

List of Publications for the period (29-08-2022 to 19-08-2023)

1. Abdelwahed, H. G., A. F. Alsarhana, E. K. El-Shewy, and Mahmoud AE Abdelrahman. "Characteristics of New Stochastic Solitonic Solutions for the Chiral Type of Nonlinear Schrödinger Equation." *Fractal and Fractional* 7, no. 6 (2023): 461. <https://doi.org/10.3390/fractalfract7060461>
2. Abdelwahed, H. G. "Some electrostatic structures of the mKP equation for a nonthermal plasma system by a unified solver technique." *Journal of Taibah University for Science* 17, no. 1 (2023): 2210347. <https://doi.org/10.1080/16583655.2023.2210347>
3. Abdelwahed, H. G., A. F. Alsarhana, E. K. El-Shewy, and Mahmoud AE Abdelrahman. "The Stochastic Structural Modulations in Collapsing Maccari's Model Solitons." *Fractal and Fractional* 7, no. 4 (2023): 290. <https://doi.org/10.3390/fractalfract7040290>
4. Abdelwahed, H. G., A. F. Alsarhana, E. K. El-Shewy, and Mahmoud AE Abdelrahman. "Higher-Order Dispersive and Nonlinearity Modulations on the Propagating Optical Solitary Breather and Super Huge Waves." *Fractal and Fractional* 7, no. 2 (2023): 127. <https://doi.org/10.3390/fractalfract7020127>
5. Abdelwahed, H. G., A. F. Alsarhana, E. K. El-Shewy, and Mahmoud AE Abdelrahman. "Dynamical energy effects in subsonic collapsing electrostatic Langmuir soliton." *Physics of Fluids* 35, no. 3 (2023). <https://doi.org/10.1063/5.0141228>
6. Abdelwahed, Hesham G., Emad K. El-Shewy, Mahmoud AE Abdelrahman, and Salim S. Alghanim. "The noise sense effects on the characteristic nonlinearly Schrödinger equation solitary propagations." *Journal of Low*

Frequency Noise, Vibration and Active Control 42, no. 2 (2023): 818-825.
<https://doi.org/10.1177/14613484221122114>

7. Azzam, Maged A., H. G. Abdelwahed, Emad K. El-Shewy, and Mahmoud AE Abdelrahman. "Langmuir Forcing and Collapsing Subsonic Density Cavities via Random Modulations." *Symmetry* 15, no. 8 (2023): 1558.
<https://doi.org/10.3390/sym15081558>
8. Abdelwahed, H. G., Mahmoud AE Abdelrahman, A. F. Alsarhana, and Kamel Mohamed. "Investigation of the Ripa Model via NHRS Scheme with Its Wide-Ranging Applications." *Fractal and Fractional* 6, no. 12 (2022): 745.
<https://doi.org/10.3390/fractalfract6120745>
9. Abdelwahed, H. G., E. K. El-Shewy, S. Alghanim, and Mahmoud AE Abdelrahman. "On the physical fractional modulations on Langmuir plasma structures." *Fractal and Fractional* 6, no. 8 (2022): 430.
<https://doi.org/10.3390/fractalfract6080430>
10. Abdelwahed, H. G., E. K. El-Shewy, R. Sabry, and Mahmoud AE Abdelrahman. "Characteristics of stochastic Langmuir wave structures in presence of Itô sense." *Results in Physics* 37 (2022): 105435.
<https://doi.org/10.1016/j.rinp.2022.105435>
11. Alkhidhr, Hanan A., H. G. Abdelwahed, Mahmoud AE Abdelrahman, and S. Alghanim. "Some solutions for a stochastic NLSE in the unstable and higher order dispersive environments." *Results in Physics* 34 (2022): 105242.
<https://doi.org/10.1016/j.rinp.2022.105242>
12. Abdelwahed, H. G., E. K. El-Shewy, S. Alghanim, and Mahmoud AE Abdelrahman. "Modulations of some physical parameters in a nonlinear Schrödinger type equation in fiber communications." *Results in Physics* 38 (2022): 105548. <https://doi.org/10.1016/j.rinp.2022.105548>

13. Abdelwahed, H. G., E. K. El-Shewy, Mahmoud AE Abdelrahman, S. Alghanim, A. F. Alsarhan, and A. A. El-Rahman. "The nonextensive effects on the supersoliton structure in critical plasma state." *Chinese Journal of Physics* 77 (2022): 1987-1996. <https://doi.org/10.1016/j.cjph.2021.12.003>
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15. Alshammari, Majed, Turki Alotaibi, Moteb Alotaibi, and Ali K. Ismael. "Influence of Charge Transfer on Thermoelectric Properties of Endohedral Metallofullerene (EMF) Complexes." *Energies* 16, no. 11 (2023): 4342. <https://doi.org/10.3390/en16114342>
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