neutron transport through semi-infinite continuous stochastic media using Gaussian statistics. Annals of Nuclear Energy, 2008, 35, 1613-1620.	0.9	10
39	Transport Of Neutral Particles In A Finite Continuous Stochastic Medium With Gaussian Statistics. Transport Theory and Statistical Physics, 2008, 37, 460-482.	0.4	7
40	Neutral Particle Transport Through a Stochastically Inhomogeneous Medium with the Gaussian Statistics of the Extinction Function. Transport Theory and Statistical Physics, 2004, 33, 279-297.	0.4	7
41	Title is missing!. European Physical Journal D, 2003, 53, 449-460.	0.4	14
42	Tunneling Across an Inhomogeneous Delta-Barrier. European Physical Journal D, 2001, 51, 829-852.	0.4	0
43	Milne problem in stochastic plane medium with linear anisotropic scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 67, 259-272.	1.1	10
44	Stochastic radiative transfer in a finite plane with anisotropic scattering in a binary Markovian mixture. Waves in Random and Complex Media, 1999, 9, 327-340.	1.5	4
45	Dust-acoustic solitary and periodic waves in a plasma with ion distribution with trapped particles. Radiation Effects and Defects in Solids, 0, , 1-16.	0.4	2
46	Ion-acoustic multisolitons in pair-ion plasmas containing degenerate electrons: overtaking collisions at critical compositions. Waves in Random and Complex Media, 0, , 1-17.	1.6	0