Journal Name:	**Physical Science International Journal**
Manuscript Number:	**Ms_PSIJ_47389**
Title of the Manuscript:	**Super-sech soliton dynamics in optical metamaterials with generally parabolic law of nonlinearity using Lagrangian Variational Method**
Type of the Article	*Original Research Article*

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.
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PART 1: Review Comments

	Reviewer's comment	Author's comment *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Compulsory REVISION comments	1. The LagrangianVariational Method of pulse width, amplitude, chirp and frequency should be incorporate into the study. 2. The literature review is poor and the authors should use updated references to define the novelty of their article clearly. 3. In results and discussion, the authors should discuss on their results deeply. 4. The authors should show the comparison between their results and previous works. 5. The following are the valuable studies to make the introduction section more concise to show the previous literature. Daniel, Y. S., Aziz, Z. A., Ismail, Z., & Salah, F. (2017). Effects of thermal radiation, viscous and Joule heating on electrical MHD nanofluid with double stratification. *Chinese Journal of Physics*, *55*(3), 630-651. Daniel, Y. S., & Daniel, S. K. (2015). Effects of buoyancy and thermal radiation on MHD flow over a stretching porous sheet using homotopy analysis method. *Alexandria Engineering Journal*, *54*(3), 705-712. Daniel, Y. S. (2016). Laminar convective boundary layer slip flow over a flat plate using homotopy analysis method. *Journal of The Institution of Engineers (India): Series E*, *97*(2), 115-121. Daniel, Y. S., Aziz, Z. A., Ismail, Z., & Salah, F. (2018). Effects of slip and convective conditions on MHD flow of nanofluid over a porous nonlinear stretching/shrinking sheet. *Australian Journal of Mechanical Engineering*, *16*(3), 213-229. Daniel, Y. S., Aziz, Z. A., Ismail, Z., & Salah, F. (2018). Impact of thermal radiation on electrical MHD flow of nanofluid over nonlinear stretching sheet with variable thickness. *Alexandria Engineering Journal*, *57*(3), 2187-2197. Daniel, Y. S. (2015). Steady MHD laminar flows and heat transfer adjacent to porous	1- The variational equations are presented in (3.6). The different paramaters (amplitude, pulse width, center position, chirp, frequency and phase) are represented in section 4. 2-We have added as much as possible the introduction. You could notice it in the introduction. 3- Already done in the manuscipt. 4- Already done in the manuscipt. 5- The different articles made available to us have allowed us to complete the bibliographic review and will be useful in our next works.

stretching sheets using HAM. *American Journal of Heat and Mass Transfer*, *2*(3), 146-159.

Daniel, Y. S., Aziz, Z. A., Ismail, Z., & Salah, F. (2017). Entropy analysis in electrical magnetohydrodynamic (MHD) flow of nanofluid with effects of thermal radiation, viscous dissipation, and chemical reaction. *Theoretical and Applied Mechanics Letters*, *7*(4), 235-242.

Daniel, Y. S., Aziz, Z. A., Ismail, Z., & Salah, F. (2017). Numerical study of Entropy analysis for electrical unsteady natural magnetohydrodynamic flow of nanofluid and heat transfer. *Chinese Journal of Physics*, *55*(5), 1821-1848.

Daniel, Y. S. (2016). Steady MHD boundary-layer slip flow and heat transfer of nanofluid over a convectively heated of a non-linear permeable sheet. *Journal of Advanced Mechanical Engineering*, *3*(1), 1-14.

Daniel, Y. S. (2017). MHD laminar flows and heat transfer adjacent to permeable stretching sheets with partial slip condition. *Journal of Advanced Mechanical Engineering*, *4*(1), 1-15.

Daniel, Y. S. (2015). Presence of heat generation/absorption on boundary layer slip flow of nanofluid over a porous stretching sheet. *American Journal of Heat and Mass Transfer*, *2*(1), 15-30.

Daniel, Y. S., Aziz, Z. A., Ismail, Z., & Salah, F. (2017). Double stratification effects on unsteady electrical MHD mixed convection flow of nanofluid with viscous dissipation and Joule heating. *Journal of Applied Research and Technology*, *15*(5), 464-476.

Daniel, Y. S., Aziz, Z. A., Ismail, Z., & Salah, F. (2018). Thermal stratification effects on MHD radiative flow of nanofluid over nonlinear stretching sheet with variable thickness. *Journal of Computational Design and Engineering*, *5*(2), 232-242

Minor REVISION comments		
Optional/General comments		

SDI Review Form 1.6

PART 2:

	Reviewer's comment	Author's comment*(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	