

Review of: "A connection between Gompertz diffusion model and Vasicek Interest Rate model"

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Potential competing interests: No potential competing interests to declare.

There are several grammatical mistakes; I recommend revising the whole work for grammatical errors. I also recommend rephrasing poor sentences in the abstract and introduction sections.

I recommend including the significance of the work in the introduction section clearly. Also, revise the poor sentences of the introduction section for the readers.

Rephrase the captions of the figures where needed and make them more meaningful.

Improve the introduction section with the following related work:[Optimization of the fractional-order parameter with the error analysis for human immunodeficiency virus under Caputo operator](#), [Magnetohydrodynamic thin film flow through a porous stretching sheet with the impact of thermal radiation and viscous dissipation](#), [Dynamical analysis, infections in plants, and preventive policies utilizing the theory of fractional calculus](#), [Bioconvection due to gyrotactic microorganisms in couple stress hybrid nanofluid laminar mixed convection incompressible flow with magnetic nanoparticles and chemical reaction ...](#)

There are typos and punctuation errors; I recommend checking the overall work for typos and punctuation errors, especially in the mathematical work.

Improve the paper by including the following work:[Chaotic phenomena and oscillations in dynamical behaviour of financial system via fractional calculus](#), [Analysis of the dynamics of a vector-borne infection with the effect of imperfect vaccination from a fractional perspective](#)

I suggest checking the conclusion section for poor sentences and suggesting to include future work if possible.

I also recommend checking that all the references are cited in the work and are in a uniform style.

Remark: The above major changes and modification.