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- Adel Darwish, Hamdy M. Ahmed1, Medhat Ammar, Mohammed H. Ali, and Ahmed H. Arnous, "SOLITONS AND OTHER SOLUTIONS FOR THE (2+1)-DIMENSIONAL HEISENBERG FERROMAGNETIC SPIN CHAIN EQUATION USING IMPROVED MODIFIED EXTENDED TANH-FUNCTION METHOD ", Advances in Mathematics: Scientific Journal 10 (2021), no.11, 3491–3504.
- Adel Darwish , Hamdy M. Ahmed , Medhat Ammar , Mohammed H. Ali , Ahmed H. Arnous, "General Solitons and other solutions for coupled system of nonlinear Schrödinger's equation in magneto-optic waveguides with anti-cubic law nonlinearity by using improved modified extended tanh-function method ", Optik, 35 (2021), Number 13, 2150168.
- Mohammed H. Ali , Hassan M. El-Owaidy , Hamdy M. Ahmed , Ahmed A. El-Deeb , Islam Samir , " Solitons and other wave solutions for (2+1)-dimensional perturbed nonlinear Schrödinger equation by modified extended direct algebraic method", Journal of Optics, (2023) 1-9.
- Mohammed H. Ali , Hassan M. El-Owaidy , Hamdy M. Ahmed , Ahmed A. El-Deeb , Islam Samir , " Analytic Wave Solutions of Nonlinear Maccari System Using Modified Extended Mapping Method", International Journal of Theoretical Physics (2023) 62:203.
- Mohammed H. Ali , Hassan M. El-Owaidy , Hamdy M. Ahmed , Ahmed A. El-Deeb , Islam Samir , Construction of solitons in nano optical fibers with dual-power law nonlinearity using MEDAM", Optical and Quantum Electronics (2023) 55:1220.
- Mohammed H. Ali , Hassan M. El-Owaidy , Hamdy M. Ahmed , Ahmed A. El-Deeb , Islam Samir , " Optical solitons and complexitons for generalized Schrödinger–Hirota model by the modified extended direct algebraic method", Optical and Quantum Electronics (2023) 55:675.
- Mohammed H. Ali, Hassan M. El-Owaidy, Hamdy M. Ahmed, Ahmed A. El-Deeb, Islam Samir, "Optical solitons for fourth order nonlinear Schrödinger's equation with cubic– quintic–septic–nonic nonlinearity using improved modified extended tanh-function scheme ", Ain Shams Engineering Journal, 15 (2024) 102413.
- Mohammed H. Ali , Hassan M. El-Owaidy , Hamdy M. Ahmed , Ahmed A. El-Deeb , Islam Samir , " New analytic wave solutions to (2 + 1)-dimensional Kadomtsev–Petviashvili–

Benjamin–Bona–Mahony equation using the modified extended mapping method", Optical and Quantum Electronics (2024) 56:320.

• Mohammed H. Ali, Hassan M. El-Owaidy, Hamdy M. Ahmed, Ahmed A. El-Deeb, Islam Samir, "Exploration new solitons to generalized nonlinear Schrödinger equation with Kudryashov's dual form of generalized non-local nonlinearity using improved modified extended tanh-function method", Journal of Optics, (2024) 1-12.