

11.3 Ionization Energy (Video)

This project was preformed to supply **Libretext Authors** with videos on General Chemistry topics which can be used to enhance their projects. Also, these videos are meant to act as a learning resource for **all General Chemistry students**.

Video Topics

The ionization energy is the energy needed to remove an electron from an atom in the gas phase. The first ionization energy, I_1 , is the energy required to remove an electron from a neutral atom in its ground state. The second ionization energy, I_2 , is the energy needed to strip an electron from a gaseous ion with a charge of $1+$. It is possible keep removing electrons to produce a third, fourth etc. Ionization energies. Each succeeding ionization requires more energy. For the second ionization you are removing a negatively charged e^- from a positive charge. In general, as Z_{eff} increases there is stronger interaction between the nucleus and the electrons. This means as Z_{eff} increases the ionization energy also increases.

Link to Video

Ionization Energy: <https://youtu.be/k7j-u02ifzo>



Attribution

- Prof. Steven Farmer (Sonoma State University)

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