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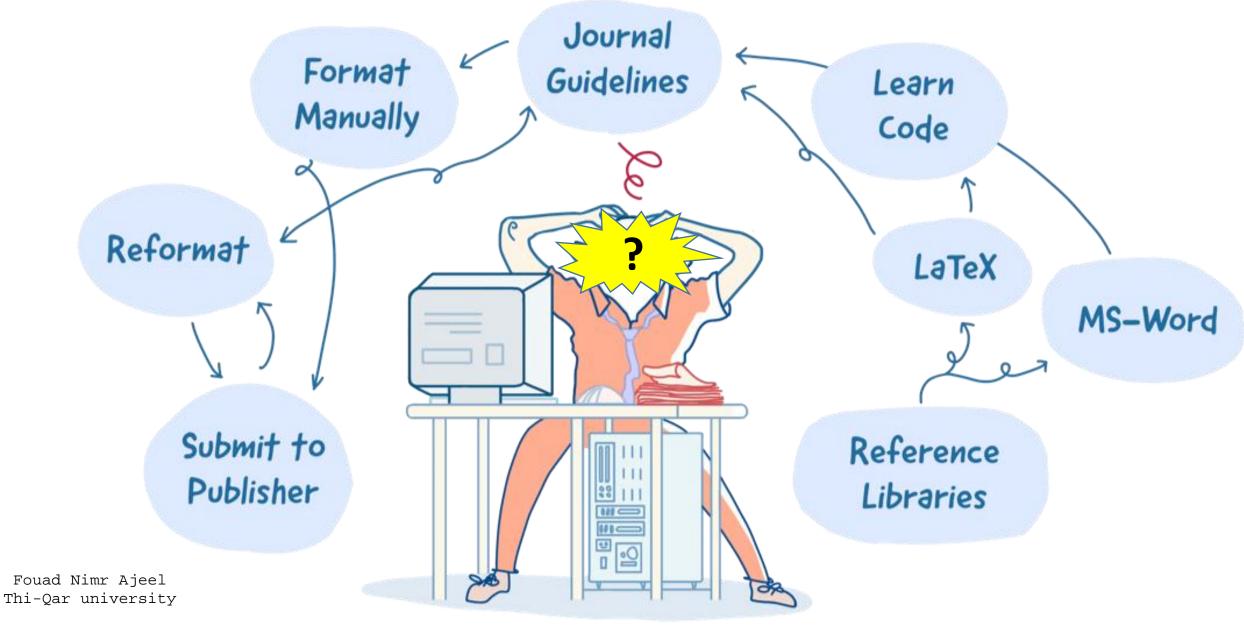
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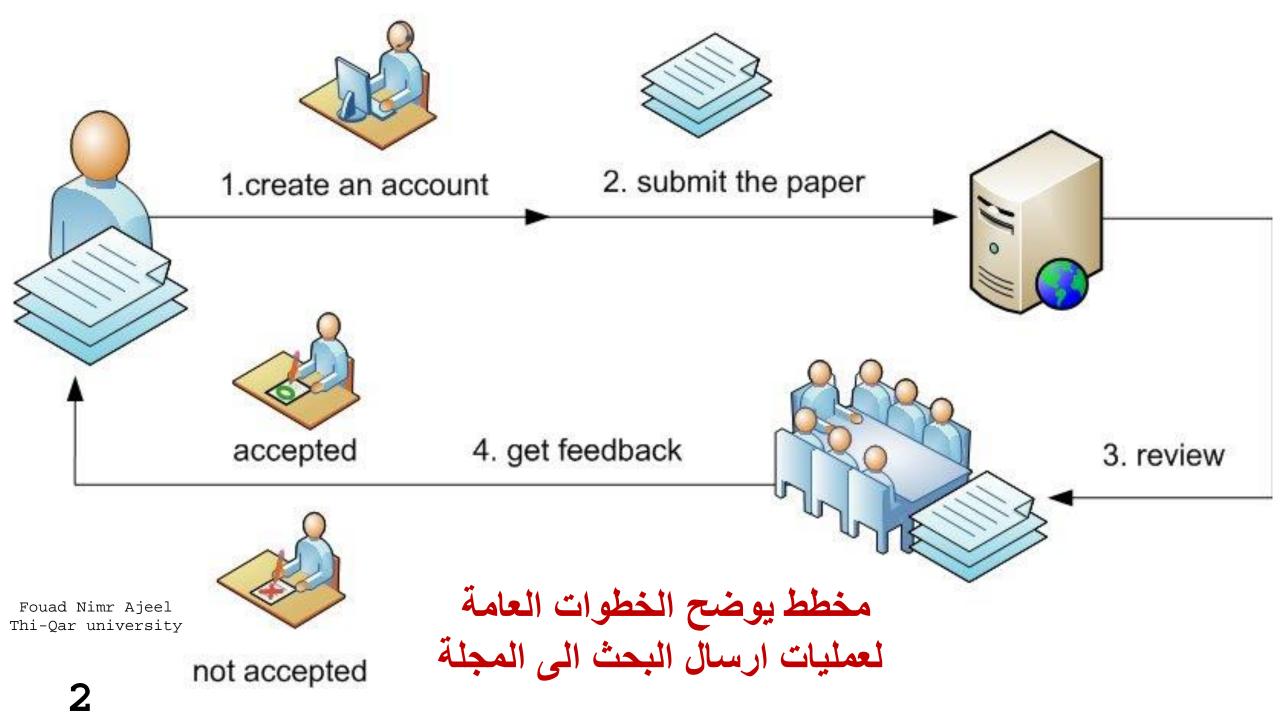


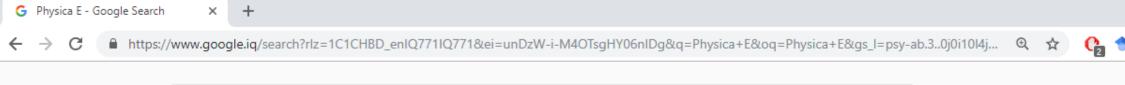
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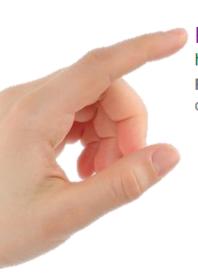
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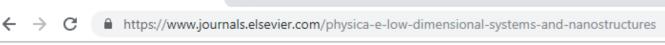
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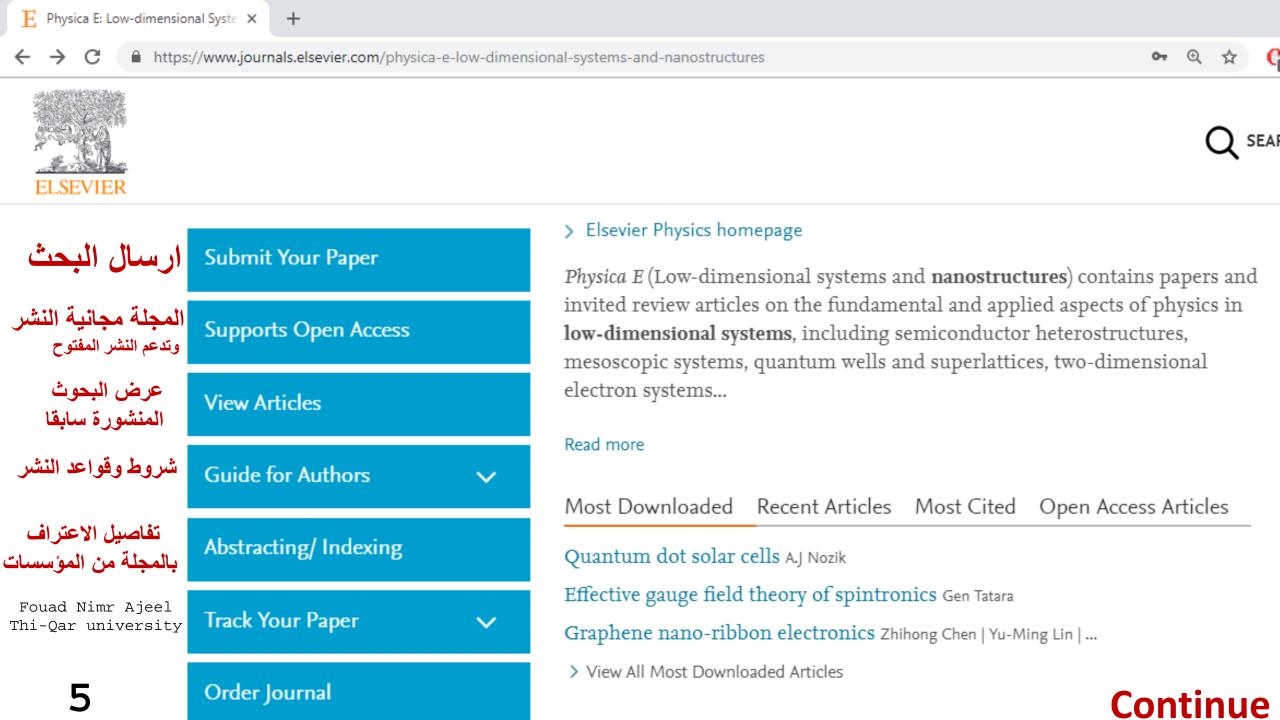
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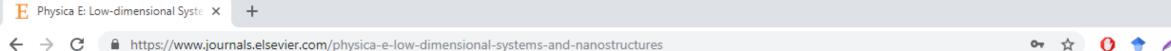
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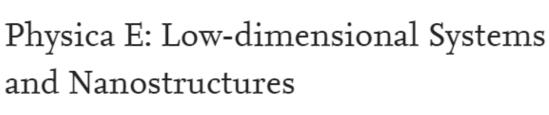












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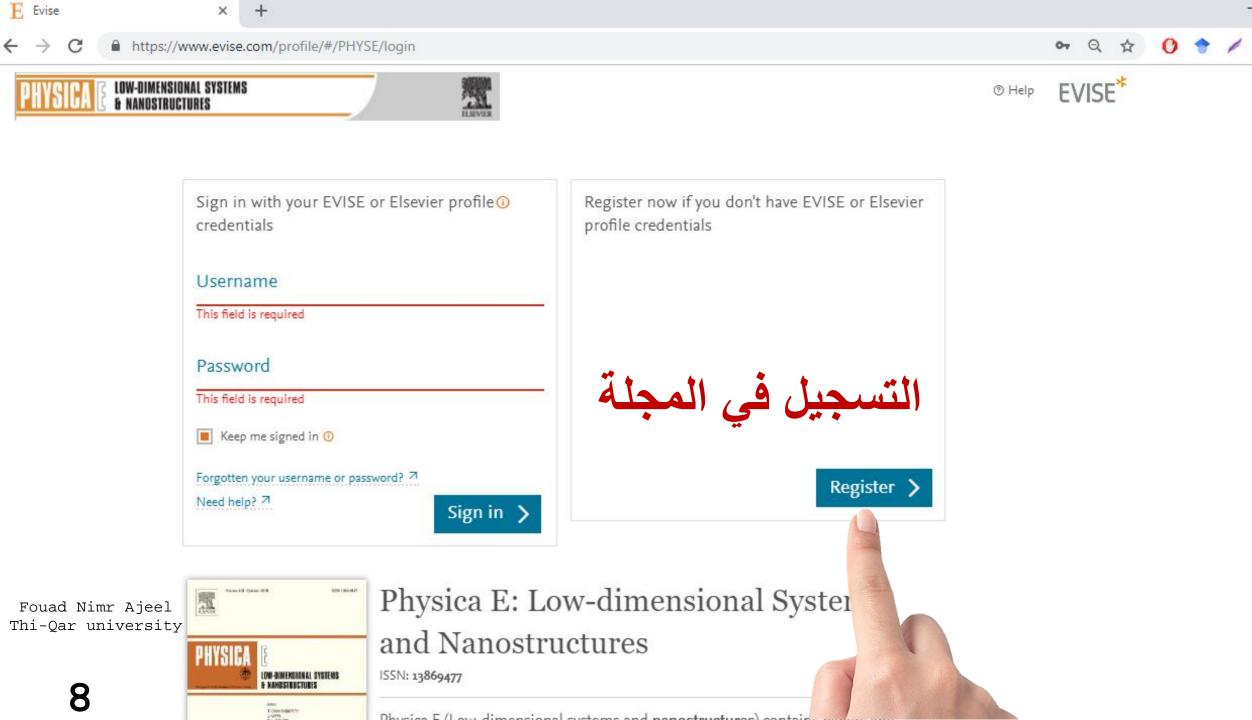
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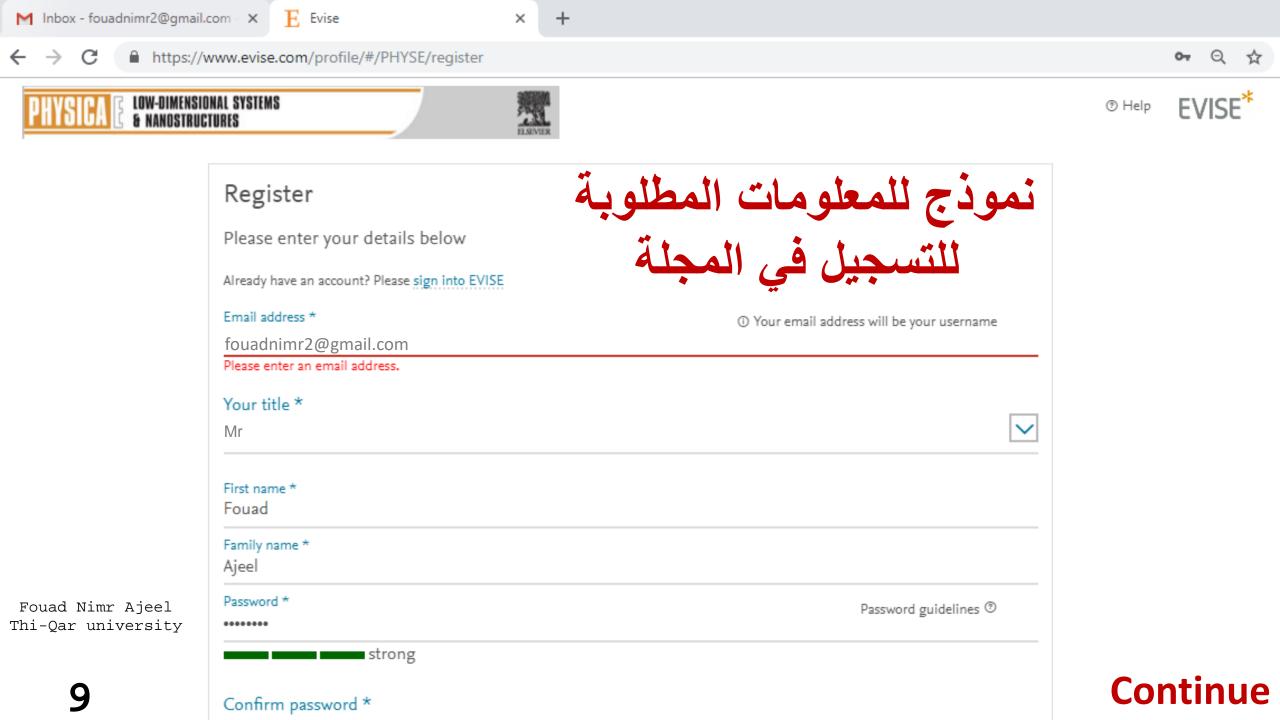
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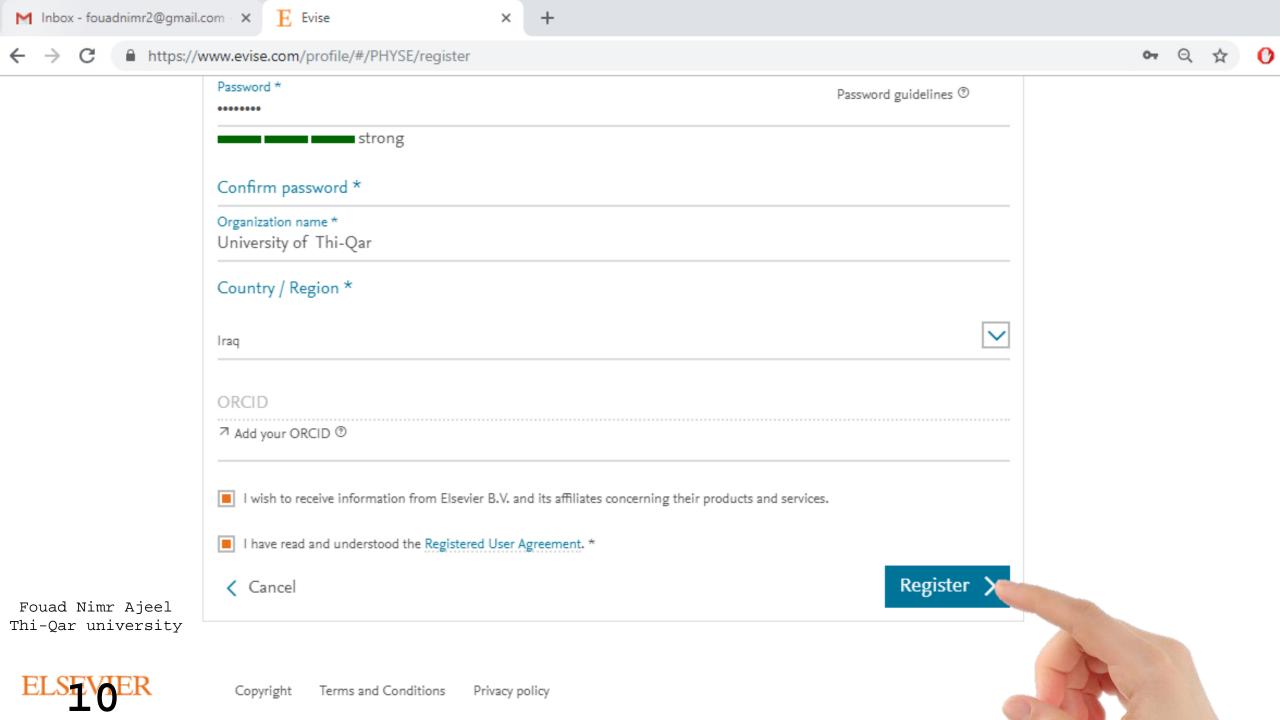


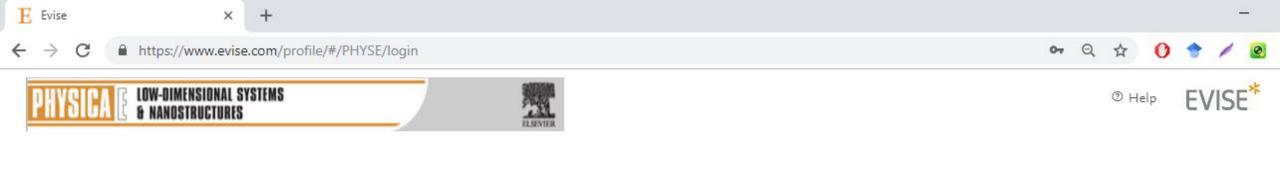
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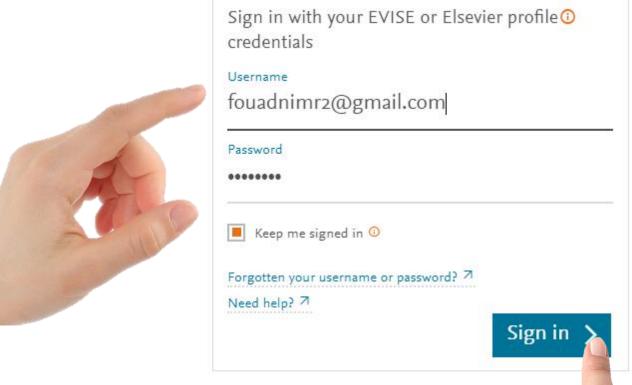












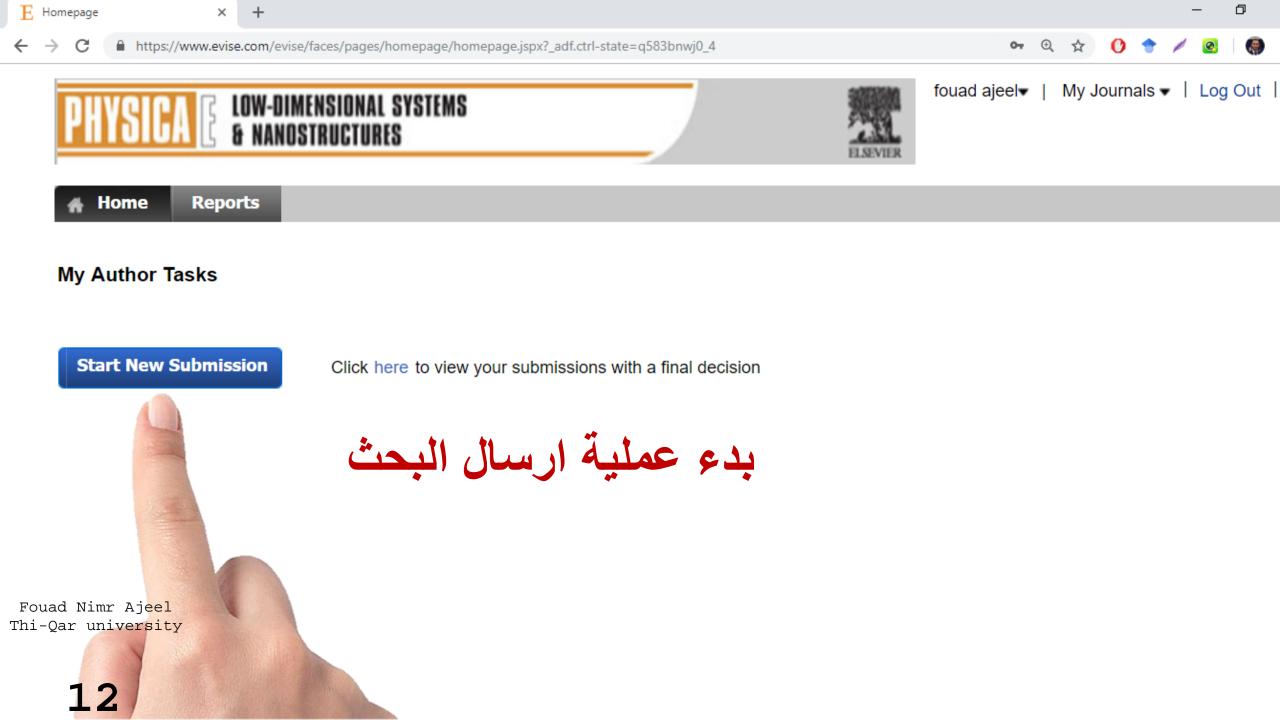
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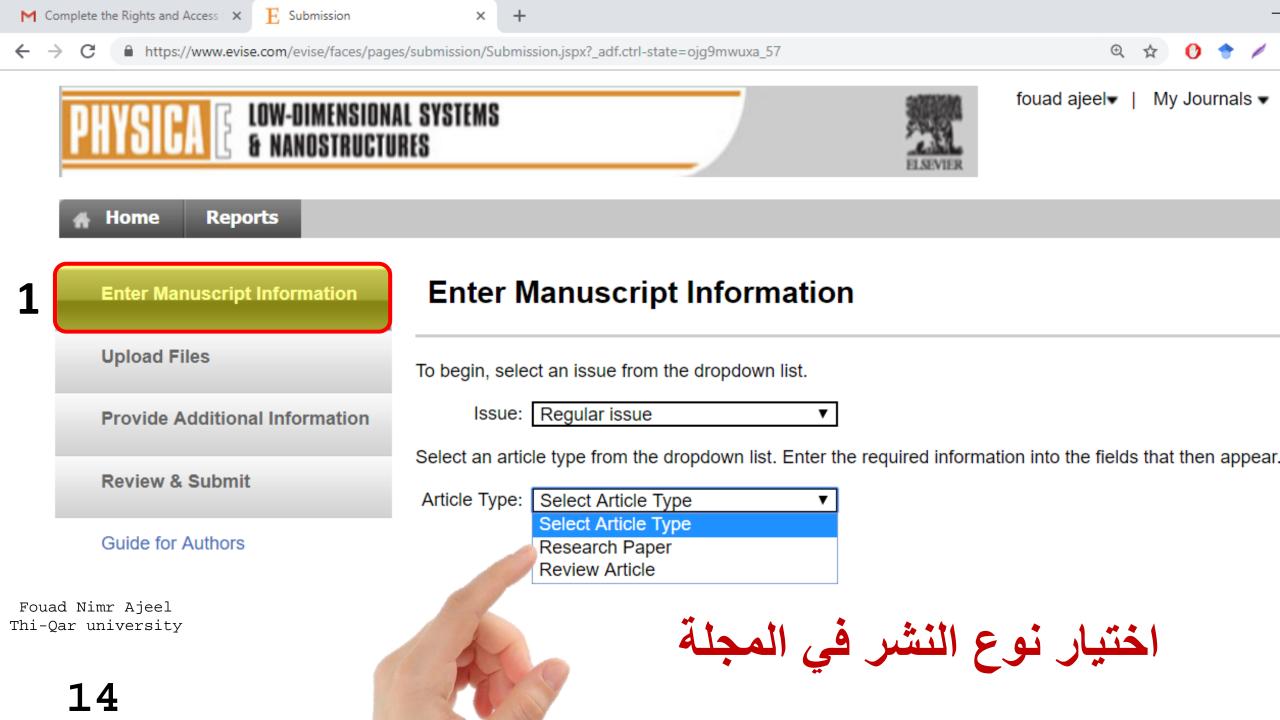


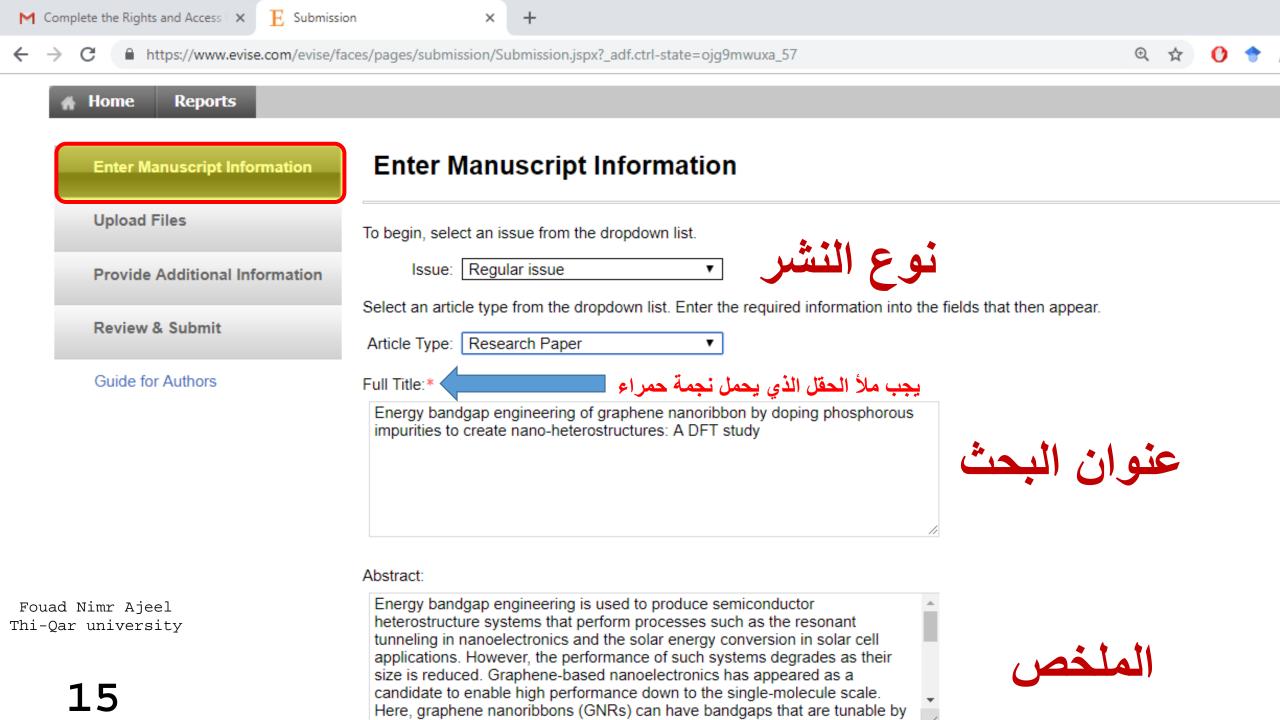
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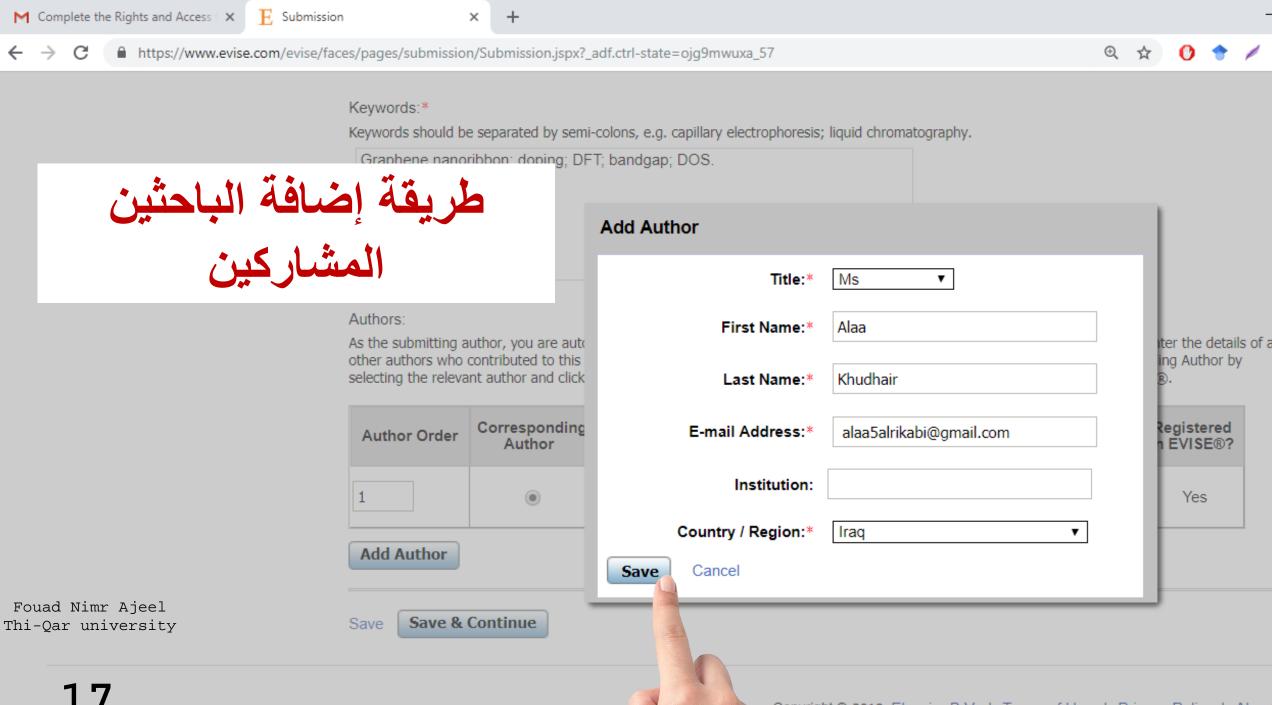
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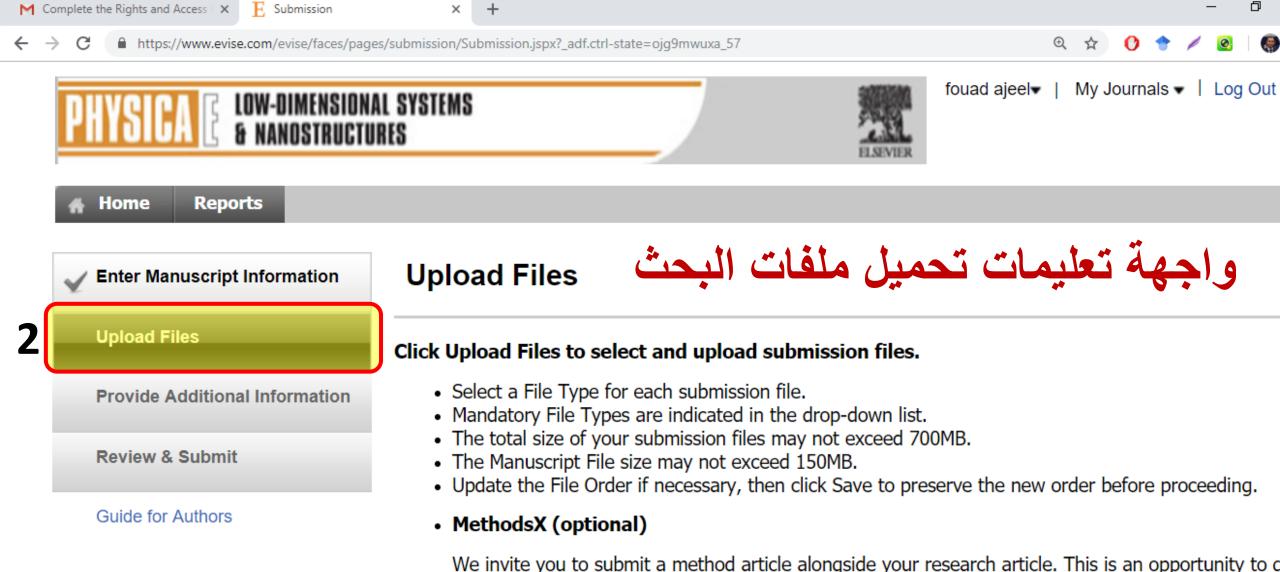
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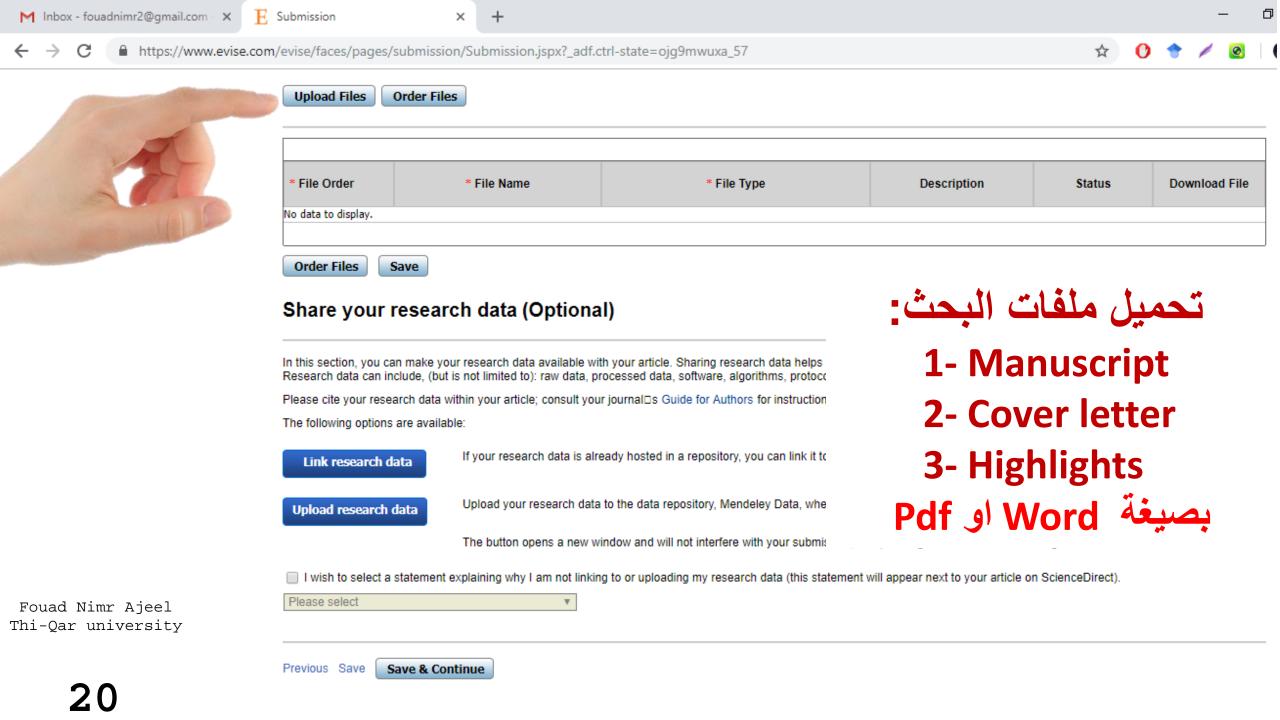
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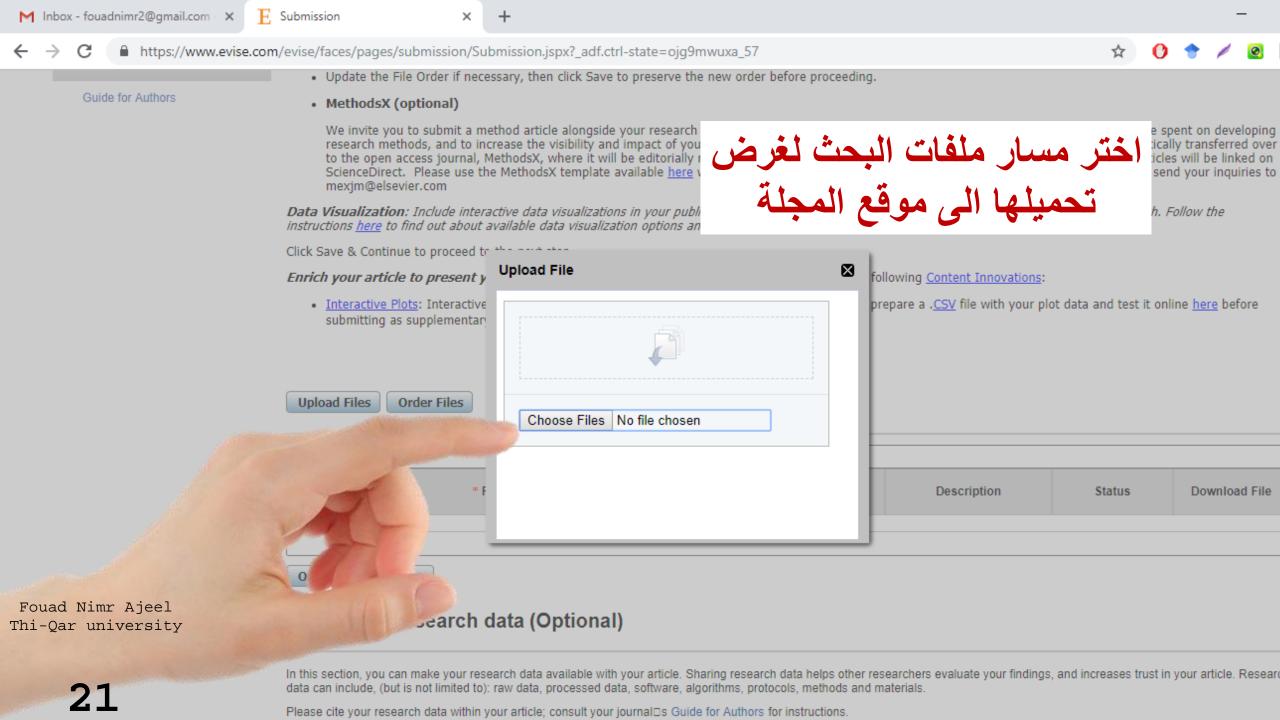
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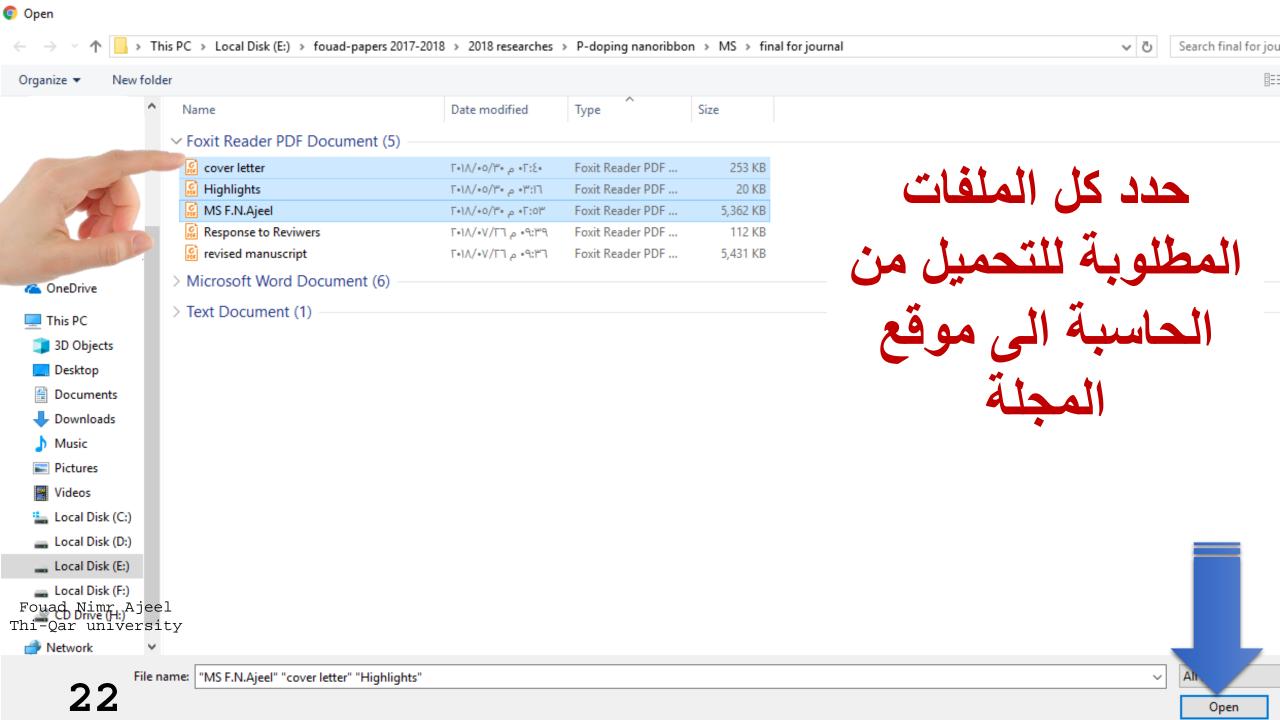
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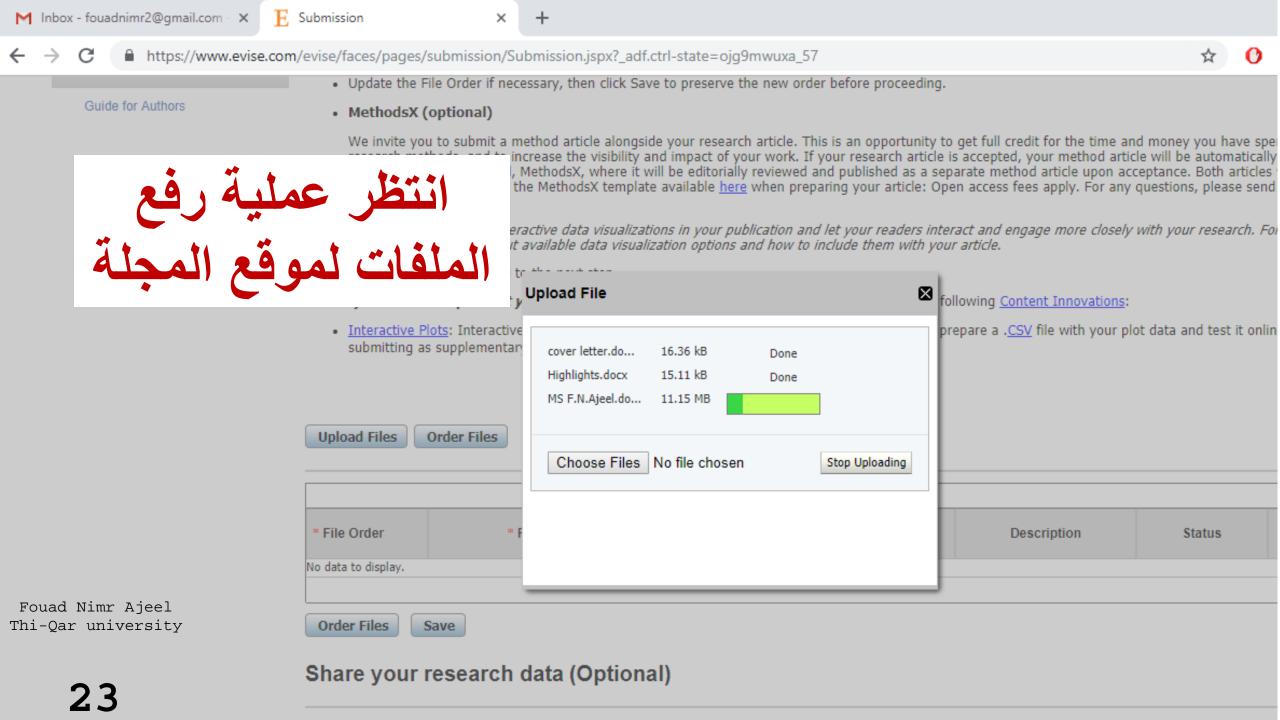
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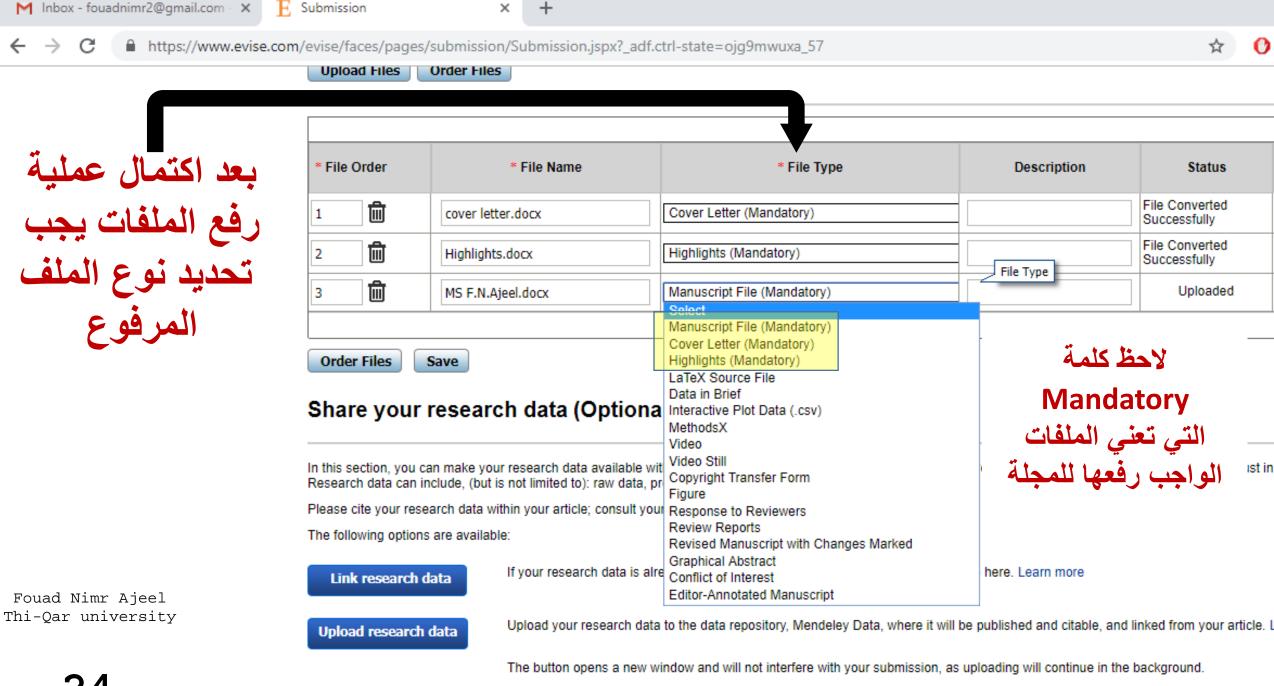
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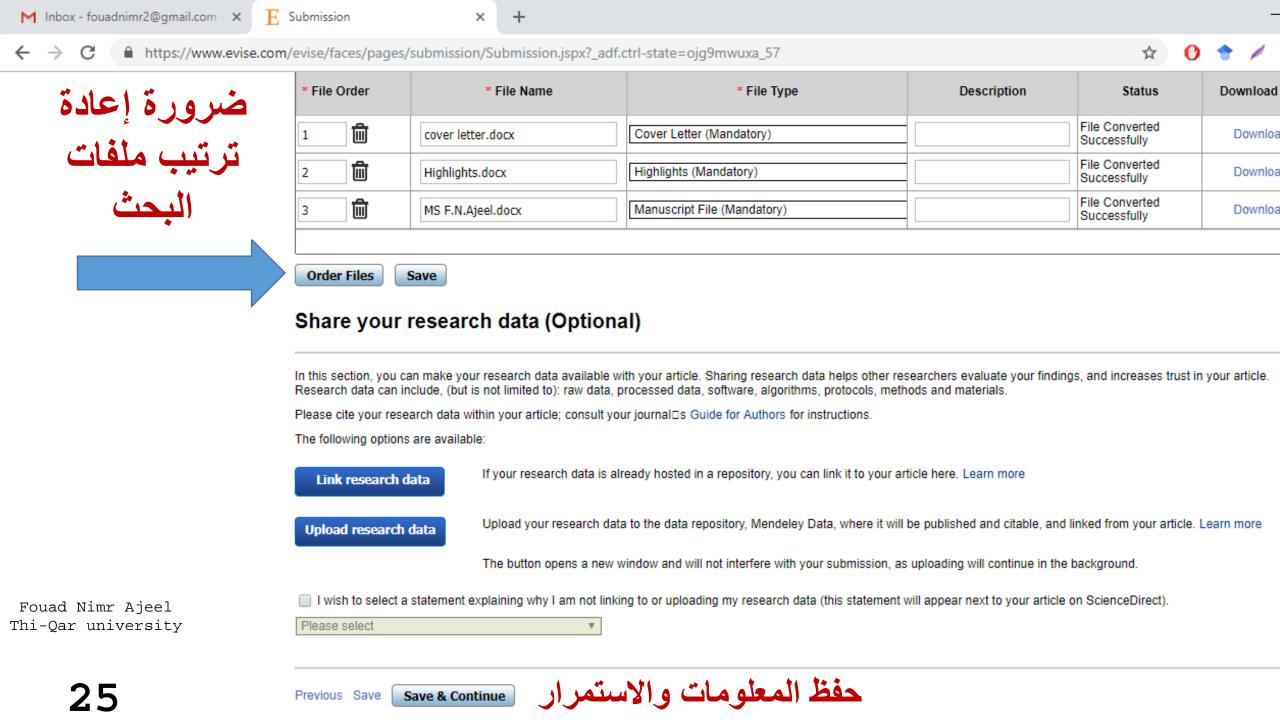


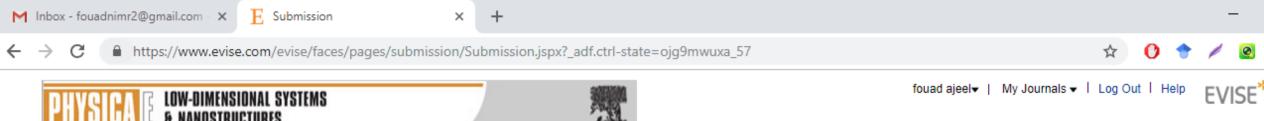






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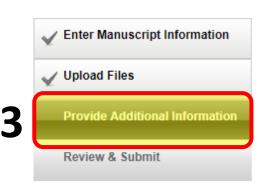








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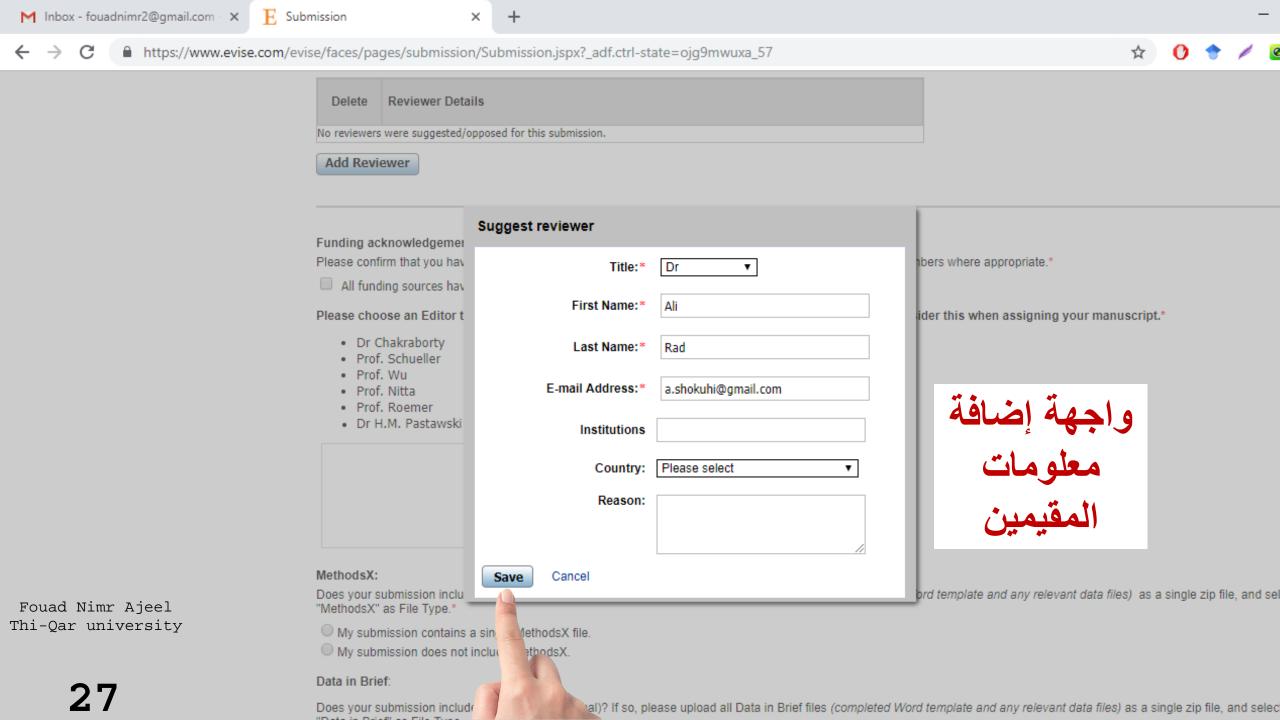
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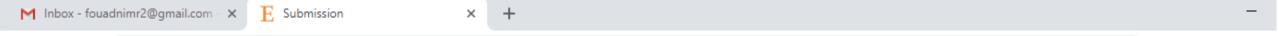
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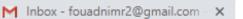
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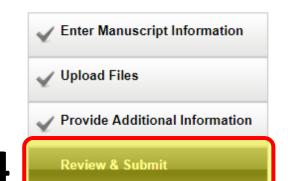






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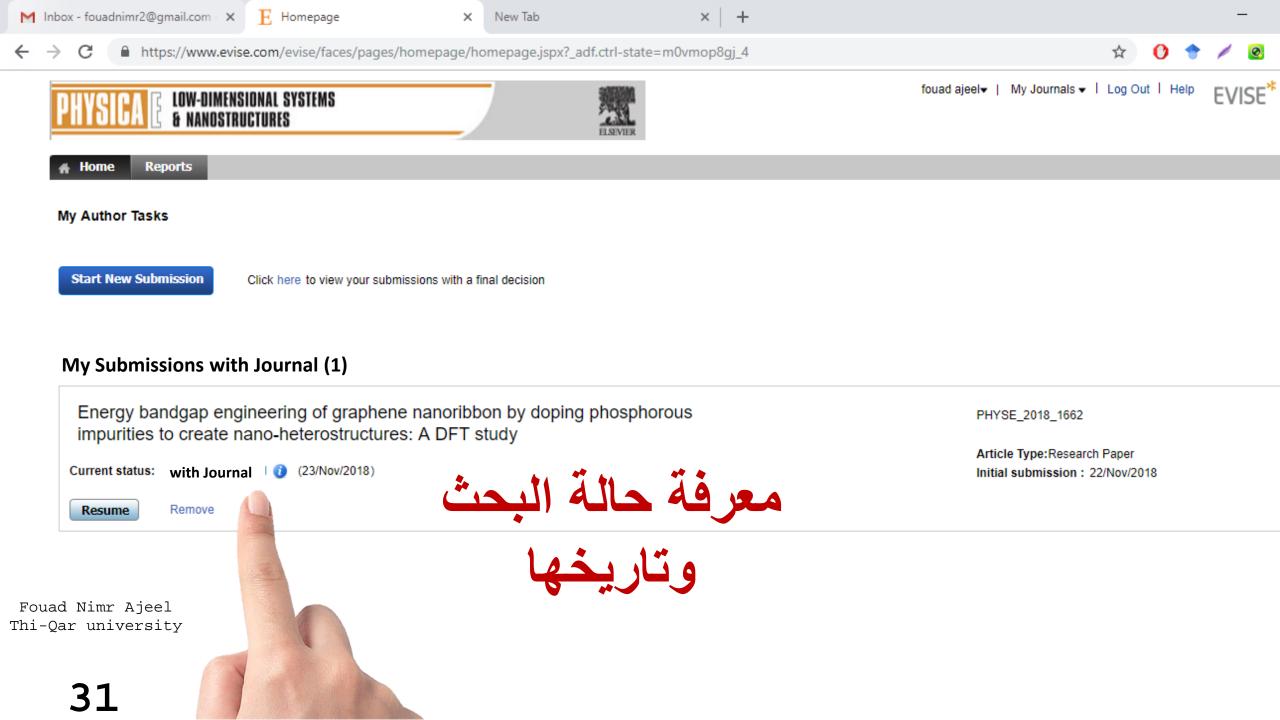
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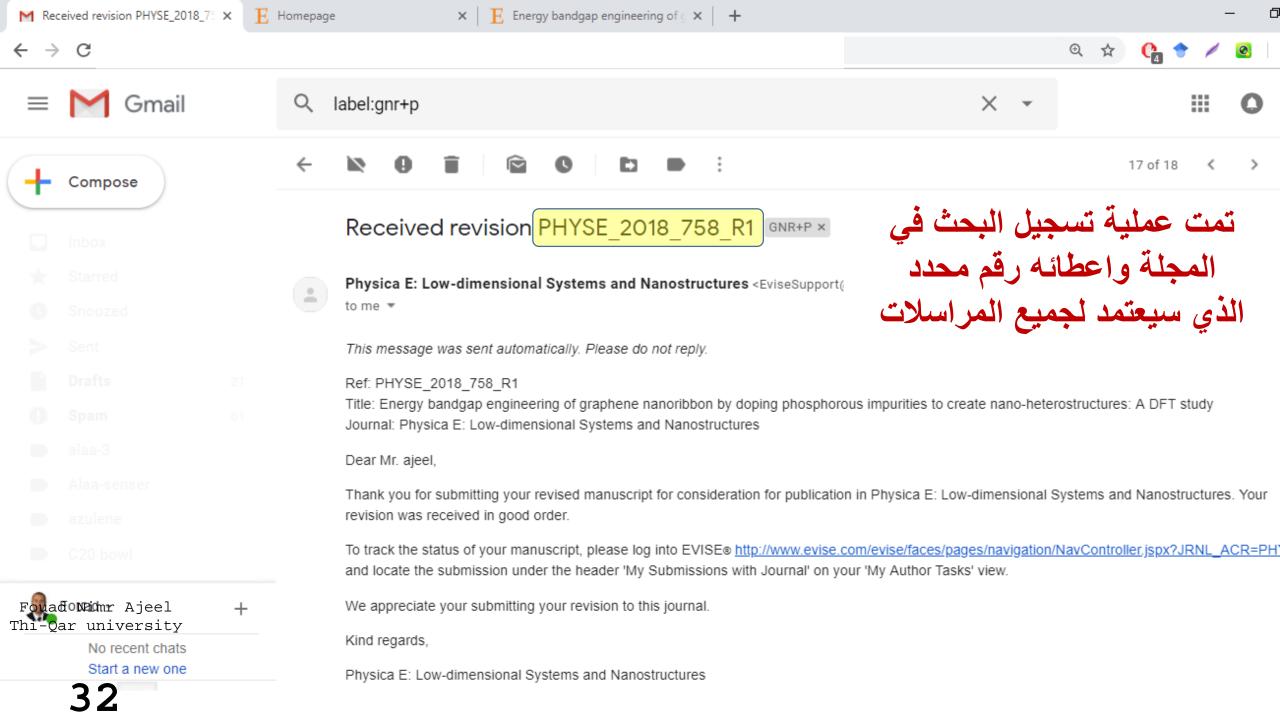
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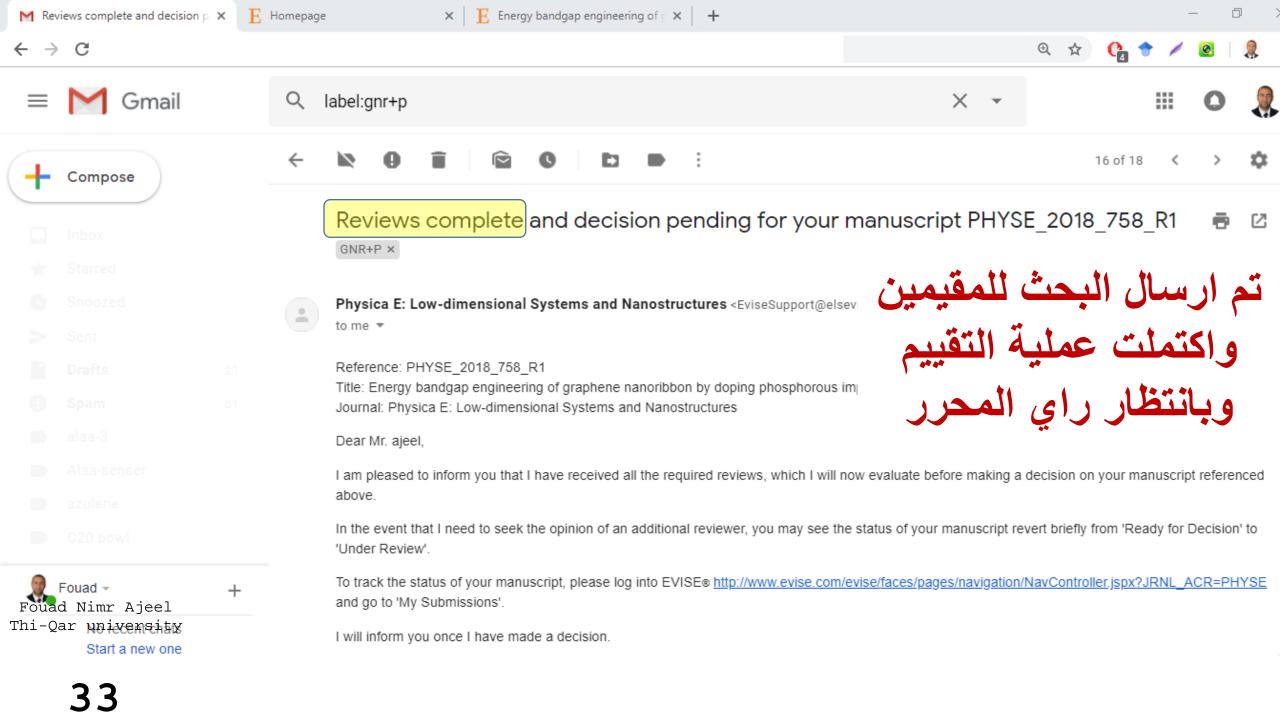
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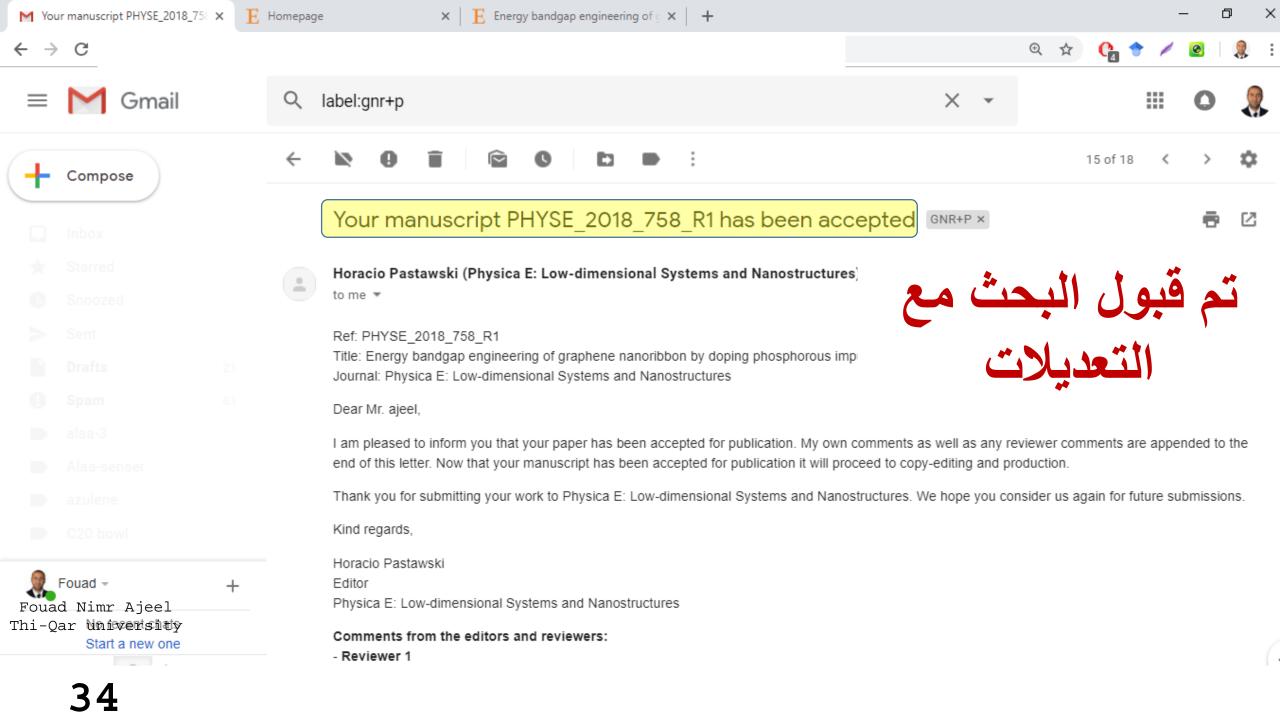


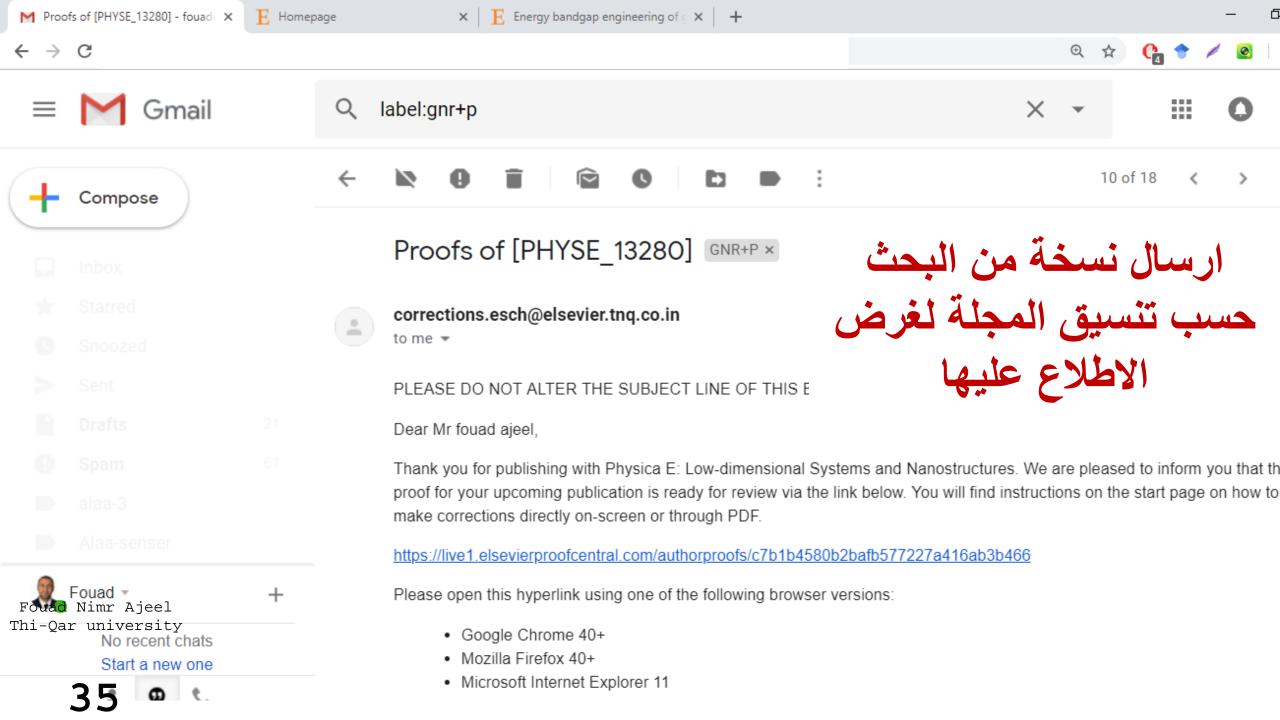
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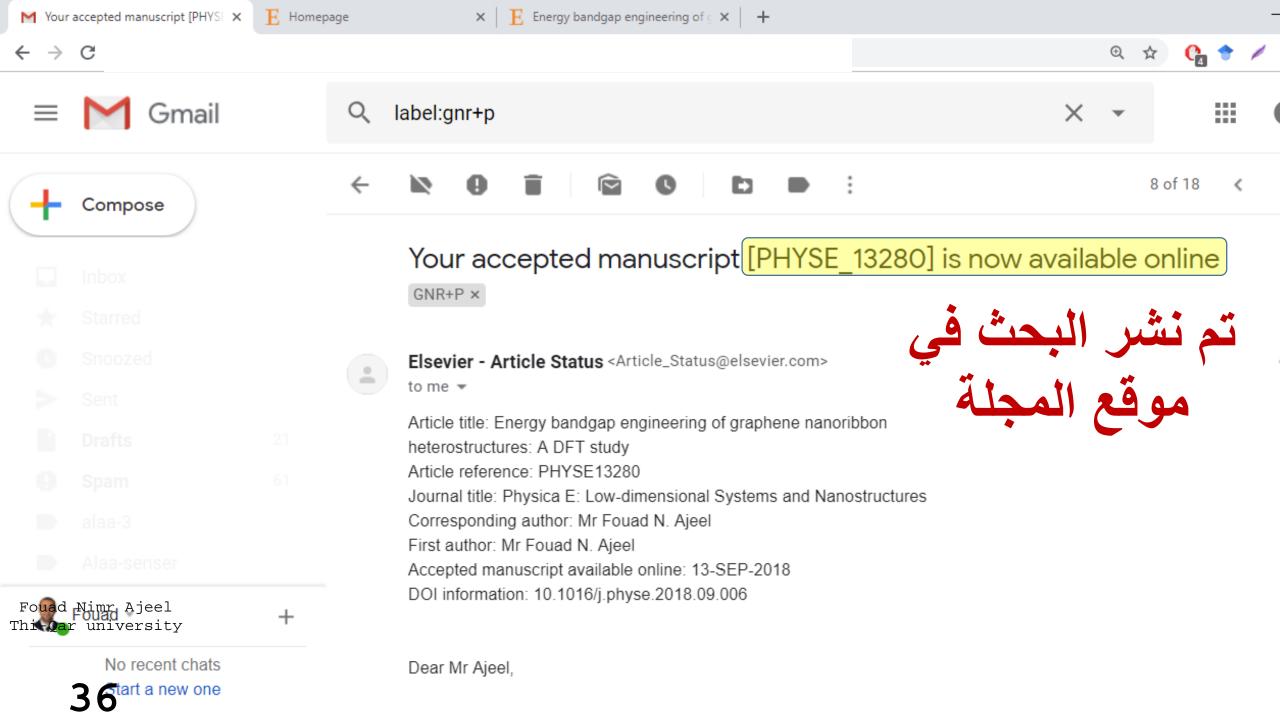


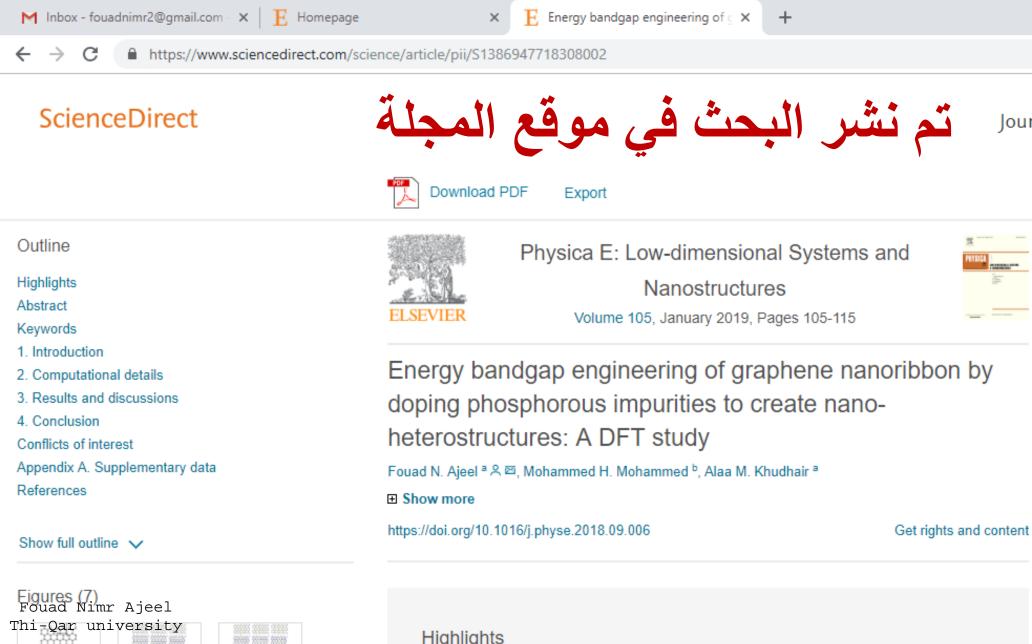












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Fouad N. Ajeel<sup>a,\*</sup>, Mohammed H. Mohammed<sup>b</sup>, Alaa M. Khudhair<sup>a</sup>

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Energy bandgap engineering is used to produce semiconductor heteros form processes such as the resonant tunneling in nanoelectronics and the solar energy ar cell applications. However, the performance of such systems degrades as their size is reduced. nanoelectronics has appeared as a candidate to enable high performance down to the s graphene nanoribbons (GNRs) can have bandgaps that are tunable by using chemical ave been predicted that bandgap engineering within a GNR may be achieved by varying the number and generical pattern of phosphorus (P) impurities in the GNS, so that we have carried out first-principles calculations of the energetic

<sup>&</sup>lt;sup>a</sup> Department of Physics, College of Science, University of Thi Qar, Nassiriya 64000, Iraq

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