# Essam M Abulwafa

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Formation of double-layers and super-solitons in a six-component cometary dusty plasma. European Physical Journal D, 2022, 76, . | 1.3 | 3 |
| 2 | A fully nonlinear solitary wave in six-component dusty cometary plasma. Physica Scripta, 2021, 96, 095603. | 2.5 | 7 |
| 3 | 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 |
| 4 | Propagation of Solitary Waves and Double-Layers in Electronâ€"Positron Pair Plasmas with Stationary Ions and Nonextensive Electrons. International Journal of Applied and Computational Mathematics, 2019, 5, 1. | 1.6 | 2 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 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 | 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 |
| 10 | 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 |
| 11 | Formulation and solution of spaceâ€"time fractional Boussinesq equation. Nonlinear Dynamics, 2015, 80, 167-175. | 5.2 | 42 |
| 12 | 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 |
| 13 | Spaceâ€"time fractional KdVâ€"Burgers equation for dust acoustic shock waves in dusty plasma with non-thermal ions. Chinese Physics B, 2014, 23, 070505. | 1.4 | 11 |
| 14 | Rogue waves for Kadomstev-Petviashvili equation in electron-positron-ion plasma. Astrophysics and Space Science, 2014, 353, 501-506. | 1.4 | 15 |
| 15 | 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 |
| 16 | Nonlinear ion acoustic waveforms for Kadomstevâ€"Petviashvili equation. Astrophysics and Space Science, 2013, 346, 141-147. | 1.4 | 4 |
| 17 | Formulation and Solution of Space-Time Fractional KdV-Burgers Equation. Computational Methods in Science and Technology, 2013, 19, 235-243. | 0.3 | 5 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | Time-fractional KdV equation: formulation andÂsolution using variational methods. Nonlinear Dynamics, 2011, 65, 55-63. | 5.2 | 70 |
| 23 | Time-fractional KdV equation for electron-acoustic waves inÂplasma ofÂcold electron and two different temperature isothermal ions. Astrophysics and Space Science, 2011, 333, 269-276. | 1.4 | 13 |
| 24 | 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 |
| 25 | Time-fractional KdV equation for plasma of two different temperature electrons and stationary ion. Physics of Plasmas, 2011, 18, . | 1.9 | 45 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 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 | Nonlinear fluid flows in pipe-like domain problem using variational-iteration method. Chaos, Solitons and Fractals, 2007, 32, 1384-1397. | 5.1 | 42 |
| 31 | 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 |
| 32 | The solution of nonlinear coagulation problem with mass loss. Chaos, Solitons and Fractals, 2006, 29, 313-330. | 5.1 | 112 |
| 33 | Time-dependent radiative transfer through thin films: Chapmanâ€“Enskog-maximum entropy method. Journal Physics D: Applied Physics, 2005, 38, 3469-3479. | 2.8 | 1 |
| 34 | Fractional (spaceâ€“time) diffusion equation on comb-like model. Chaos, Solitons and Fractals, 2004, 20, 1113-1120. | 5.1 | 14 |
| 35 | The fractional Fokkerâ€“Planck equation on comb-like model. Physica A: Statistical Mechanics and Its Applications, 2003, 323, 237-248. | 2.6 | 22 |
| 36 | Transient radiative heat transfer through thin films using Laguerreâ€“Galerkin method. Journal Physics D: Applied Physics, 2003, 36, 3014-3026. | 2.8 | 8 |

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|---|---|---|---|
| 37 | The diffusion-drift equation on comb-like structure. Physica A: Statistical Mechanics and Its Applications, 2002, 303, 27-34. | 2.6 | 6 |
| 38 | Maximum-entropy approach with higher moments for solving Fokkerâ€"Planck equation. Physica A: Statistical Mechanics and Its Applications, 2002, 315, 480-492. | 2.6 | 15 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Variational-Iterative Method for Conductive-Radiative Transfer in an Inhomogenous Plane-Parallel Medium. Physica Scripta, 1999, 60, 54-59. | 2.5 | 2 |
| 43 | Conductive-radiative heat transfer in an inhomogeneous slab with directional reflecting boundaries. Journal Physics D: Applied Physics, 1999, 32, 1626-1632. | 2.8 | 14 |
| 44 | Pomraningâ€"Eddington approximation for radiative transfer in a homogeneous solid cylinder. Waves in Random and Complex Media, 1999, 9, 37-52. | 1.5 | 0 |
| 45 | GALERKIN TECHNIQUE FOR RADIATIVE TRANSFER IN A PLANE-PARALLEL MEDIUM. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 61, 287-298. | 2.3 | 3 |
| 46 | CONDUCTIVEâ€"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 |
| 47 | 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 |
| 48 | 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 |
| 49 | Pomraning-Eddington approximation for radiative transfer in a spherical turbid medium. Waves in Random and Complex Media, 1996, 6, 189-196. | 1.5 | 1 |
| 50 | The variational Pomraning-Eddington method for a plane medium with specular boundaries. Physica Scripta, 1994, 50, 135-139. | 2.5 | 9 |
| 51 | Radiative transfer in turbid media with specular reflection at boundaries. Journal of Quantitative Spectroscopy and Radiative Transfer, 1994, 52, 693-706. | 2.3 | 3 |
| 52 | The Pomraning-Eddington approximation to diffusion of light in turbid materials. Waves in Random and Complex Media, 1994, 4, 127-138. | 1.5 | 27 |
| 53 | Radiative-transfer in a linearly-anisotropic spherical medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 1993, 49, 165-175. | 2.3 | 18 |
| 54 | Radiation transfer in a diffuse and specular reflecting slab with Rayleigh scattering. Astrophysics and Space Science, 1992, 189, 279-287. | 1.4 | 4 |

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|---|---|---|---|
| 55 | 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 |
| 56 | Polarized radiative transfer in an aerosol medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 1991, 46, 523-529. | 2.3 | 3 |
| 57 | Radiative transfer in a spherical inhomogeneous medium with anisotropic scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 1991, 46, 31-40. | 2.3 | 7 |
| 58 | The polarization of radiation reflected diffusely by an inhomogeneous plane medium. Astrophysics and Space Science, 1991, 184, 247-259. | 1.4 | 0 |
| 59 | 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 |
| 60 | Dust-ion acoustic rogue waves in six-component dusty plasma. Waves in Random and Complex Media, 0, , 1-16. | 2.7 | 1 |