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By: Bahar, MK (Bahar, Mustafa Kemal) ^[1]

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Abstract:

The present work considers an endohedrally encapsulated guest Li atom immersed in a nonideal classical plasma under a spherical encompassment. In this combined system, the Woods-Saxon potential is used as the model for endohedral fullerene (EF), while the model potential approach is employed for the Li atom. The relevant wave equation is solved by the tridiagonal matrix method. The energy states, oscillator strengths, dipole polarizabilities, orbital charge-currents and induced magnetic fields of the Li@C-n, system are examined in detail for both structural effects and plasma shielding effects. The combined system under consideration and the corresponding investigations have never been reported in the literature before. Various types of EFs can be synthesized experimentally. However, considering the fact that experimental production is still in its infancy, the necessity of a great number of theoretical studies becomes clearer. The most important expectation in this work is to establish a tuning mechanism thanks to elucidating the effect of the structural specifications of EFs on the mentioned atomic properties as well as the functionality of the plasma shielding effect, which we believe is provided. All parameter values in this work are experimentally achievable. Both special data values and data ranges, which causes remarkable features for the system, are determined. By examining these data, the alternatives of the parameters to each other for the purpose-oriented functions are also analyzed.

Keywords

Keywords Plus: HYDROGEN-ATOM; ENERGY; STATES; PHOTOIONIZATION; CARRIER

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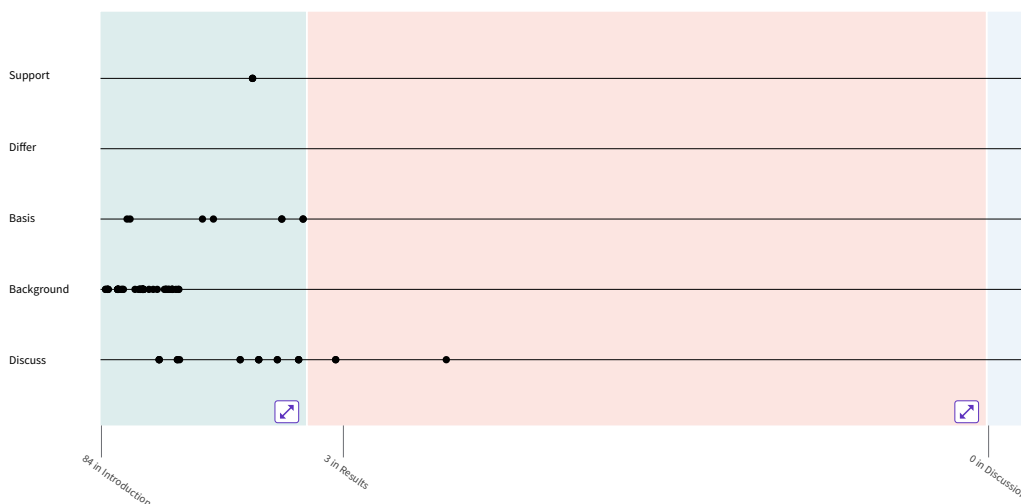
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