

## Zinc Oxide Properties Under Different Conditions of Pressure and Temperatures.

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## Abstract:

Zinc oxide semiconductor is a guaranteed material because of its properties among ionic and covalent band. In this work we research sub-atomic elements and dl\_poly\_4 programming to dissect the band conduct under the impact of weights and temperatures. Our framework made out of 2916 iotas in a reproduction box of 9x9x9 measurement. The scope of weight is 0-200GPa and for temperature is 300-3000K, we will contemplate the variety of the separation between ZnO molecules. Our outcomes are in concurrence with the accessible information because of no more data under past conditions. This outcome is significant in nanosacle and macroscale particularly in industry field and geophysics.

## Biography:

Yahia CHERGUI is a lecturer in Electrical & Electronics Engineering Institute, Boumerdes Algeria. He has completed his PhD from Badji Mokhtar University in Annaba, Algeria. He did all his PhD work in Cardiff University in UK. His research field is Physics(condensed matter, simulation by molecular dynamics). He is a lecturer in Boumerdes University( Electrical & Electronics Engineering Institute) since 2012. He has many published articles and international conferences. He has been serving as a referee with condensed matter journal (IOP), Energy journal (Elsevier), and recently accepted to be a reviewer



of American Journal of Modern Physics. He is an academic member of the Athens Institute for Education and Research belonging to Physics Unit.

## Publication of speakers:

- Determination of organic solar cell parameters based on single or multiple pin structures N Nehaoua, Y Chergui, DE Mekki Vacuum 84 (2), 326-329
- Comparative study of dye-sensitized solar cell based on ZnO and TiO2 nanostructures Y Chergui, N Nehaoua, DE Mekki Solar Cells-Dye-Sensitized Devices

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